

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061522\
 Data File : VL039311.D
 Acq On : 16 Jun 2022 1:22
 Operator : SY/AP
 Sample : N3338-02 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Jun 16 04:37:47 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1248482	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3490163	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3119796	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2307778	8.95	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.50%

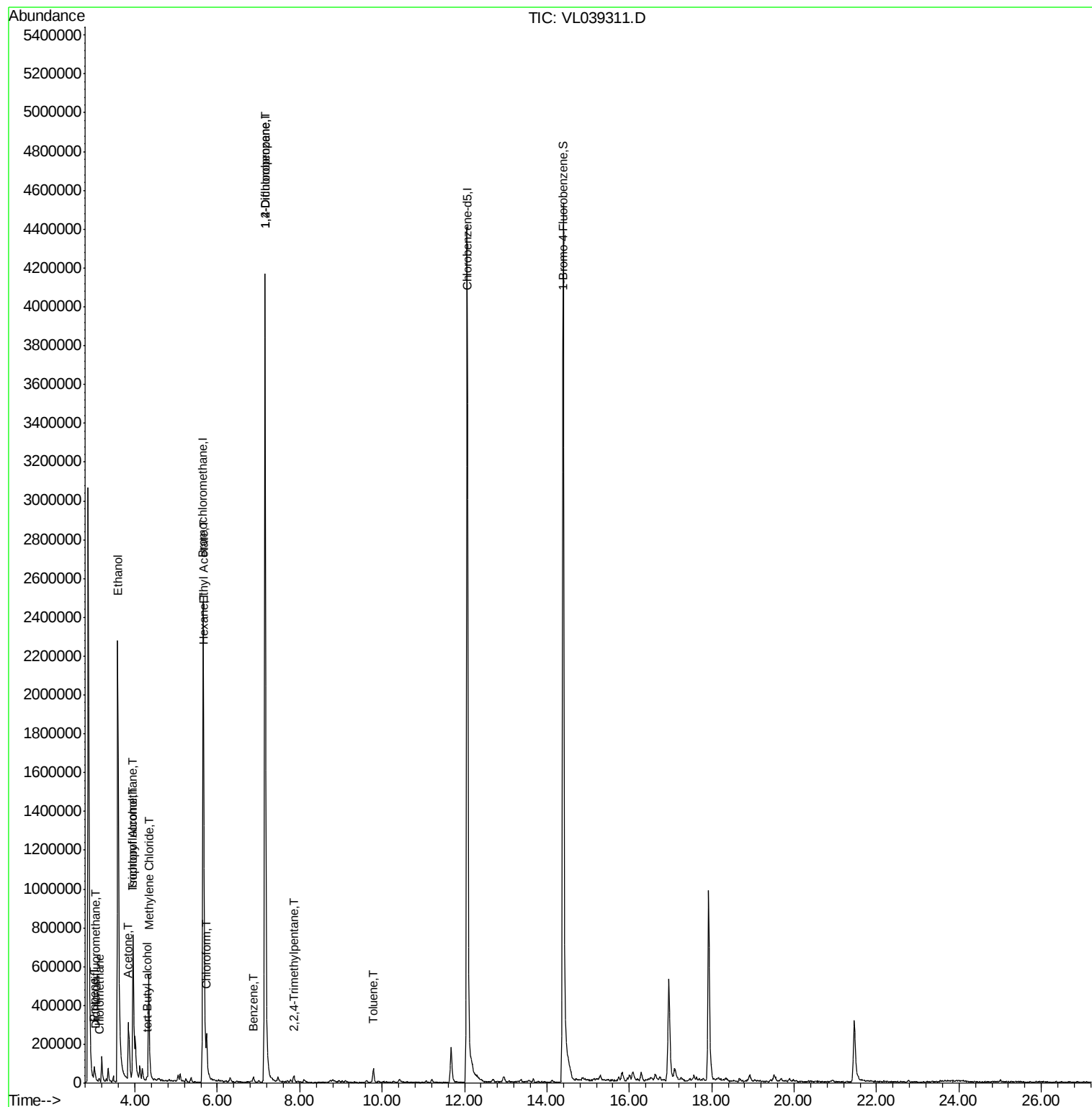
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	20521	0.094	ppbv	98
4) Chloromethane	3.14	50	9276	0.114	ppbv	99
9) Propene	3.01	41	10890	0.157	ppbv #	35
11) Trichlorofluoromethane	3.94	101	10446	0.053	ppbv	93
13) Ethanol	3.58	45	2981843	789.371	ppbv #	100
15) Acetone	3.84	43	391531	3.011	ppbv	93
17) tert-Butyl alcohol	4.29	59	8321	0.082	ppbv #	1
19) Isopropyl Alcohol	3.95	45	995201	16.315	ppbv	100
20) Methylene Chloride	4.34	84	224242	4.092	ppbv	88
25) Ethyl Acetate	5.67	43	89511	0.305	ppbv #	86
26) Hexane	5.67	57	190949	1.482	ppbv #	42
29) Chloroform	5.74	83	129723	0.598	ppbv	93
36) Benzene	6.88	78	10687	0.038	ppbv #	96
39) 1,2-Dichloropropane	7.16	63	857741	7.610	ppbv #	23
44) 2,2,4-Trimethylpentane	7.85	57	15276	0.031	ppbv #	25
53) Toluene	9.78	91	28145	0.086	ppbv #	32

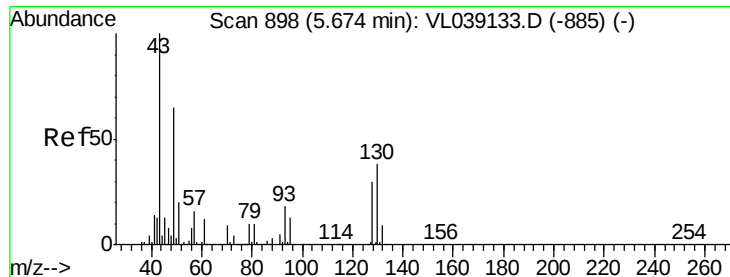
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061522\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 16 Jun 2022 1:22

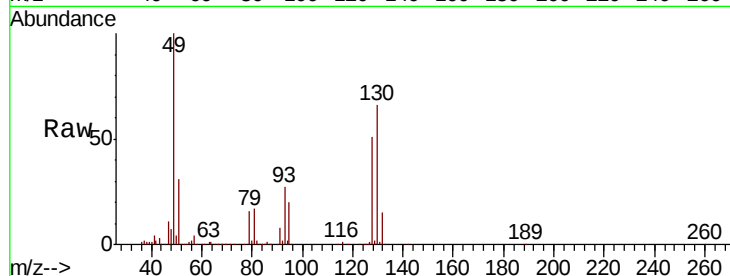
Tot Ion: 49 Resp: 1248482

Ion Ratio Lower Upper

49 100

128 54.2 24.7 74.1

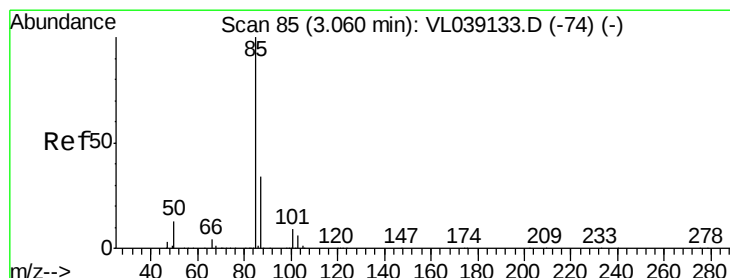
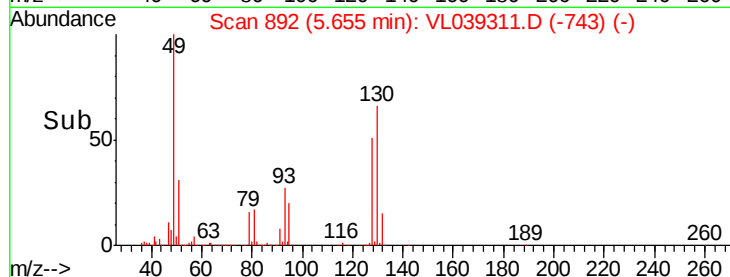
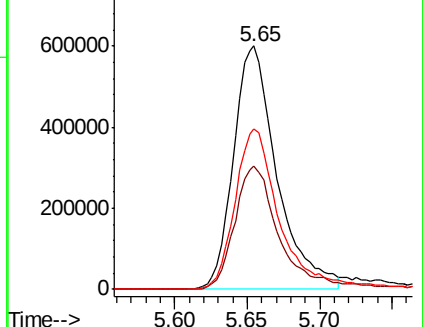
130 69.5 31.4 94.0



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: 0.094 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.02 min

Lab File: VL039311.D

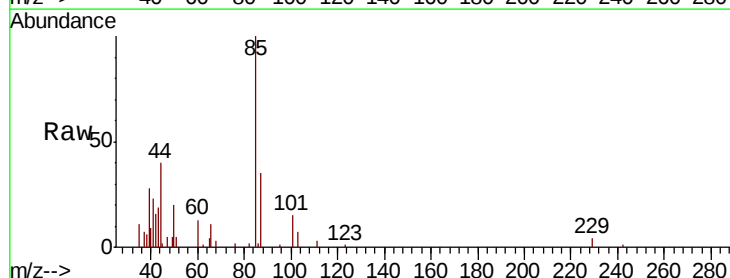
Acq: 16 Jun 2022 1:22

Tgt Ion: 85 Resp: 20521

Ion Ratio Lower Upper

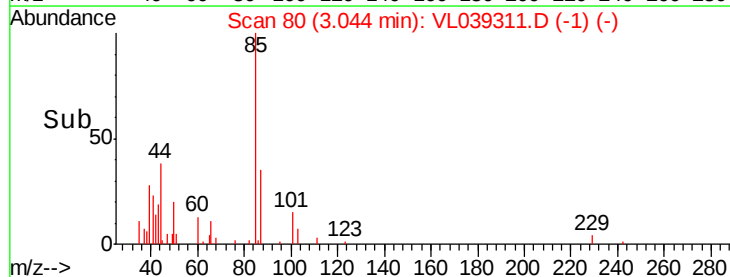
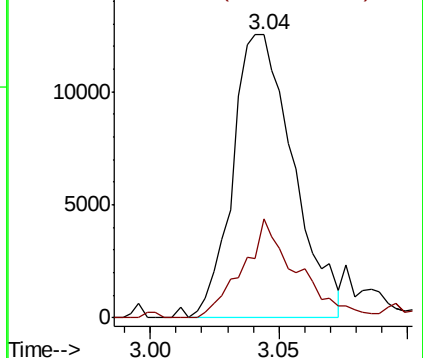
85 100

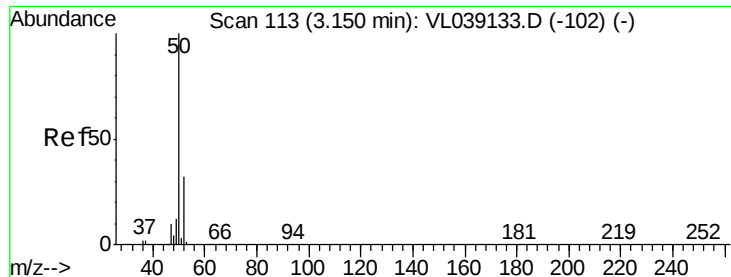
87 34.8 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.114 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

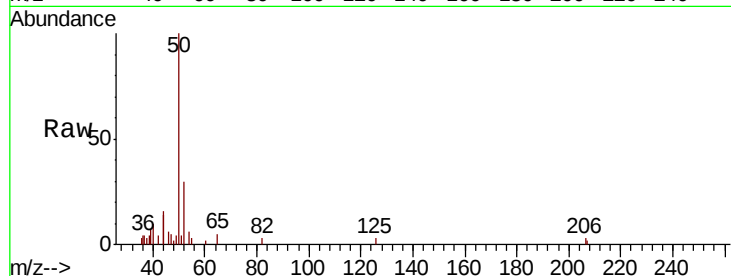
Acq: 16 Jun 2022 1:22

Tot Ion: 50 Resp: 9276

Ion Ratio Lower Upper

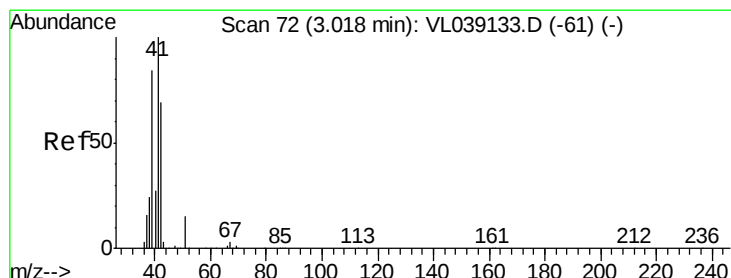
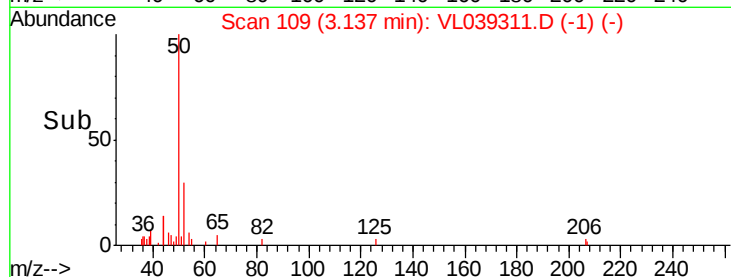
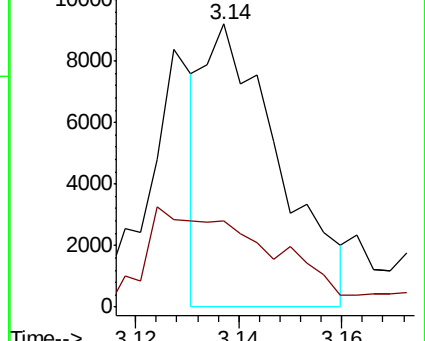
50 100

52 31.7 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.157 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.01 min

Lab File: VL039311.D

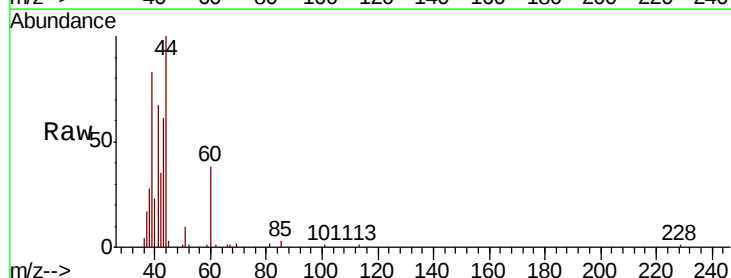
Acq: 16 Jun 2022 1:22

Tgt Ion: 41 Resp: 10890

Ion Ratio Lower Upper

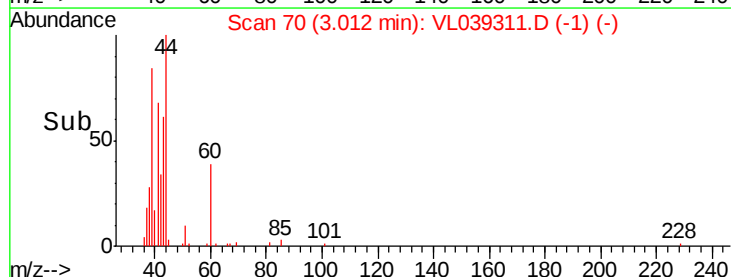
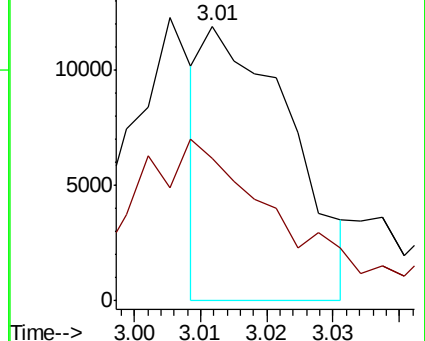
41 100

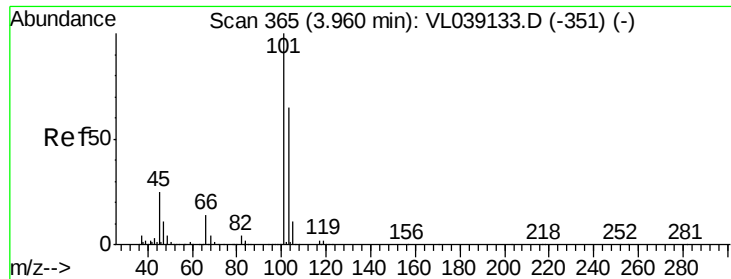
42 122.7 55.4 83.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

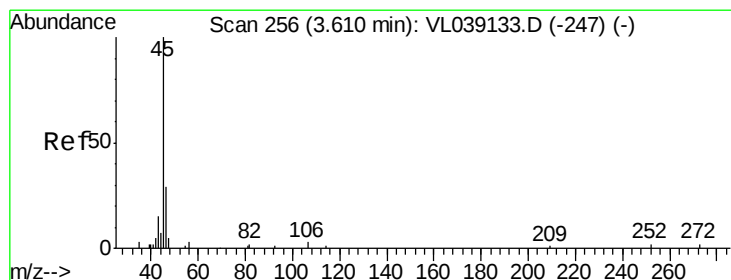
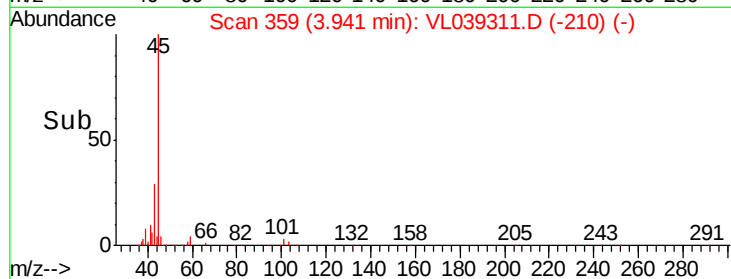
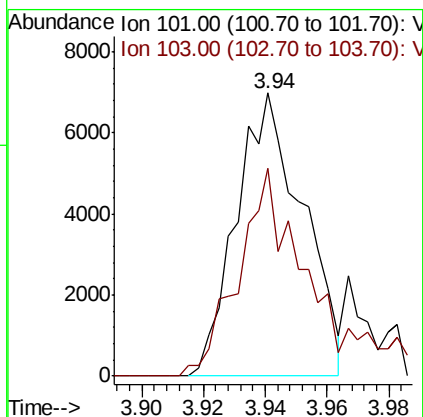
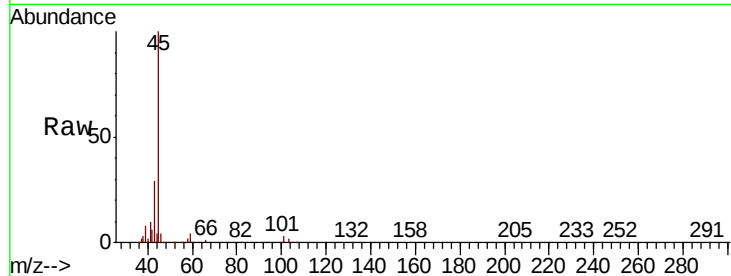
Ion 42.10 (41.80 to 42.80): VL0





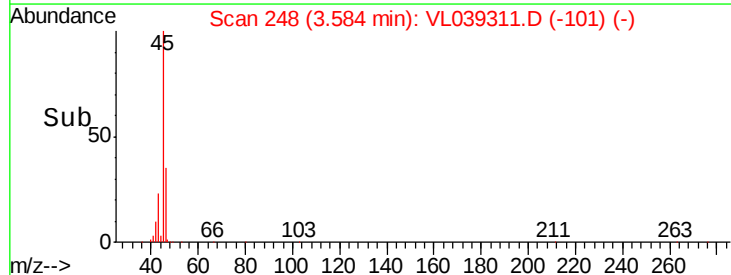
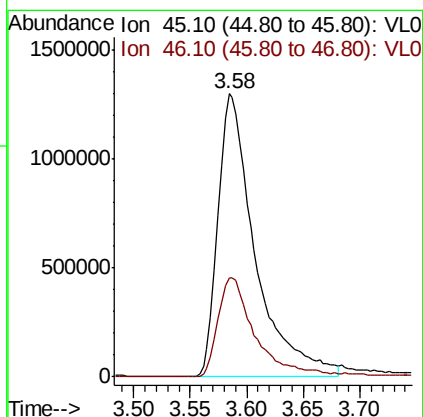
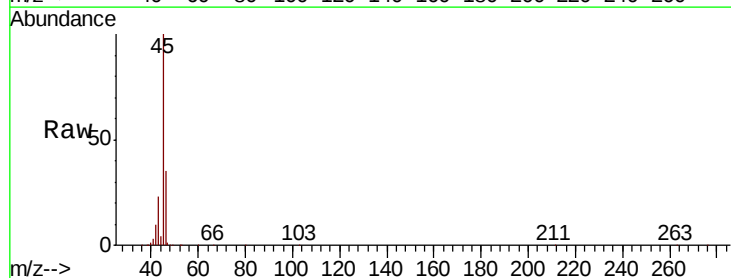
#11
 Trichlorofluoromethane
 Concen: 0.053 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Jun 2022 1:22

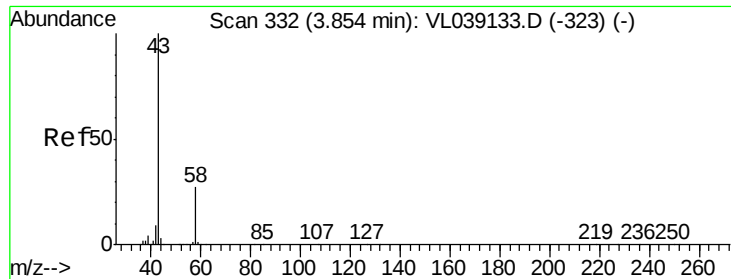
Tot Ion: 101 Resp: 10446
 Ion Ratio Lower Upper
 101 100
 103 69.8 51.7 77.5



#13
 Ethanol
 Concen: 789.371 ppbv
 RT: 3.58 min Scan# 248
 Delta R.T. -0.03 min
 Lab File: VL039311.D
 Acq: 16 Jun 2022 1:22

Tgt Ion: 45 Resp: 2981843
 Ion Ratio Lower Upper
 45 100
 46 35.9 0.0 0.0#





#15

Acetone

Concen: 3.011 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

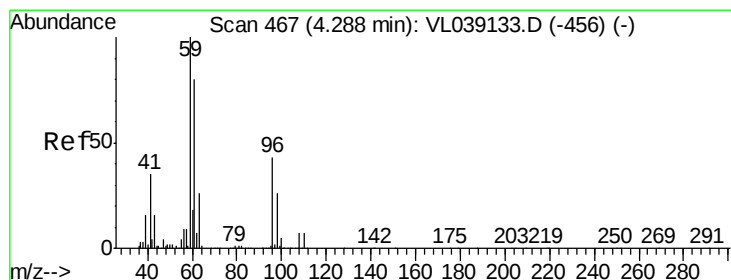
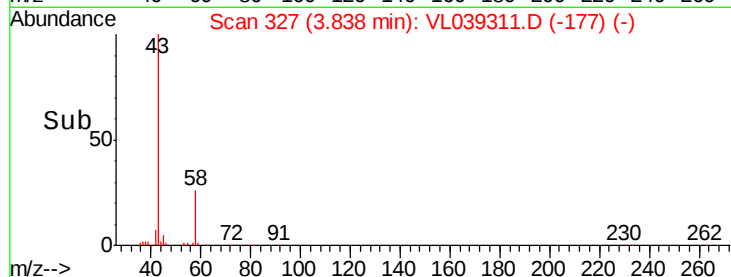
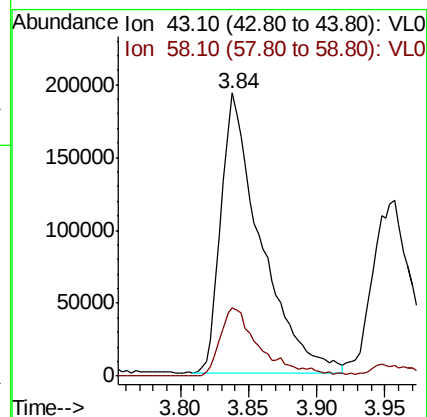
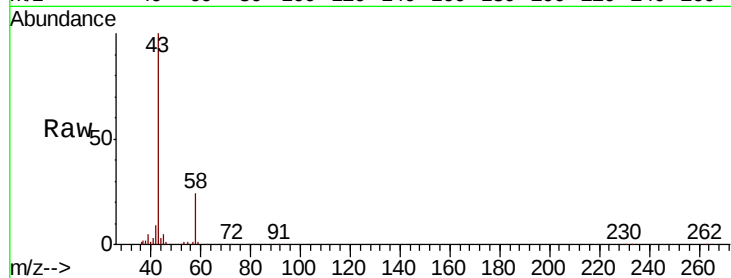
Acq: 16 Jun 2022 1:22

Tot Ion: 43 Resp: 391531

Ion Ratio Lower Upper

43 100

58 24.4 22.5 33.7



#17

tert-Butyl alcohol

Concen: 0.082 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL039311.D

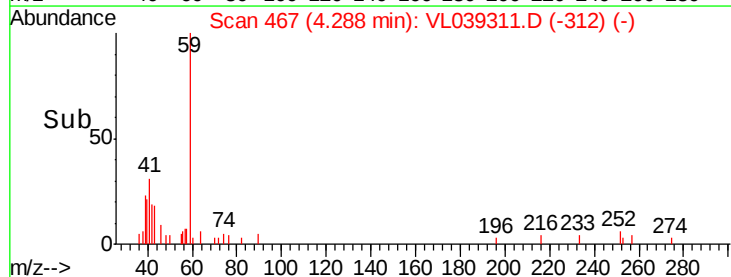
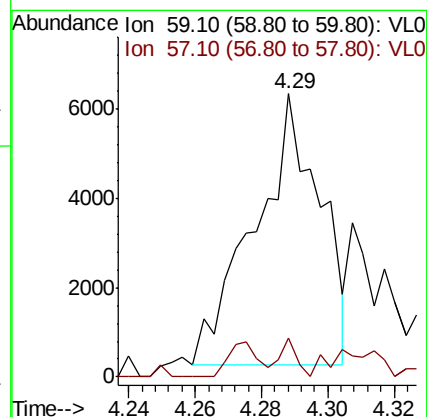
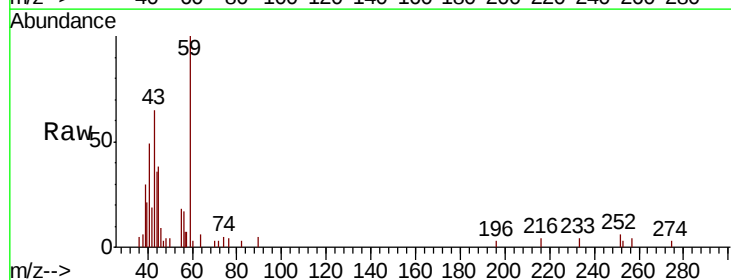
Acq: 16 Jun 2022 1:22

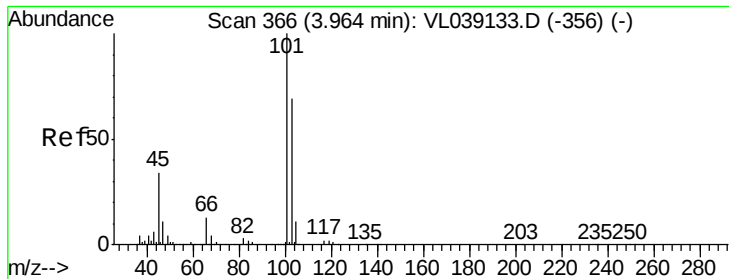
Tgt Ion: 59 Resp: 8321

Ion Ratio Lower Upper

59 100

57 80.2 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 16.315 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

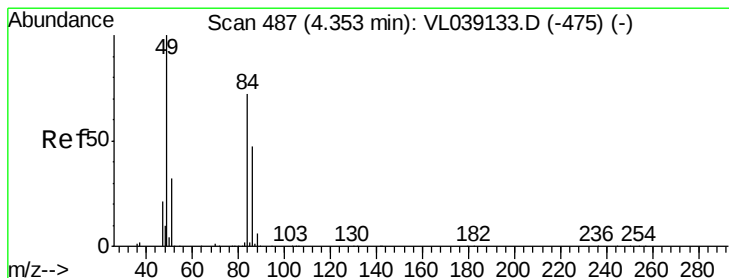
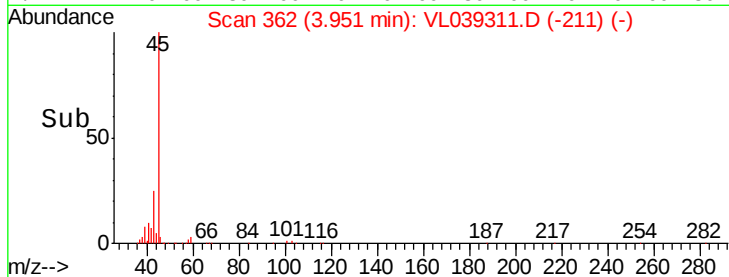
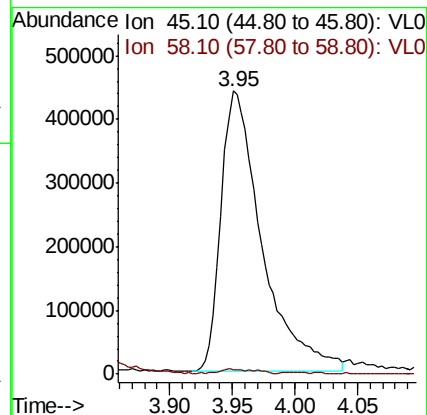
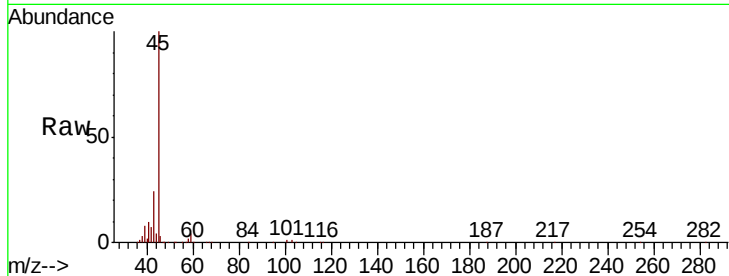
Acq: 16 Jun 2022 1:22

Tot Ion: 45 Resp: 995201

Ion Ratio Lower Upper

45 100

58 2.3 1.8 2.8



#20

Methylene Chloride

Concen: 4.092 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.02 min

Lab File: VL039311.D

Acq: 16 Jun 2022 1:22

Tgt Ion: 84 Resp: 224242

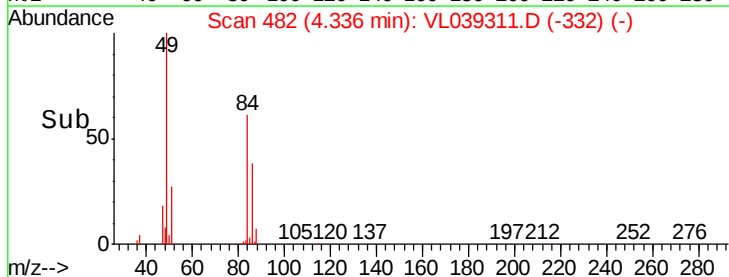
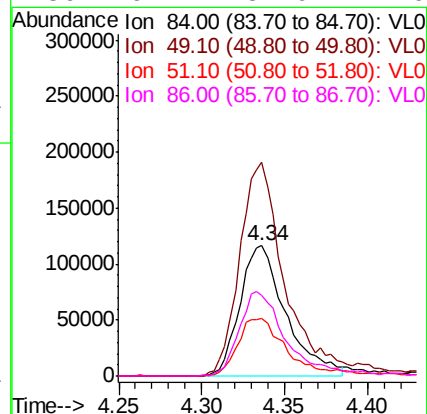
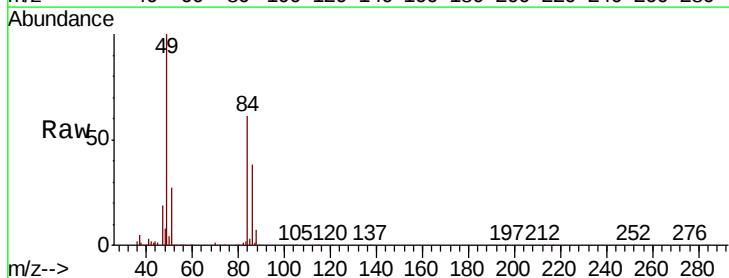
Ion Ratio Lower Upper

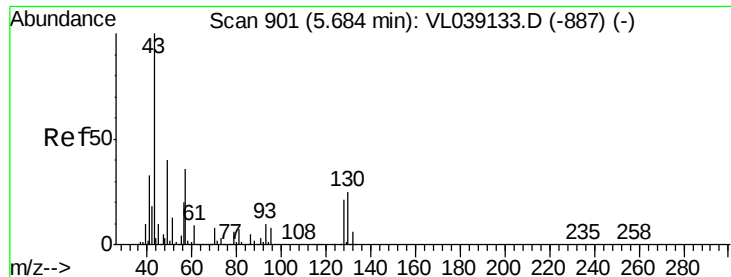
84 100

49 163.8 111.1 166.7

51 44.3 35.3 52.9

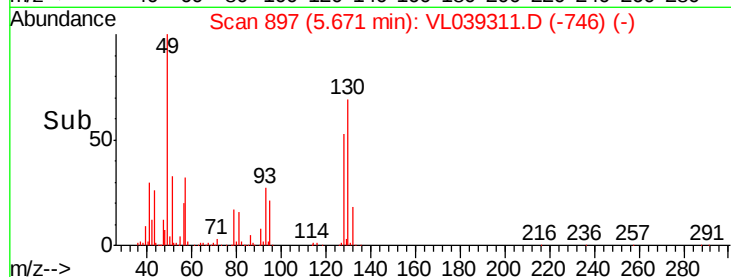
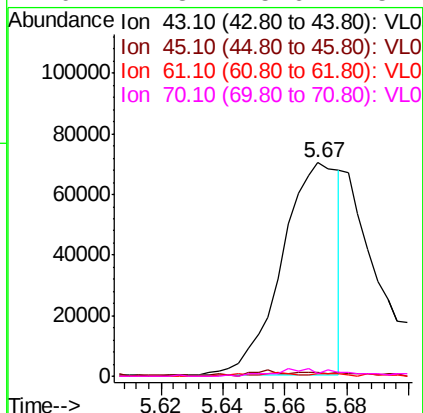
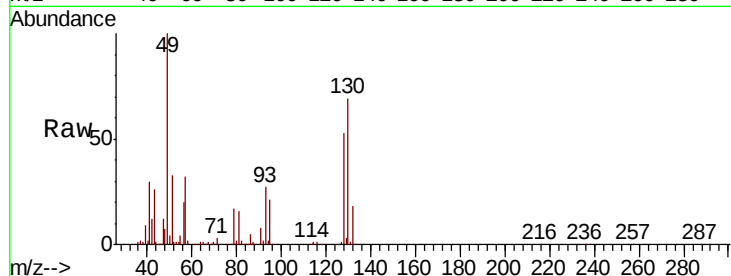
86 62.4 51.9 77.9





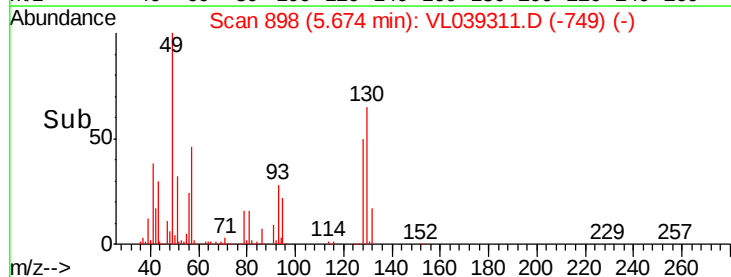
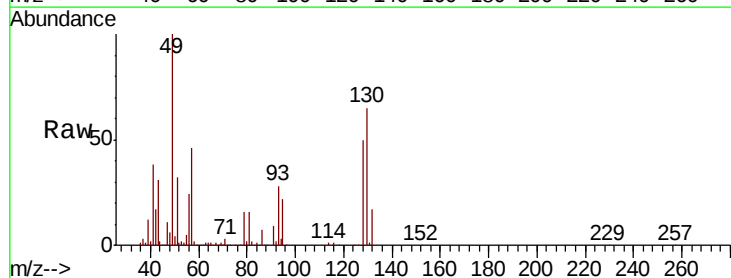
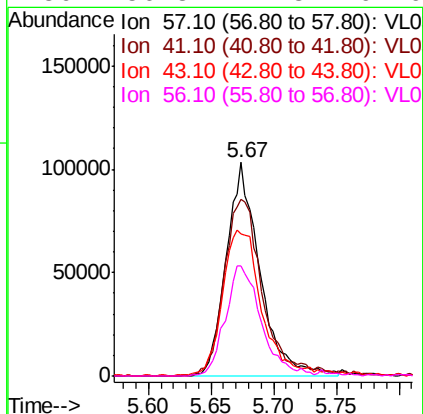
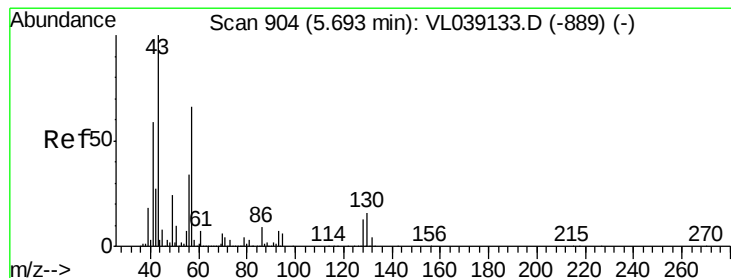
#25
Ethyl Acetate
Concen: 0.305 ppbv
RT: 5.67 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Jun 2022 1:22

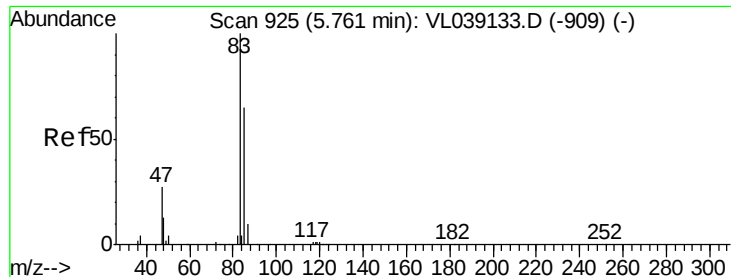
Tot Ion:	43	Resp:	89511
Ion	Ratio	Lower	Upper
43	100		
45	5.4	8.2	12.2#
61	2.7	8.4	12.6#
70	4.8	5.6	8.4#



#26
Hexane
Concen: 1.482 ppbv
RT: 5.67 min Scan# 898
Delta R.T.: -0.02 min
Lab File: VL039311.D
Acq: 16 Jun 2022 1:22

Tgt Ion:	57	Resp:	190949
Ion	Ratio	Lower	Upper
57	100		
41	96.2	72.4	108.6
43	82.9	187.0	280.6#
56	56.8	41.8	62.6





#29

Chloroform

Concen: 0.598 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

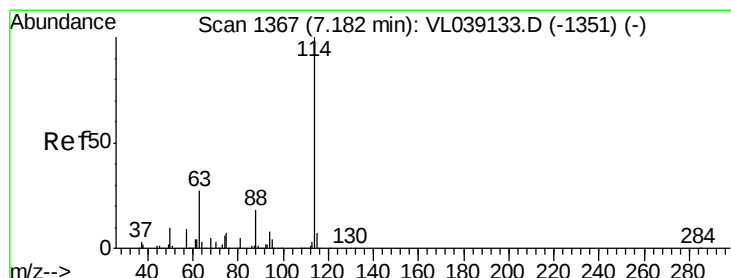
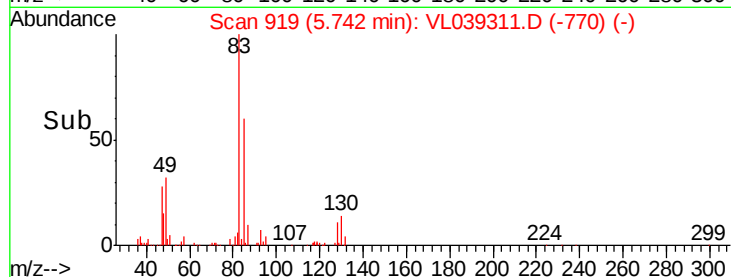
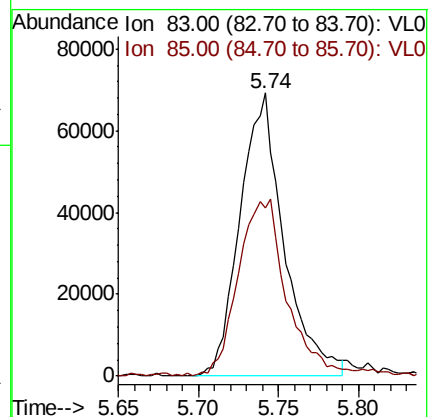
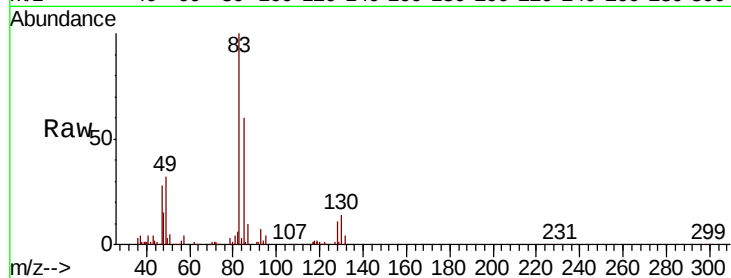
Acq: 16 Jun 2022 1:22

Tot Ion: 83 Resp: 129723

Ion Ratio Lower Upper

83 100

85 59.6 52.4 78.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.02 min

Lab File: VL039311.D

Acq: 16 Jun 2022 1:22

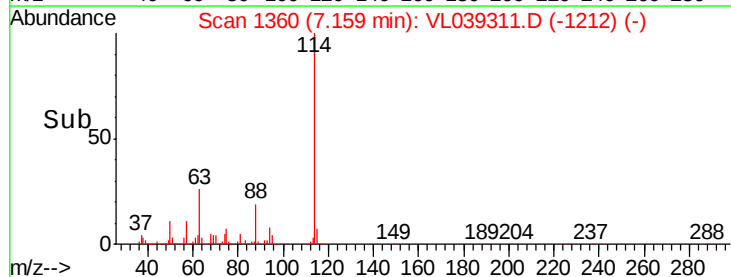
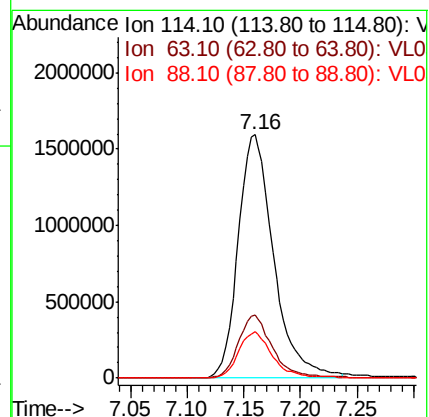
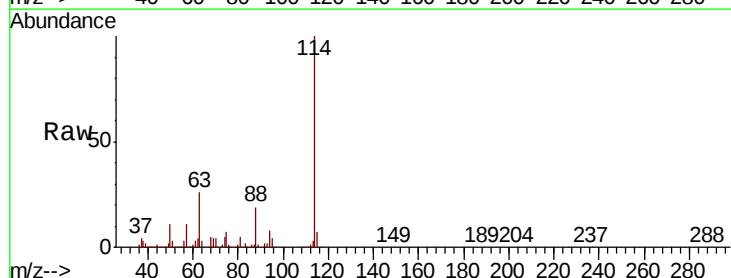
Tgt Ion: 114 Resp: 3490163

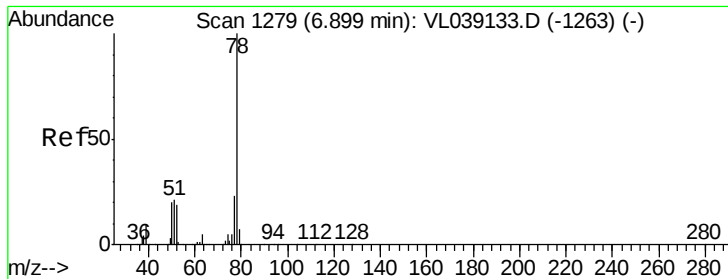
Ion Ratio Lower Upper

114 100

63 25.2 21.7 32.5

88 18.5 14.8 22.2





#36

Benzene

Concen: 0.038 ppbv

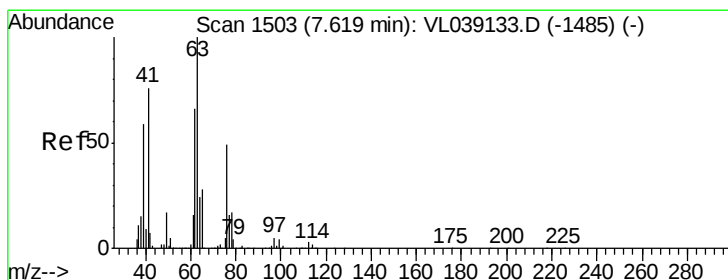
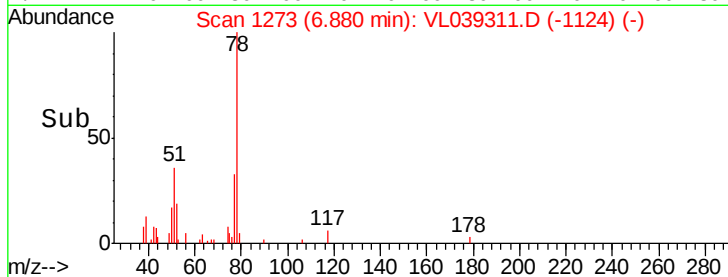
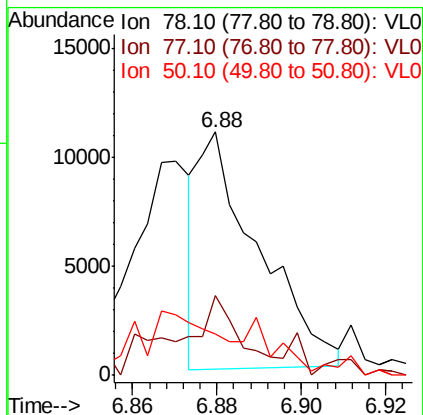
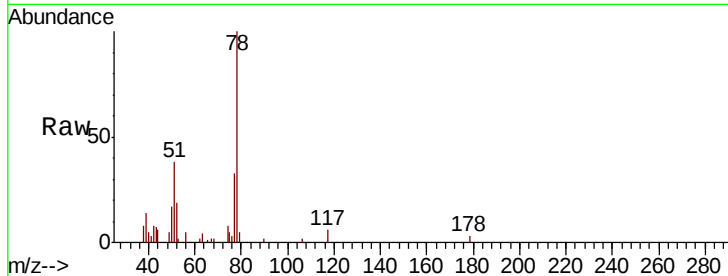
RT: 6.88 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 16 Jun 2022 1:22

Tot Ion:	78	Resp:	10687
Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	27.8
50	15.5	15.8	23.8#



#39

1,2-Dichloropropane

Concen: 7.610 ppbv

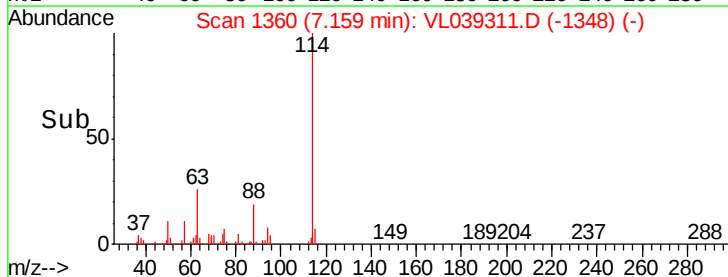
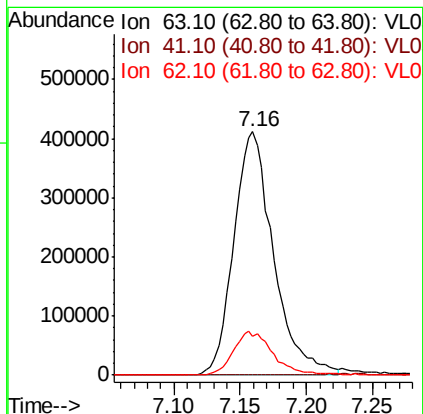
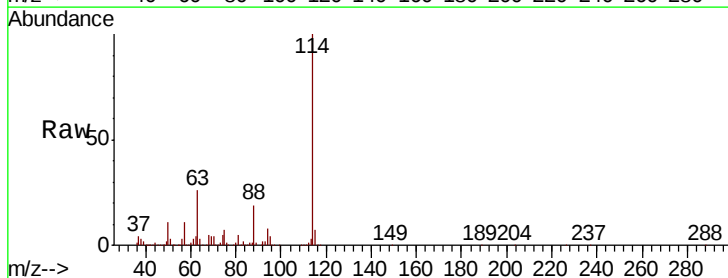
RT: 7.16 min Scan# 1360

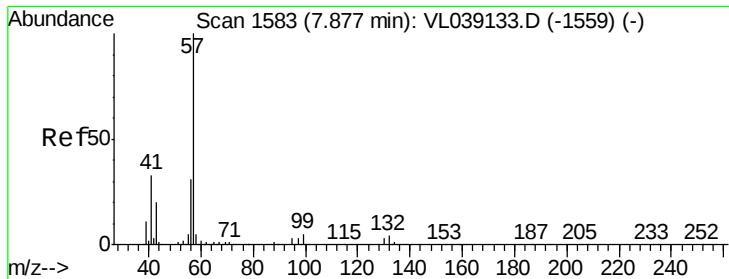
Delta R.T. -0.46 min

Lab File: VL039311.D

Acq: 16 Jun 2022 1:22

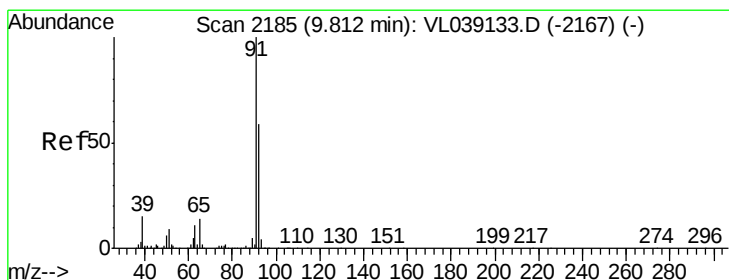
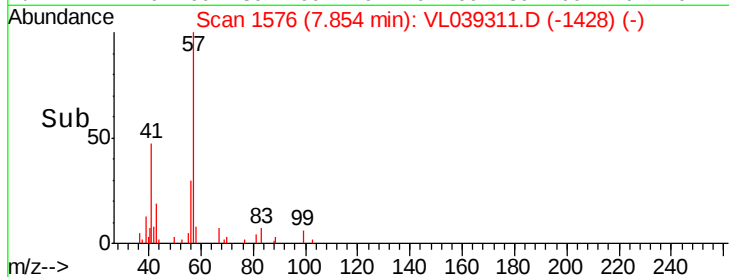
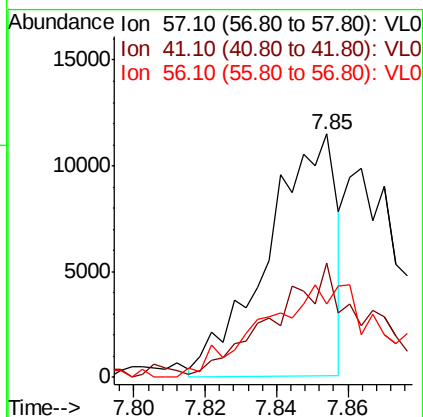
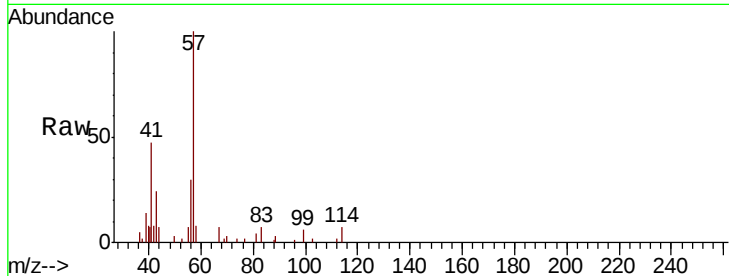
Tgt Ion:	63	Resp:	857741
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	16.0	52.9	79.3#





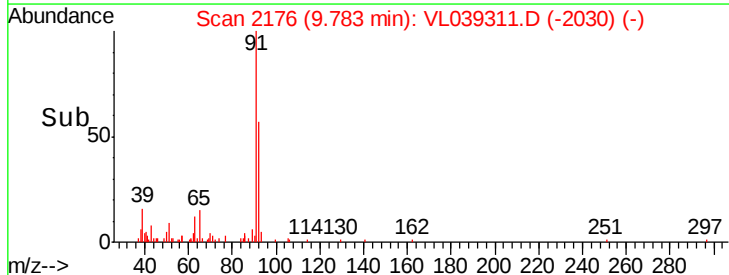
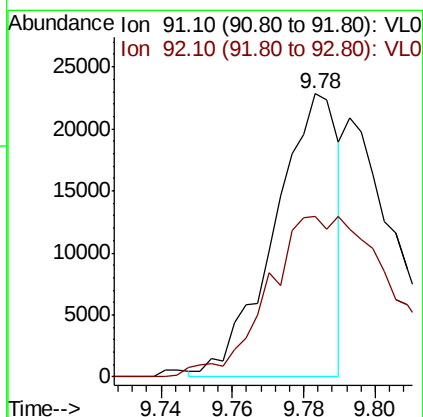
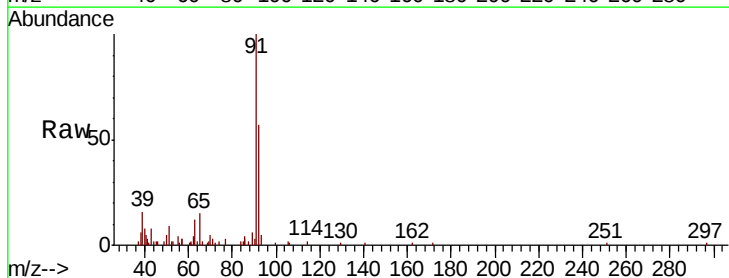
#44
 2,2,4-Trimethylpentane
 Concen: 0.031 ppbv
 RT: 7.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Jun 2022 1:22

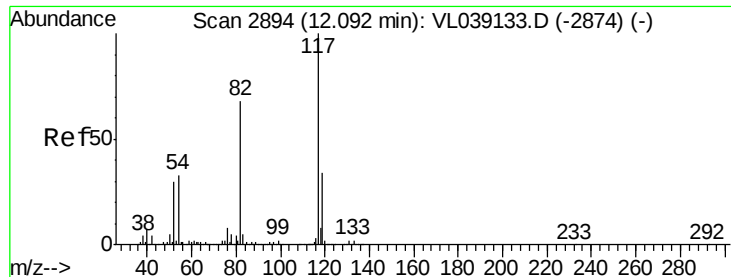
Tot Ion	57	Resp	15276
Ion Ratio	Lower	Upper	
57	100		
41	75.8	26.2	39.4#
56	71.8	24.7	37.1#



#53
 Toluene
 Concen: 0.086 ppbv
 RT: 9.78 min Scan# 2176
 Delta R.T. -0.03 min
 Lab File: VL039311.D
 Acq: 16 Jun 2022 1:22

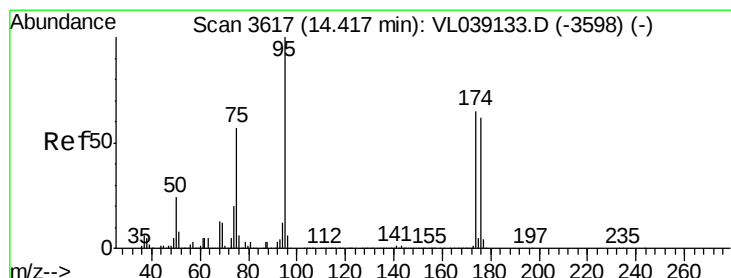
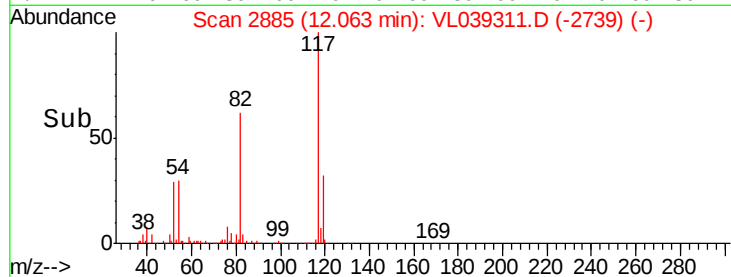
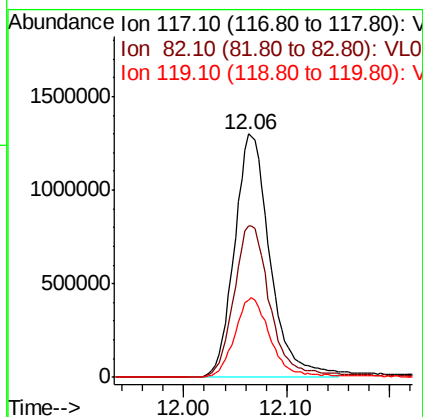
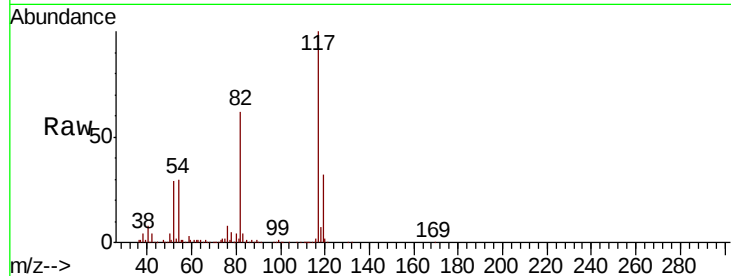
Tgt Ion	91	Resp	28145
Ion Ratio	Lower	Upper	
91	100		
92	111.5	48.1	72.1#





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.06 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Jun 2022 1:22

Tot Ion: 117 Resp: 3119796
 Ion Ratio Lower Upper
 117 100
 82 65.4 55.1 82.7
 119 33.6 24.7 37.1



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.948 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.02 min
 Lab File: VL039311.D
 Acq: 16 Jun 2022 1:22

Tgt Ion: 95 Resp: 2307778
 Ion Ratio Lower Upper
 95 100
 174 73.9 53.8 80.8
 175 5.5 4.1 6.1

