

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039046.D
 Acq On : 13 May 2022 21:06
 Operator : SY/AP
 Sample : N2812-02DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: May 14 00:54:45 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	949269	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2545511	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2116249	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1589891	9.49	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

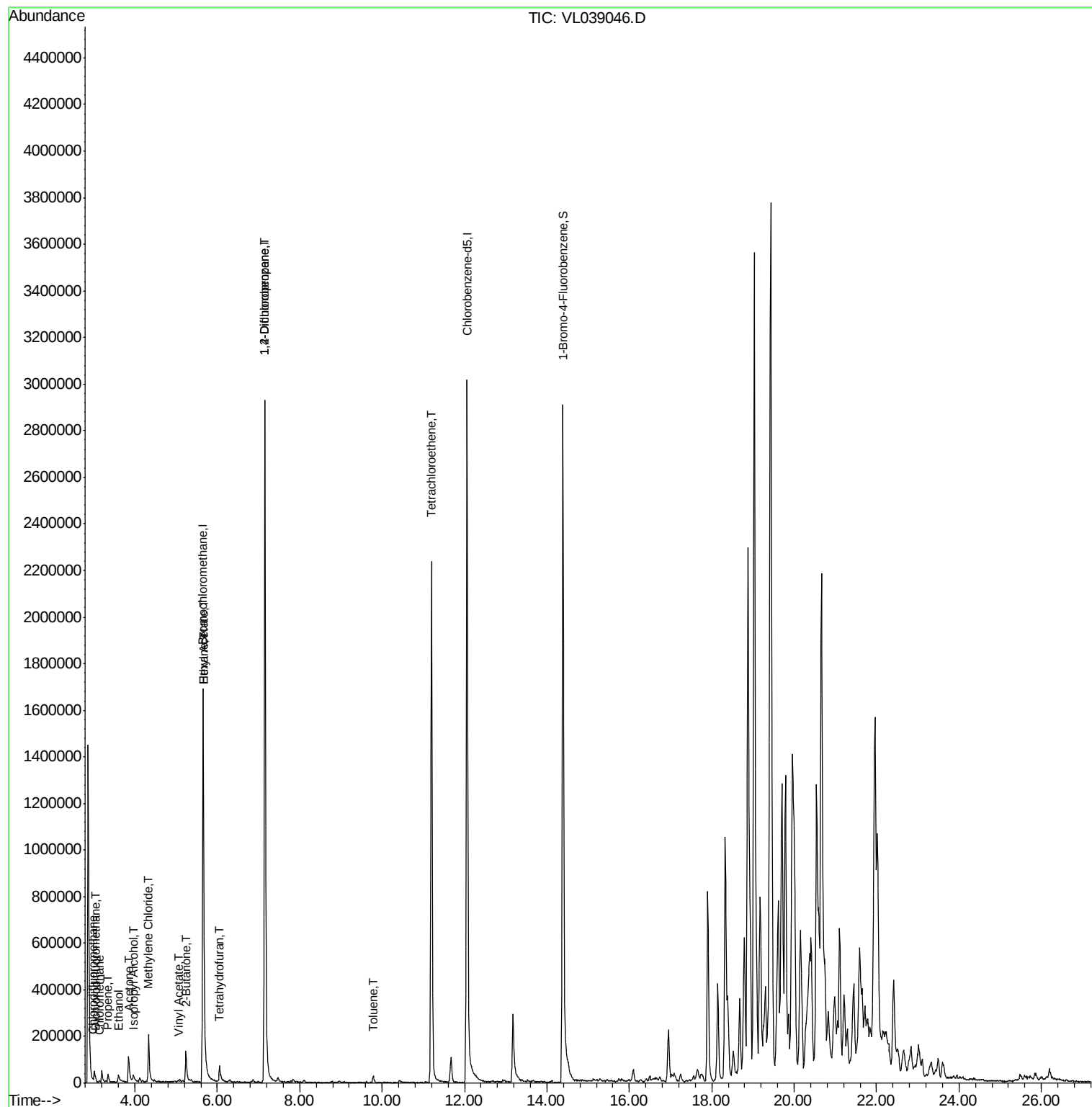
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	8368	0.056 ppbv #	77
3) Chlorodifluoromethane	2.98	51	17562	0.149 ppbv #	76
4) Chloromethane	3.14	50	3990	0.068 ppbv #	81
9) Propene	3.35	41	7516	0.146 ppbv	96
13) Ethanol	3.60	45	22747	6.249 ppbv #	50
15) Acetone	3.84	43	142967	1.597 ppbv	97
19) Isopropyl Alcohol	3.96	45	15798	0.371 ppbv #	95
20) Methylene Chloride	4.33	84	46886	1.389 ppbv	85
23) Vinyl Acetate	5.06	43	4549	0.064 ppbv #	86
25) Ethyl Acetate	5.67	43	63595	0.297 ppbv #	78
26) Hexane	5.67	57	96321	1.011 ppbv #	40
34) 2-Butanone	5.24	43	183073	1.410 ppbv	93
39) 1,2-Dichloropropane	7.15	63	629961	7.432 ppbv #	25
41) Tetrahydrofuran	6.04	42	8473	0.097 ppbv #	36
52) Tetrachloroethene	11.20	164	587276	7.544 ppbv	97
53) Toluene	9.77	91	7629	0.031 ppbv #	21

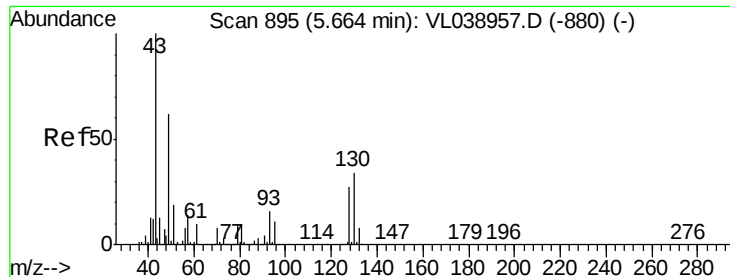
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-2DL

Acq: 13 May 2022 21:00

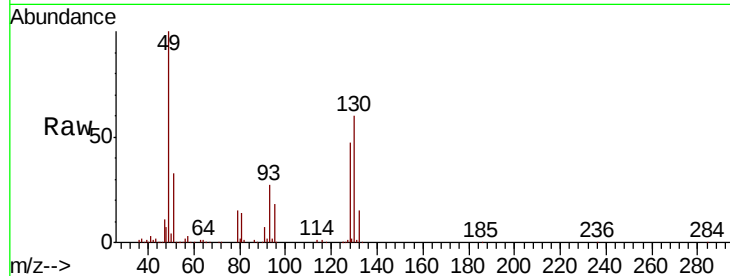
Tot Ion: 49 Resp: 949269

Ion Ratio Lower Upper

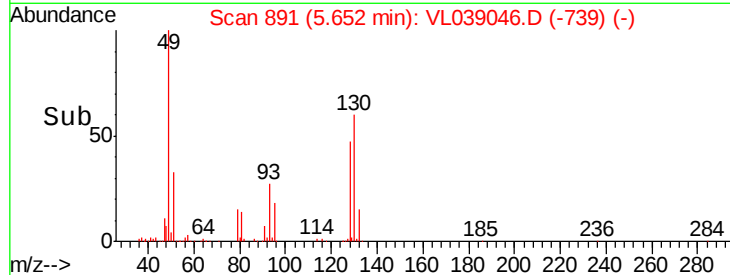
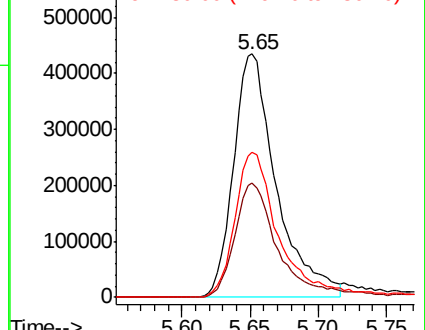
49 100

128 47.9 23.3 69.8

130 63.7 29.8 89.3



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



#2

Dichlorodifluoromethane

Concen: 0.056 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL039046.D

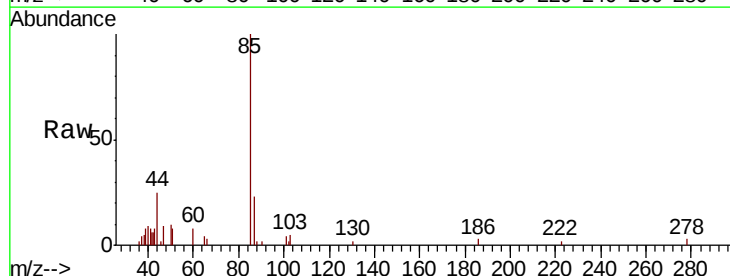
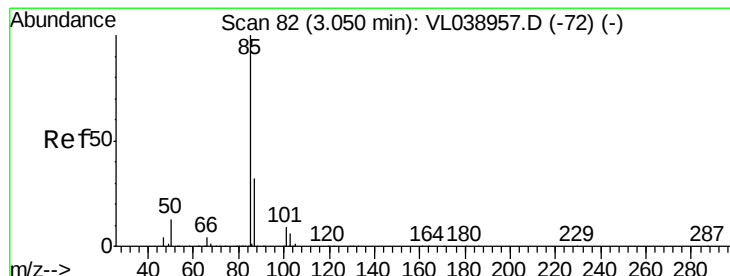
Acq: 13 May 2022 21:06

Tgt Ion: 85 Resp: 8368

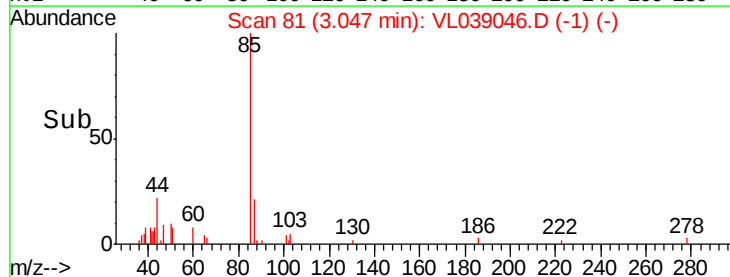
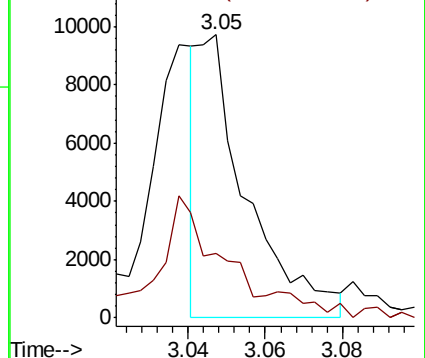
Ion Ratio Lower Upper

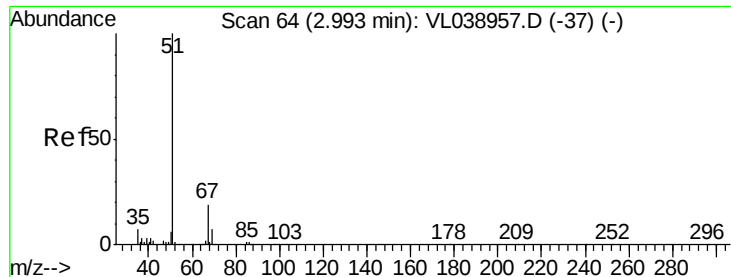
85 100

87 19.1 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.149 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

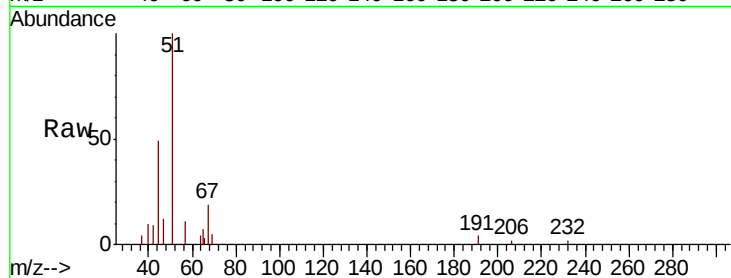
Acq: 13 May 2022 21:00

Tot Ion: 51 Resp: 17562

Ion Ratio Lower Upper

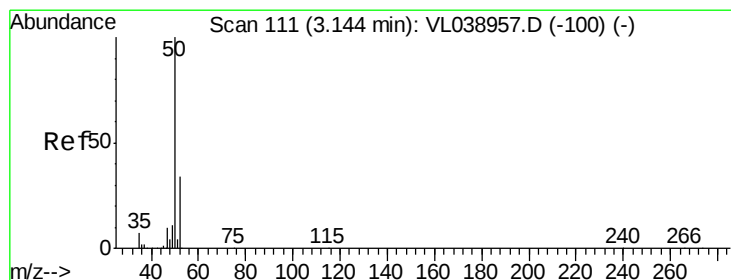
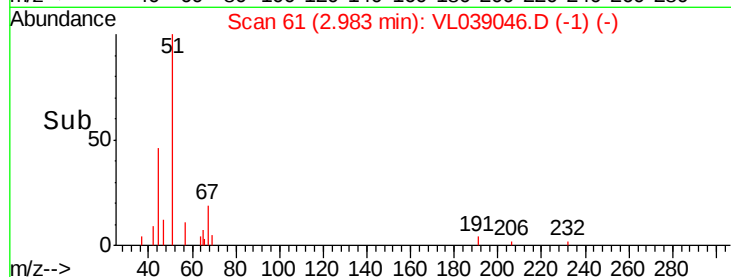
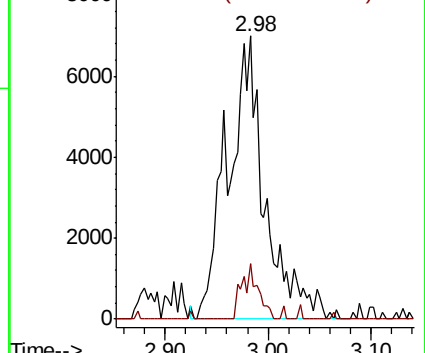
51 100

67 8.6 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.068 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL039046.D

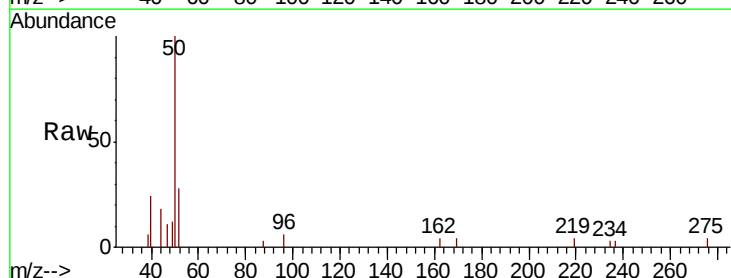
Acq: 13 May 2022 21:06

Tgt Ion: 50 Resp: 3990

Ion Ratio Lower Upper

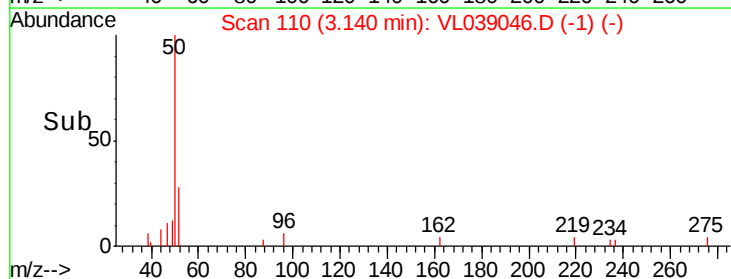
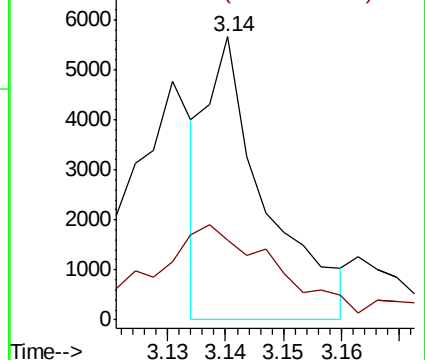
50 100

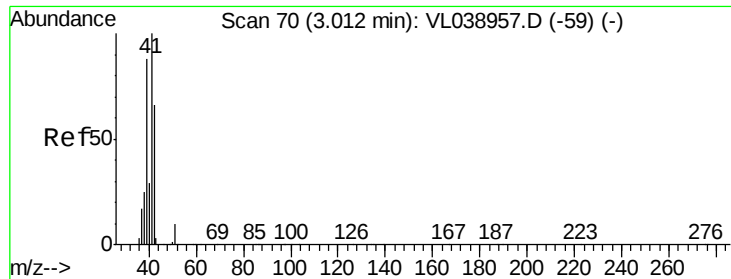
52 23.4 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

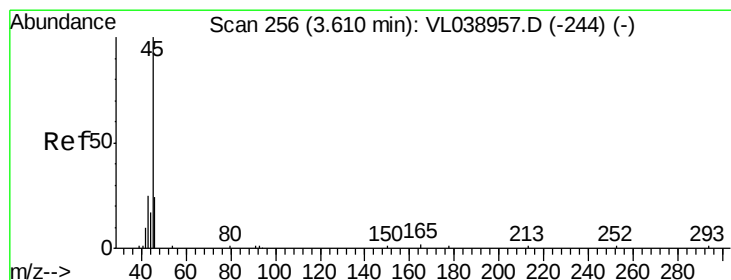
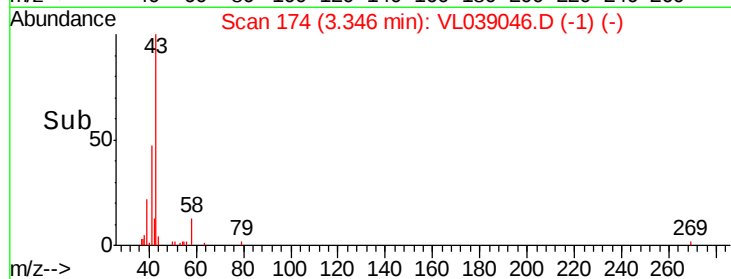
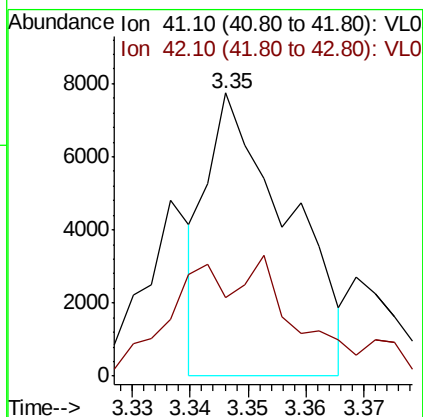
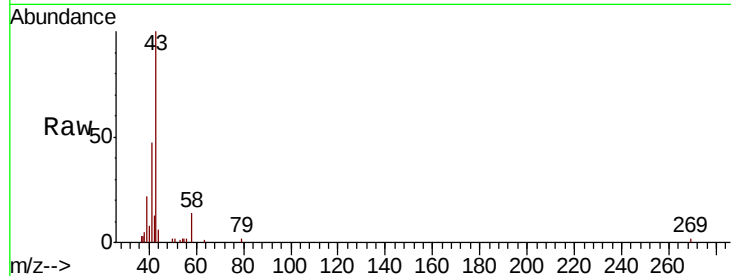
Ion 52.10 (51.80 to 52.80): VL0





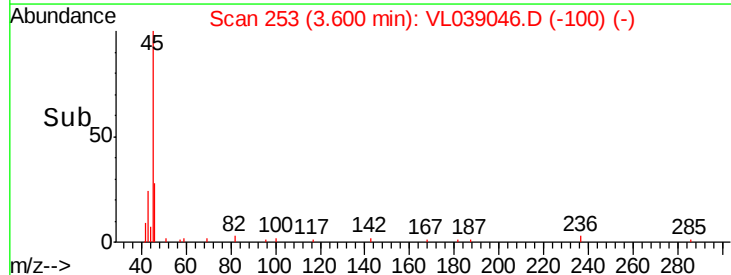
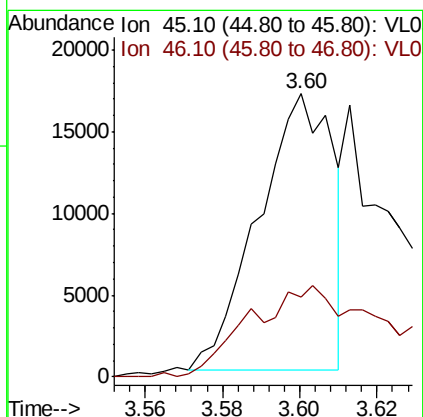
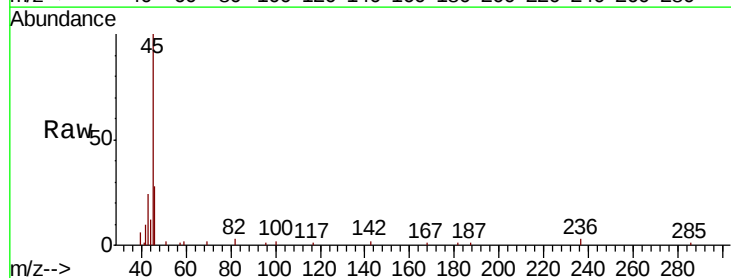
#9
 Propene
 Concen: 0.146 ppbv
 RT: 3.35
 Delta R.T. MSVOA.L
 Lab File: ClientSampleId :
 Acq: 13 May 2022 21:00

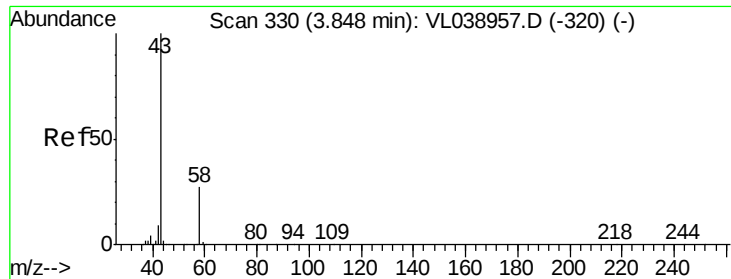
Tot Ion: 41 Resp: 7516
 Ion Ratio Lower Upper
 41 100
 42 76.0 58.3 87.5



#13
 Ethanol
 Concen: 6.249 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VL039046.D
 Acq: 13 May 2022 21:06

Tgt Ion: 45 Resp: 22747
 Ion Ratio Lower Upper
 45 100
 46 78.0 18.0 72.2#





#15

Acetone

Concen: 1.597 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

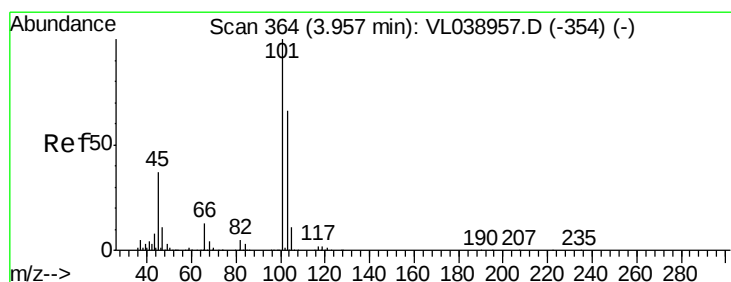
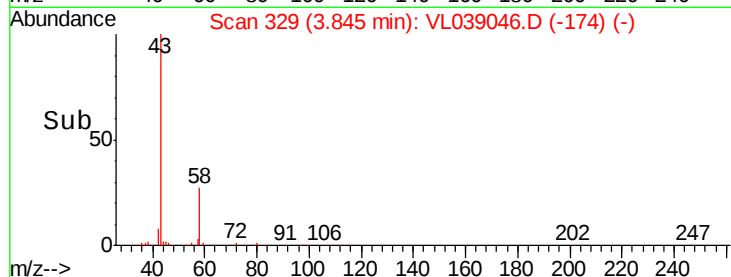
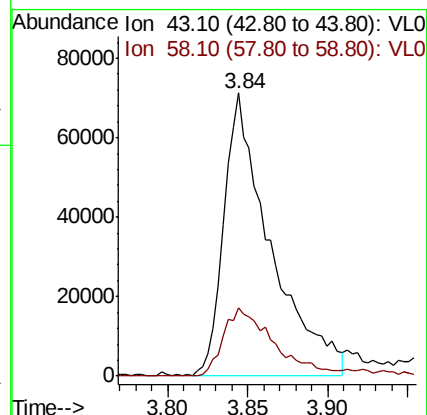
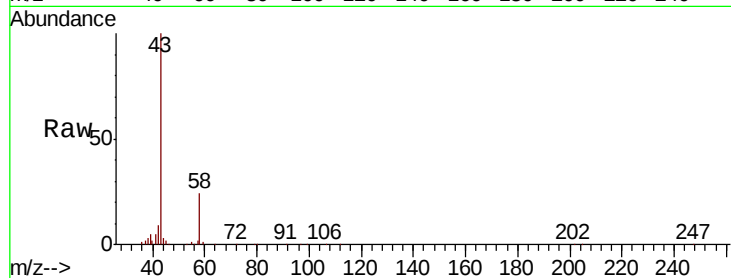
Acq: 13 May 2022 21:00

Tot Ion: 43 Resp: 142967

Ion Ratio Lower Upper

43 100

58 28.0 21.3 31.9



#19

Isopropyl Alcohol

Concen: 0.371 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL039046.D

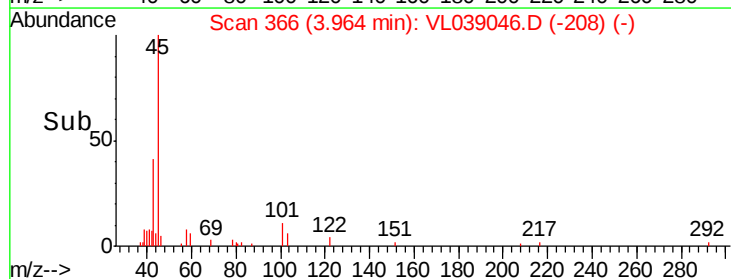
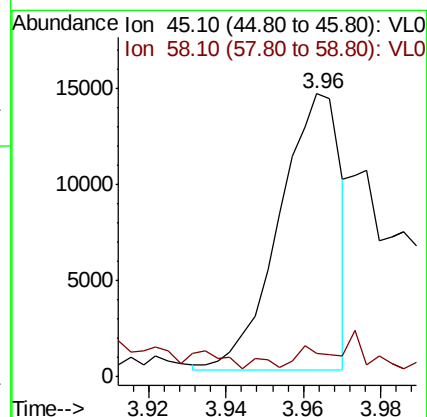
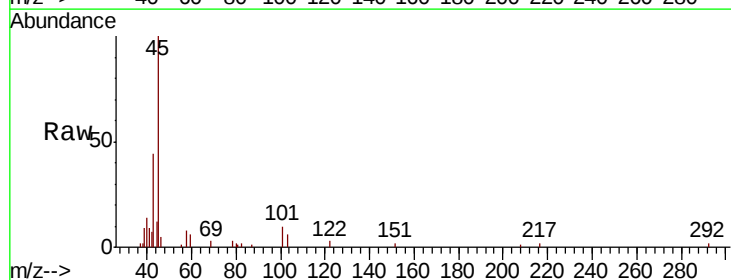
Acq: 13 May 2022 21:06

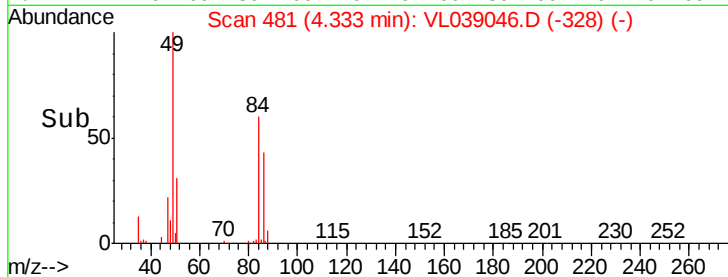
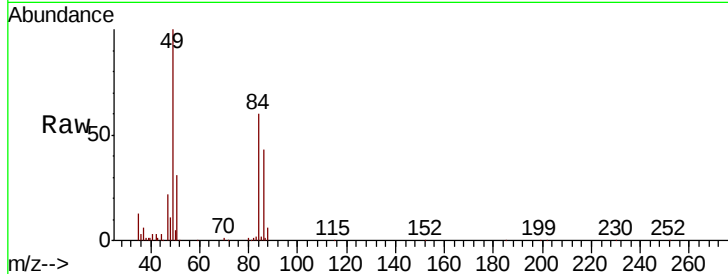
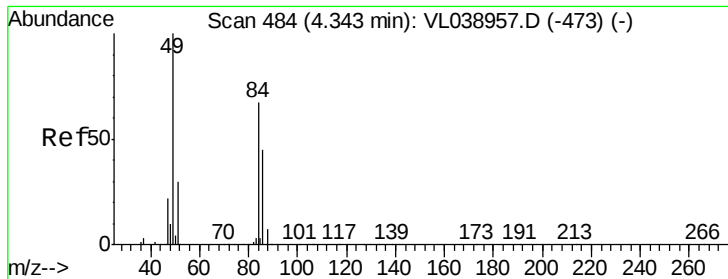
Tgt Ion: 45 Resp: 15798

Ion Ratio Lower Upper

45 100

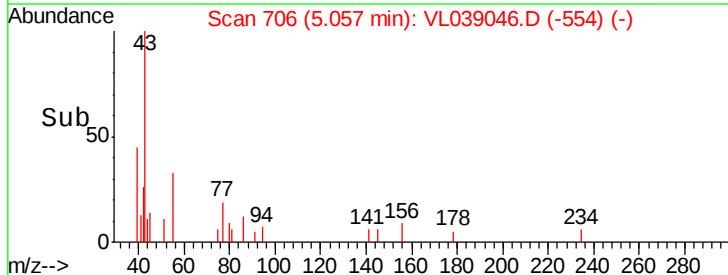
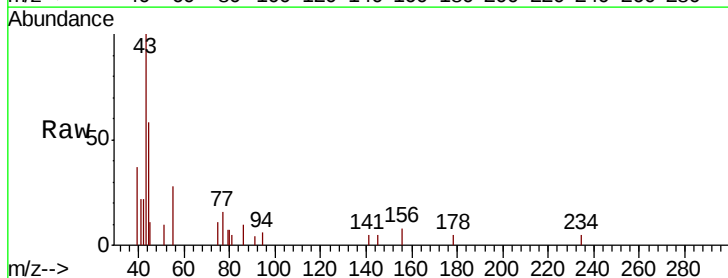
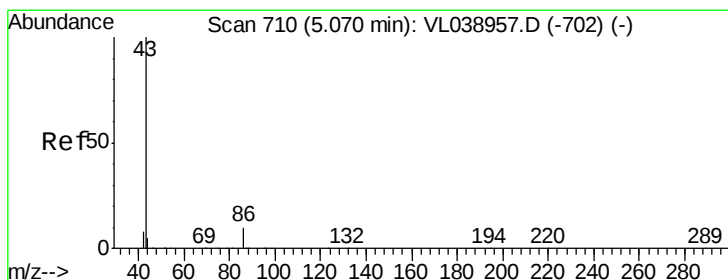
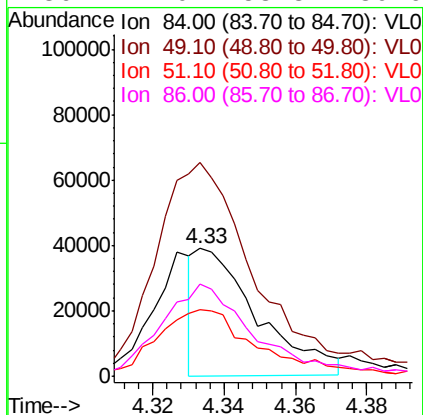
58 0.0 1.4 2.2#





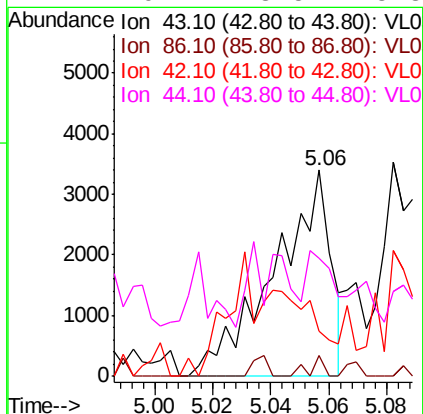
#20
Methvlene Chloride
Concen: 1.389 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 May 2022 21:00

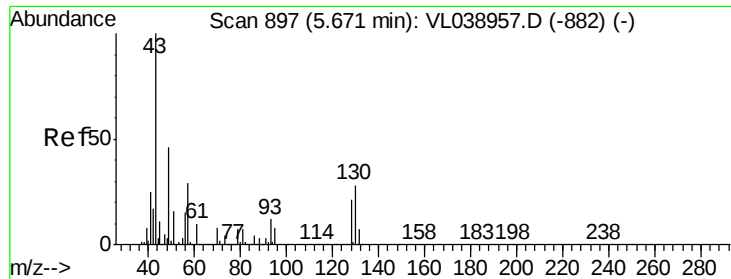
Tot Ion:	84	Resp:	46886
Ion	Ratio	Lower	Upper
84	100		
49	172.8	119.9	179.9
51	53.0	35.7	53.5
86	74.0	53.8	80.6



#23
Vinyl Acetate
Concen: 0.064 ppbv
RT: 5.06 min Scan# 706
Delta R.T. -0.01 min
Lab File: VL039046.D
Acq: 13 May 2022 21:06

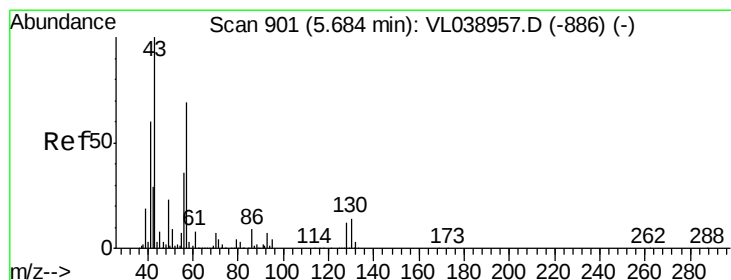
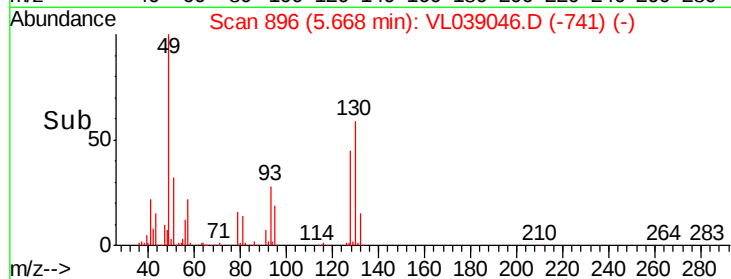
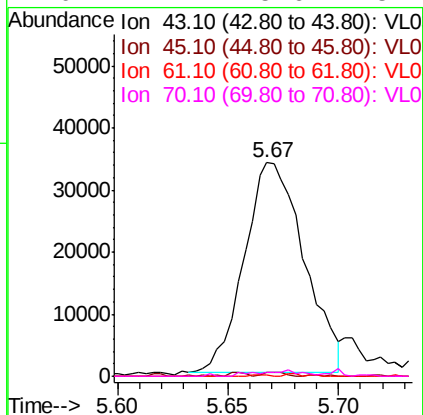
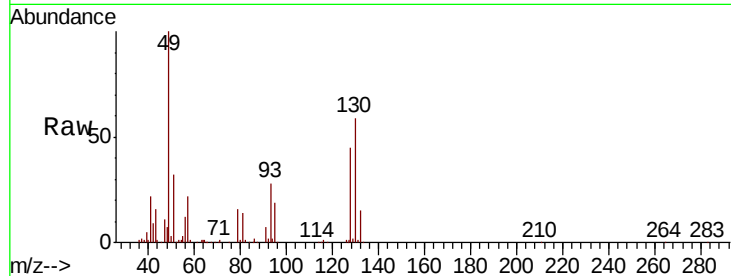
Tgt Ion:	43	Resp:	4549
Ion	Ratio	Lower	Upper
43	100		
86	9.7	6.6	9.8
42	13.2	8.1	12.1#
44	19.2	3.5	5.3#





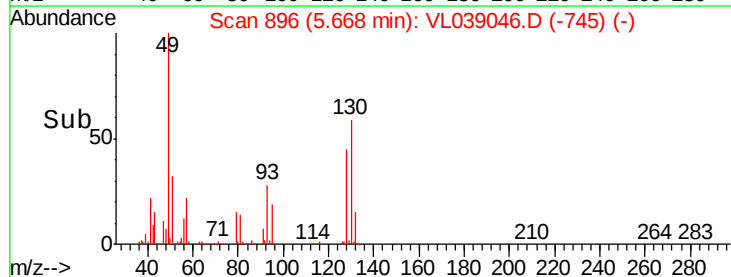
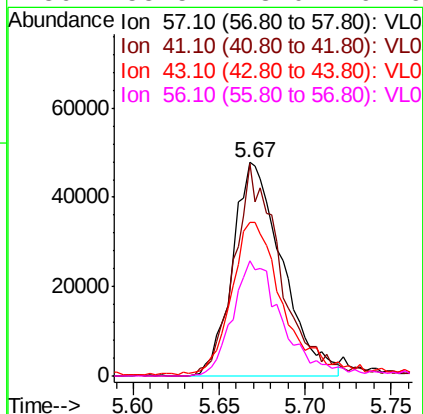
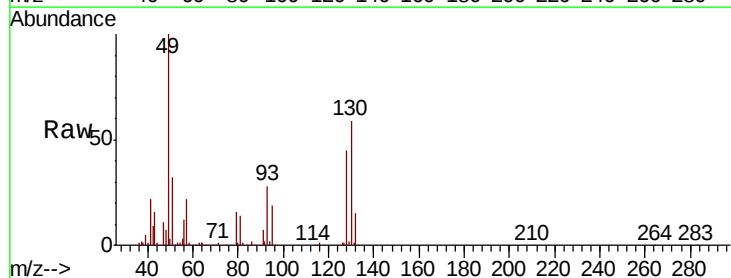
#25
Ethyl Acetate
Concen: 0.297 ppbv
RT: 5.67 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 May 2022 21:00

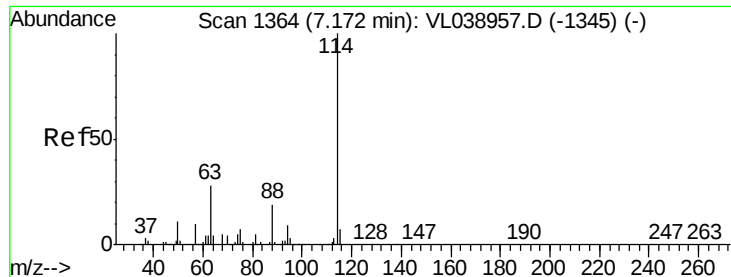
Tot Ion:	43	Resp:	63595
Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.1	12.1#
61	0.6	7.8	11.6#
70	2.1	5.6	8.4#



#26
Hexane
Concen: 1.011 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL039046.D
Acq: 13 May 2022 21:06

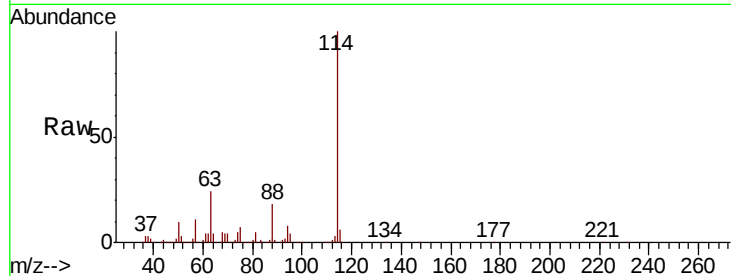
Tgt Ion:	57	Resp:	96321
Ion	Ratio	Lower	Upper
57	100		
41	94.4	75.2	112.8
43	74.9	190.8	286.2#
56	55.5	43.0	64.6



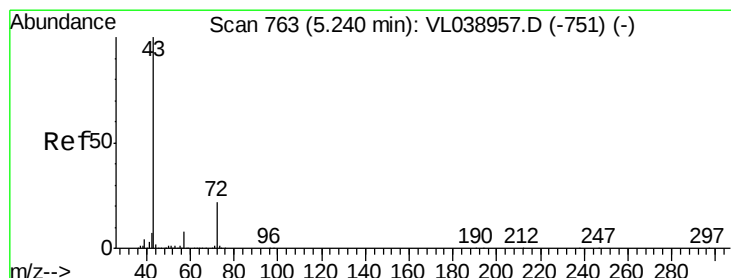
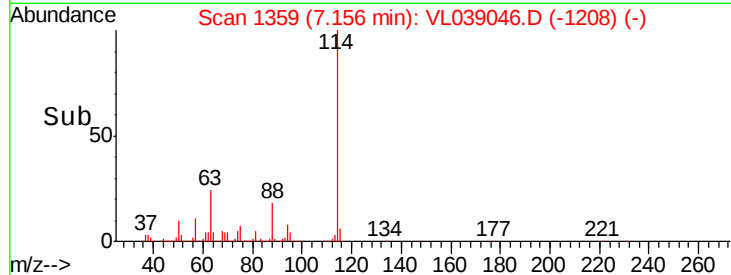
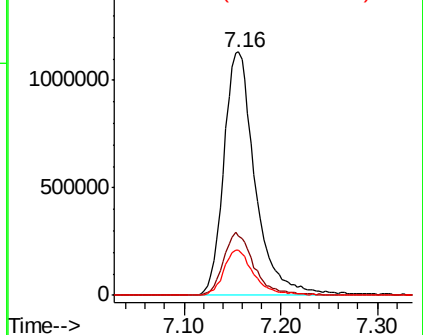


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 May 2022 21:00

Tot Ion:	114	Resp:	2545511
Ion	Ratio	Lower	Upper
114	100		
63	25.2	22.6	33.8
88	18.2	15.4	23.0

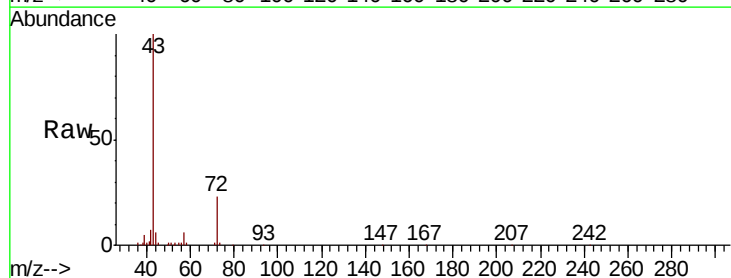


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

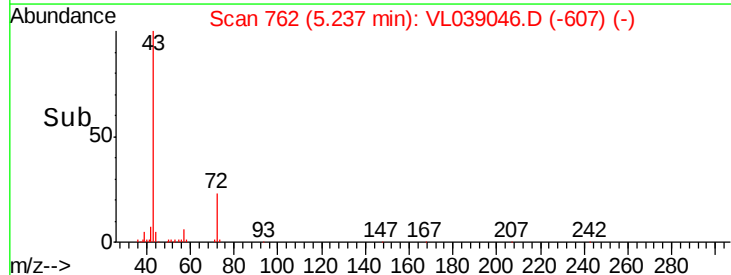
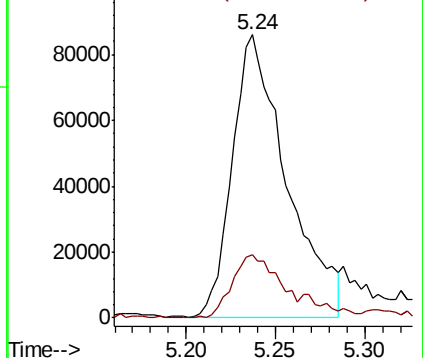


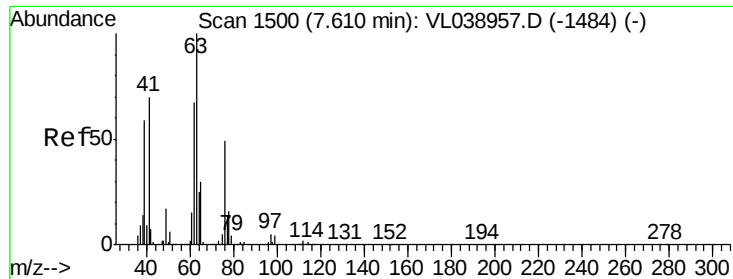
#34
 2-Butanone
 Concen: 1.410 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: VL039046.D
 Acq: 13 May 2022 21:06

Tgt Ion:	43	Resp:	183073
Ion	Ratio	Lower	Upper
43	100		
72	25.7	17.8	26.6



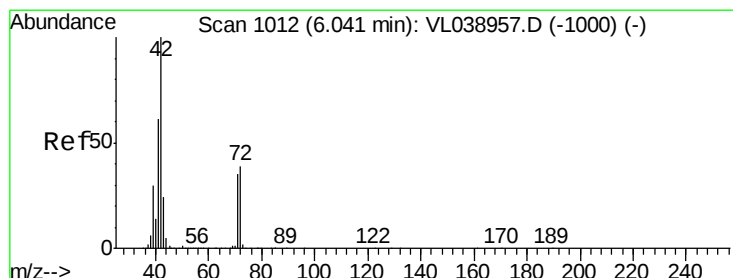
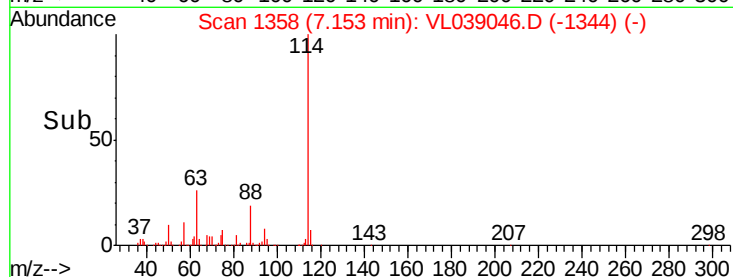
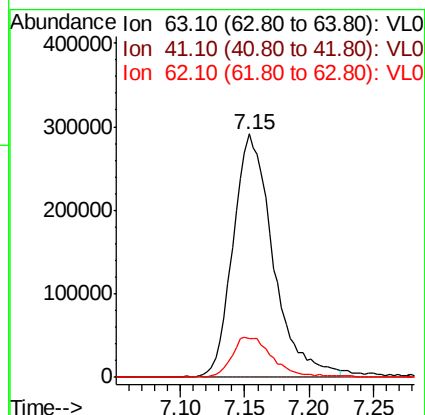
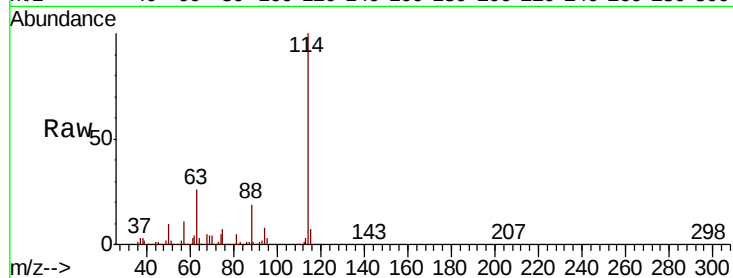
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





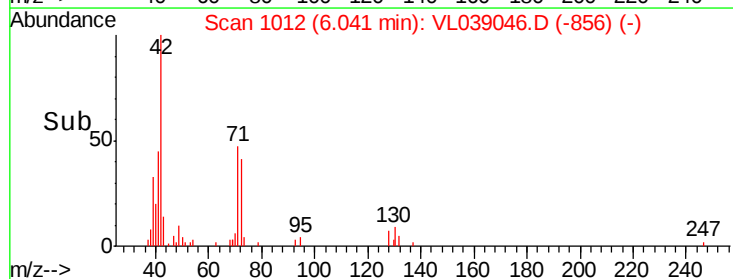
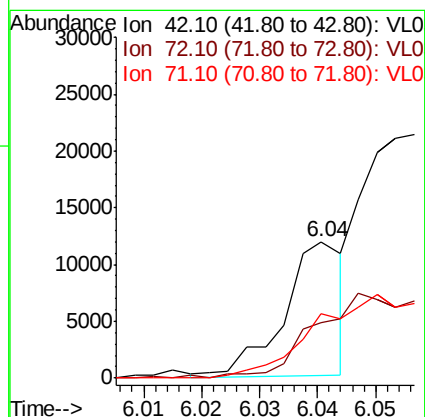
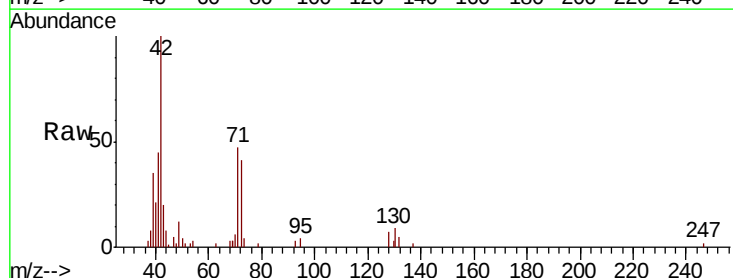
#39
 1,2-Dichloropropane
 Concen: 7.432 ppbv
 RT: 7.15
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 May 2022 21:00

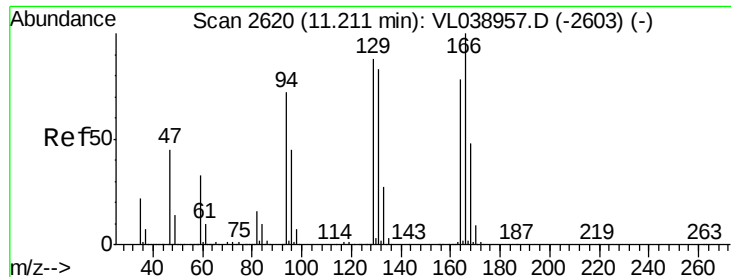
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	15.9	53.8	80.6#



#41
 Tetrahydrofuran
 Concen: 0.097 ppbv
 RT: 6.04 min Scan# 1012
 Delta R.T. 0.00 min
 Lab File: VL039046.D
 Acq: 13 May 2022 21:06

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.8	47.6#
71	0.0	30.6	45.8#





#52

Tetrachloroethene

Concen: 7.544 ppbv

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 May 2022 21:00

Tot Ion:164 Resp: 587276

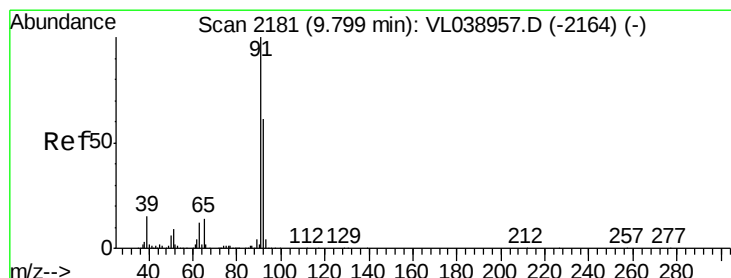
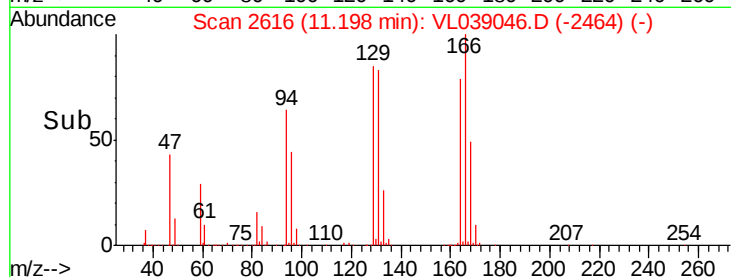
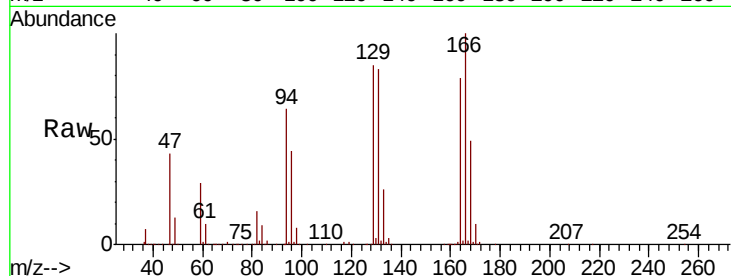
Ion Ratio Lower Upper

164 100

166 126.2 102.5 153.7

129 107.1 90.1 135.1

131 104.6 84.8 127.2



#53

Toluene

Concen: 0.031 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.03 min

Lab File: VL039046.D

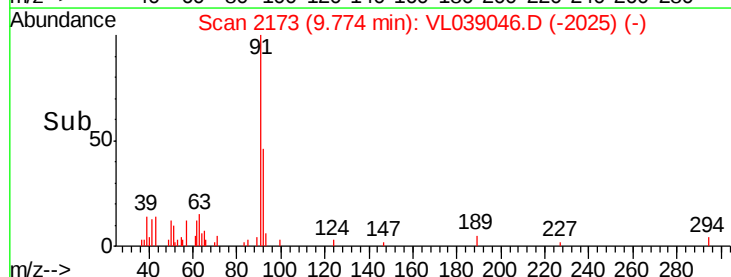
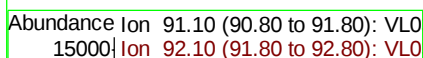
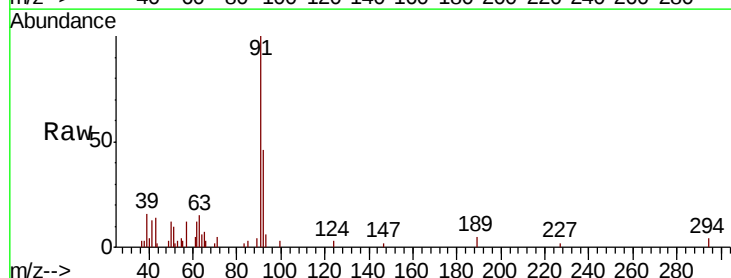
Acq: 13 May 2022 21:06

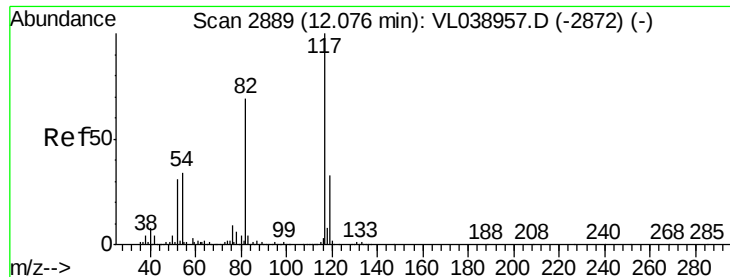
Tgt Ion: 91 Resp: 7629

Ion Ratio Lower Upper

91 100

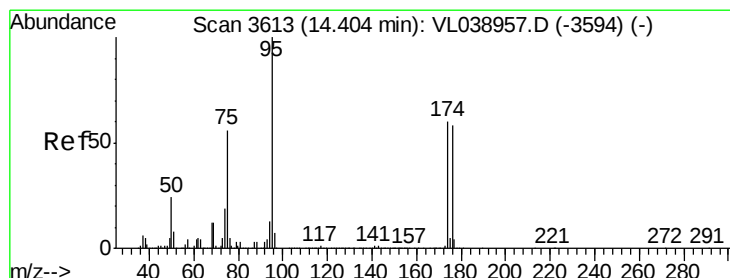
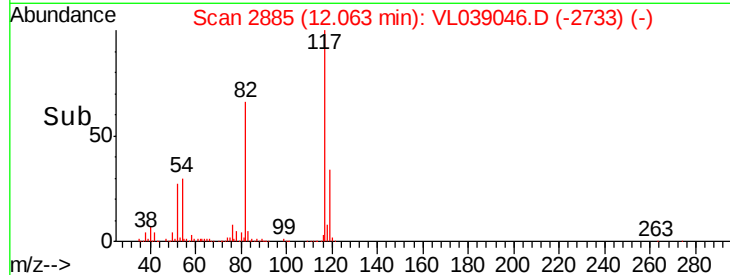
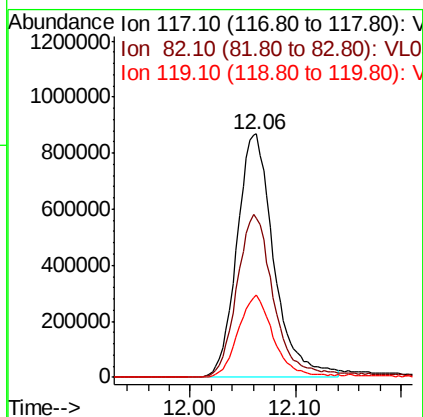
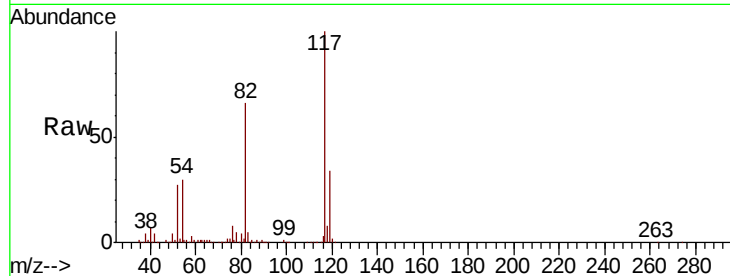
92 0.0 48.2 72.2#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 May 2022 21:00

Tot Ion:117 Resp: 2116249
Ion Ratio Lower Upper
117 100
82 69.0 57.0 85.6
119 33.8 27.2 40.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.486 ppbv
RT: 14.39 min Scan# 3608
Delta R.T.: -0.02 min
Lab File: VL039046.D
Acq: 13 May 2022 21:06

Tgt Ion: 95 Resp: 1589891
Ion Ratio Lower Upper
95 100
174 67.2 50.8 76.2
175 4.6 3.8 5.6

