

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039062.D
 Acq On : 14 May 2022 7:55
 Operator : SY/AP
 Sample : N2828-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-7DL

Quant Time: May 14 08:43:05 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	886906	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2506475	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	2102538	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1533332	9.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.10%

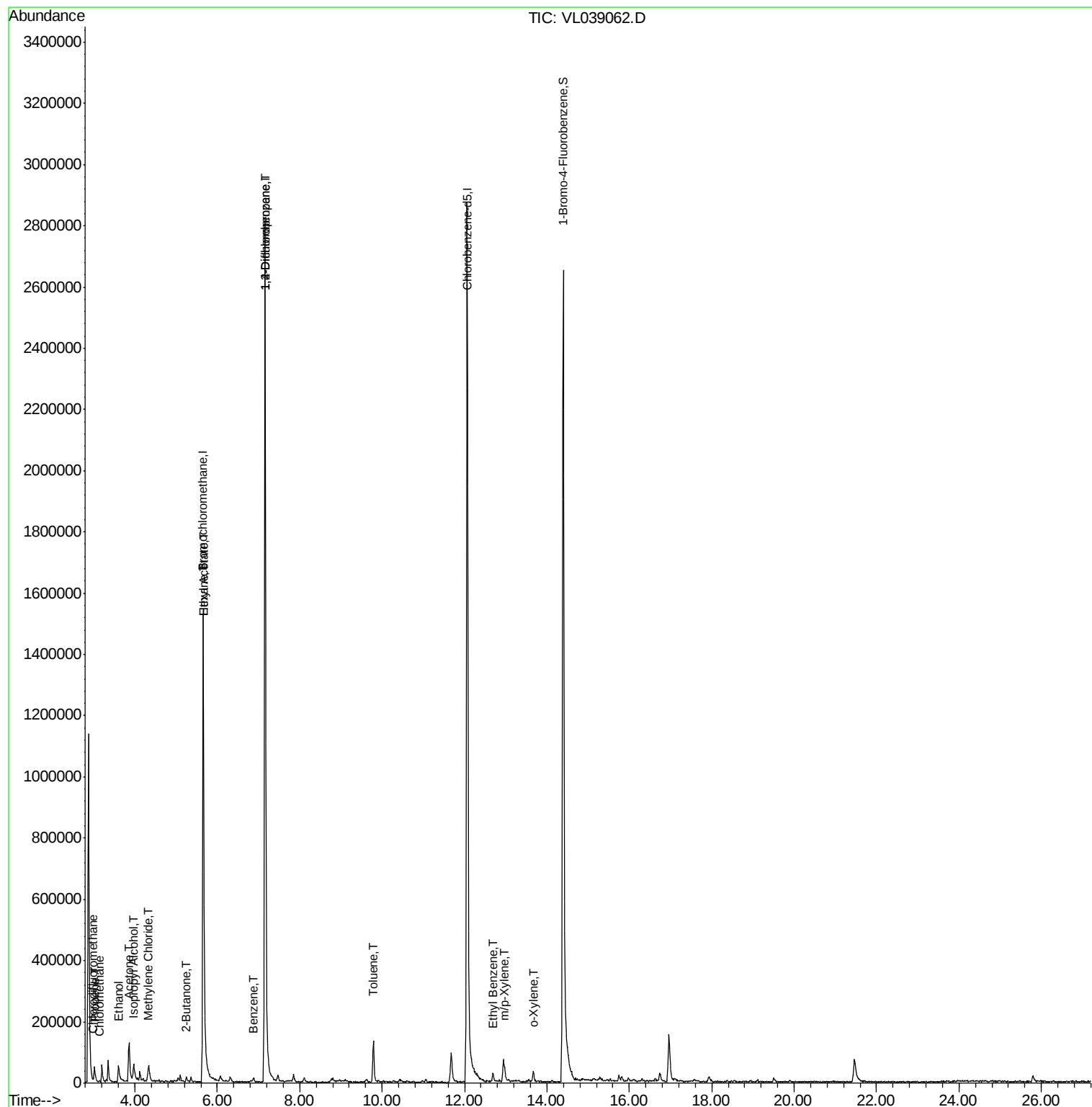
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	11974	0.109	ppbv #	84
4) Chloromethane	3.14	50	2966	0.054	ppbv #	84
9) Propene	3.02	41	12340	0.257	ppbv	87
13) Ethanol	3.61	45	60659	17.835	ppbv	85
15) Acetone	3.85	43	152336	1.821	ppbv	99
19) Isopropyl Alcohol	3.96	45	68252	1.716	ppbv #	90
20) Methylene Chloride	4.33	84	13012	0.413	ppbv #	76
25) Ethyl Acetate	5.67	43	9334	0.047	ppbv #	88
26) Hexane	5.67	57	8155	0.092	ppbv #	52
34) 2-Butanone	5.25	43	18463	0.144	ppbv #	71
36) Benzene	6.88	78	7008	0.033	ppbv #	74
39) 1,2-Dichloropropane	7.16	63	602730	7.222	ppbv #	26
53) Toluene	9.78	91	55663	0.232	ppbv #	21
58) Ethyl Benzene	12.69	91	13680	0.045	ppbv	94
59) m/p-Xylene	12.97	91	12808	0.050	ppbv #	33
60) o-Xylene	13.67	91	8616	0.035	ppbv #	1

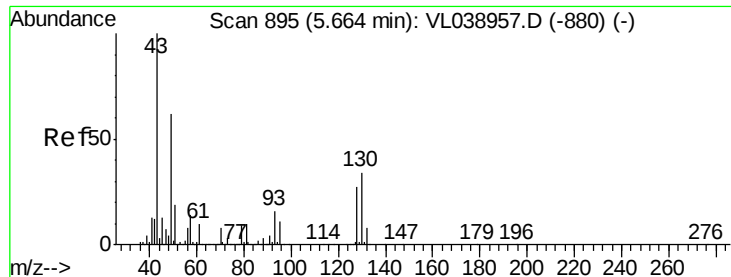
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 7:55

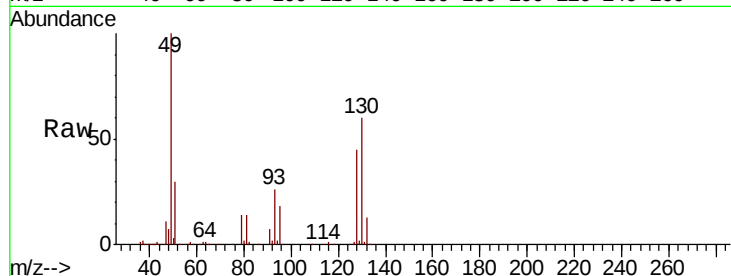
Tot Ion: 49 Resp: 886906

Ion Ratio Lower Upper

49 100

128 51.7 23.3 69.8

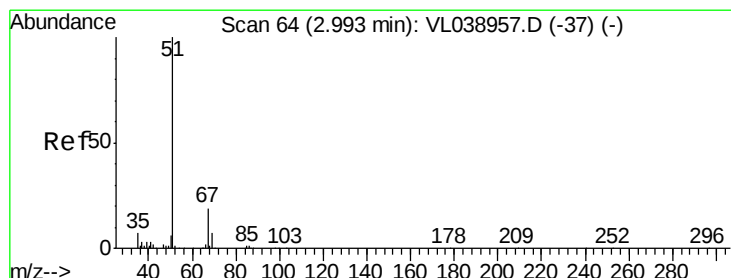
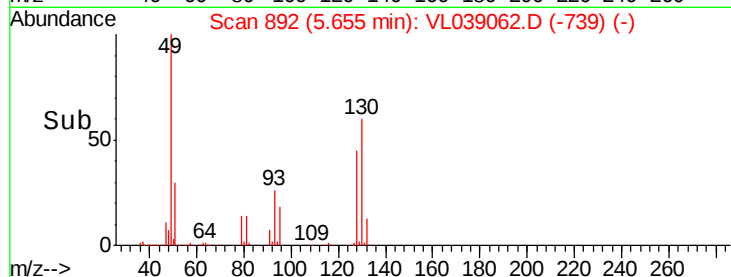
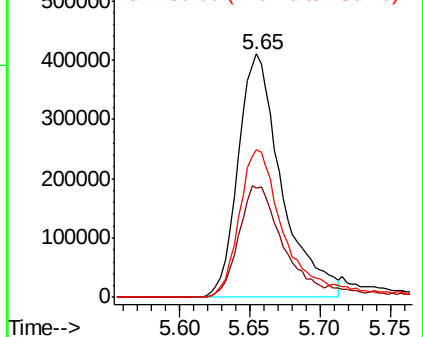
130 66.6 29.8 89.3



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



#3

Chlorodifluoromethane

Concen: 0.109 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL039062.D

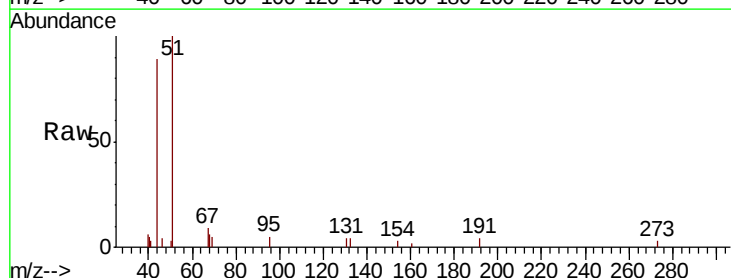
Acq: 14 May 2022 7:55

Tgt Ion: 51 Resp: 11974

Ion Ratio Lower Upper

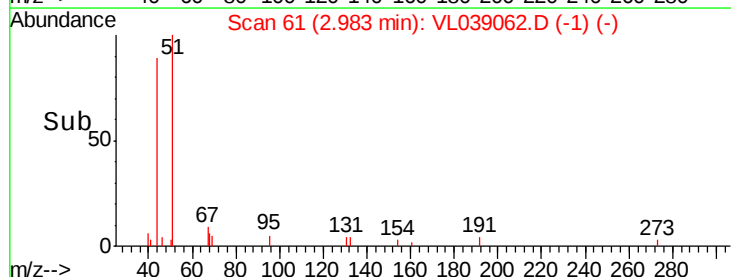
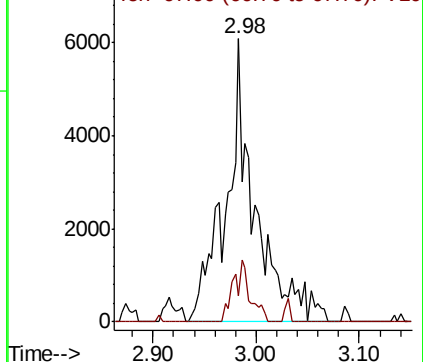
51 100

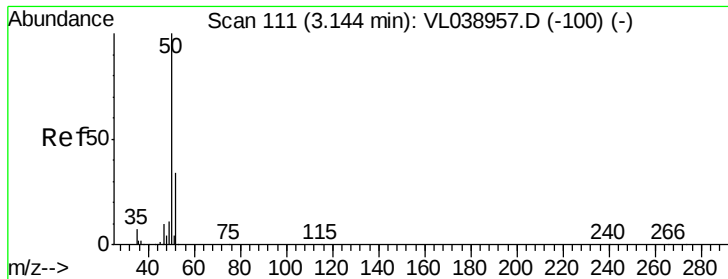
67 12.4 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.054 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

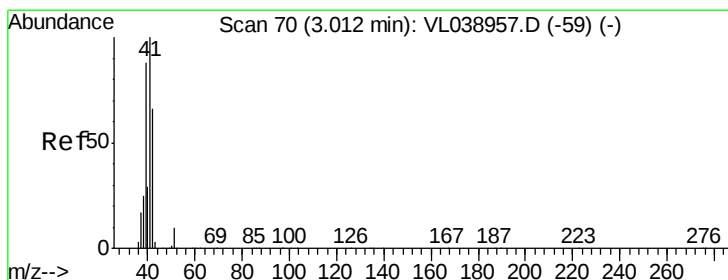
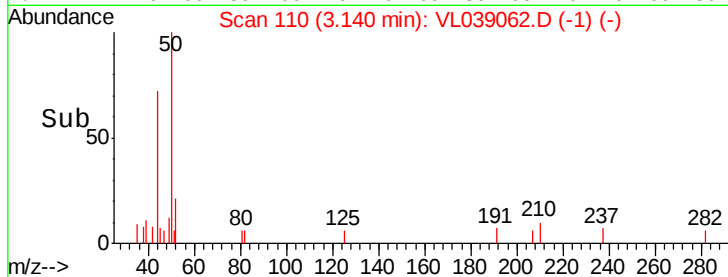
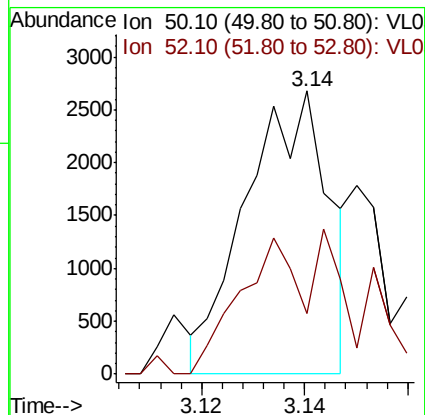
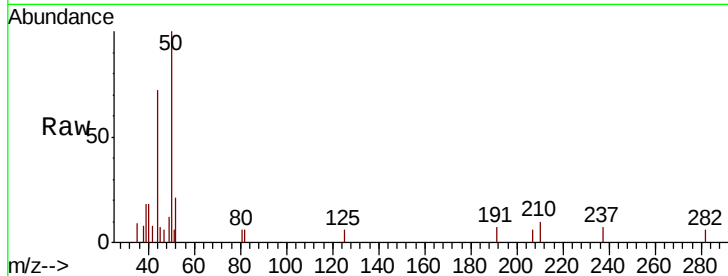
Acq: 14 May 2022 7:55

Tot Ion: 50 Resp: 2966

Ion Ratio Lower Upper

50 100

52 24.7 27.3 40.9#



#9

Propene

Concen: 0.257 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL039062.D

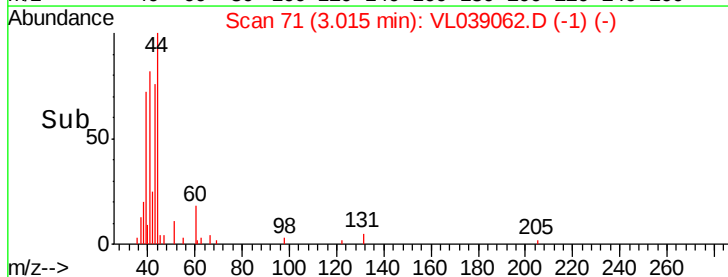
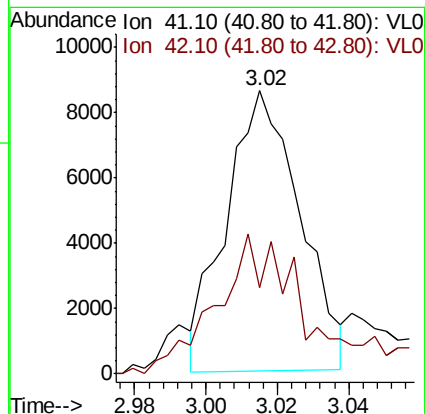
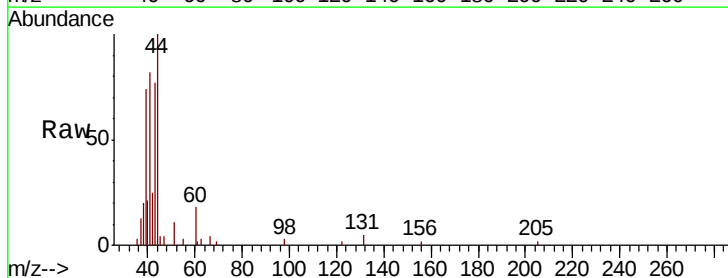
Acq: 14 May 2022 7:55

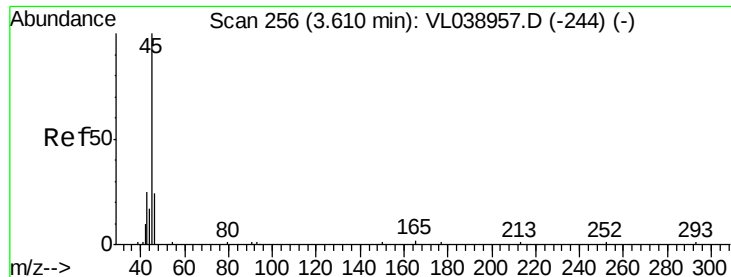
Tgt Ion: 41 Resp: 12340

Ion Ratio Lower Upper

41 100

42 61.7 58.3 87.5





#13

Ethanol

Concen: 17.835 ppbv

RT: 3.61

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

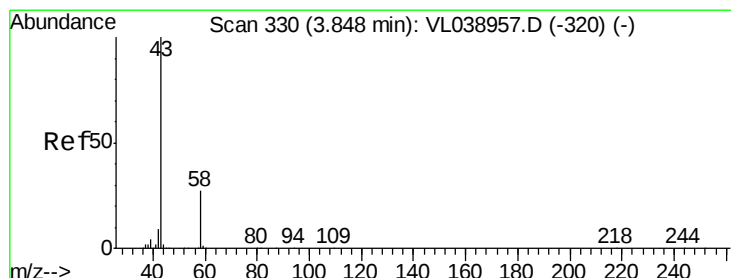
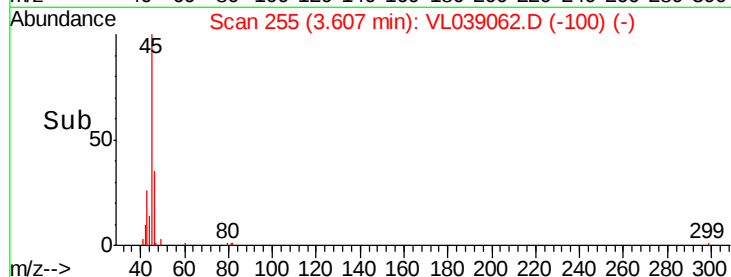
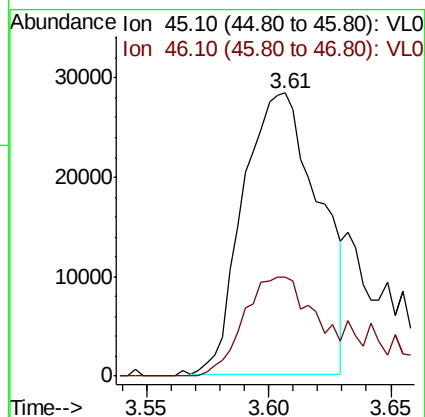
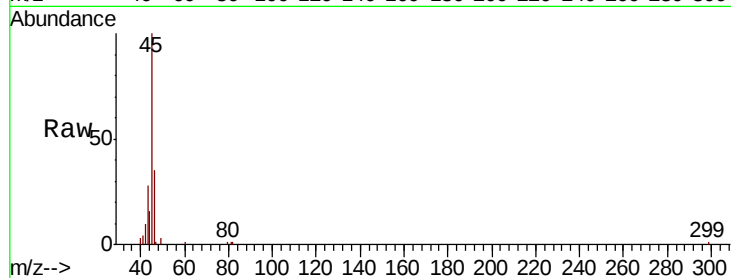
Acq: 14 May 2022 7:55

Tot Ion: 45 Resp: 60659

Ion Ratio Lower Upper

45 100

46 55.2 18.0 72.2



#15

Acetone

Concen: 1.821 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL039062.D

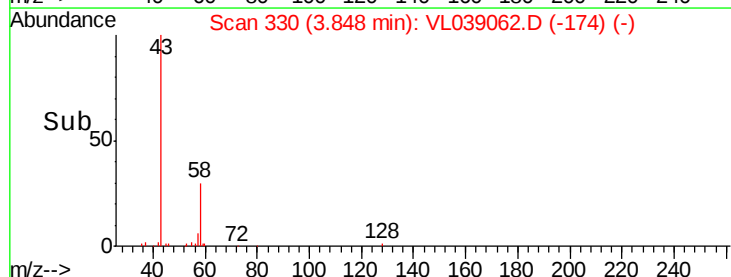
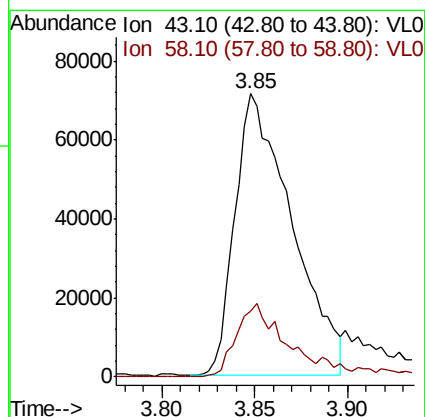
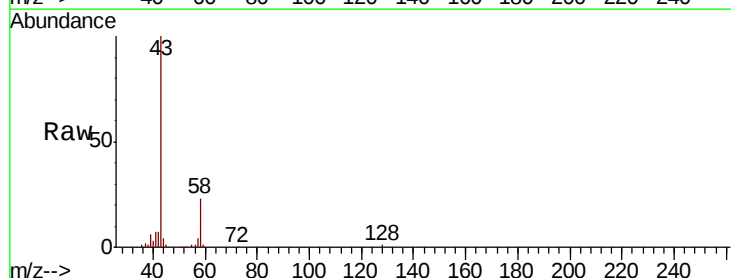
Acq: 14 May 2022 7:55

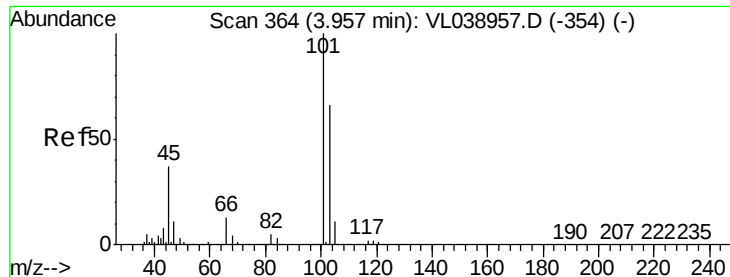
Tgt Ion: 43 Resp: 152336

Ion Ratio Lower Upper

43 100

58 25.9 21.3 31.9





#19

Isopropyl Alcohol

Concen: 1.716 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

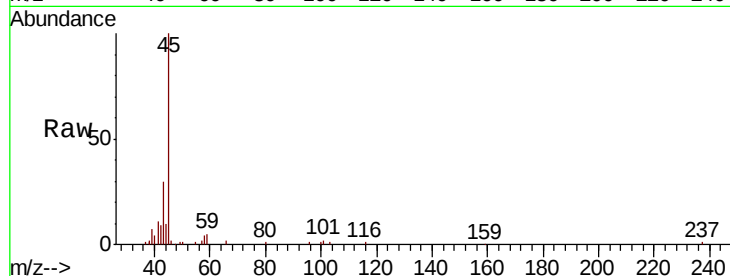
Acq: 14 May 2022 7:55

Tot Ion: 45 Resp: 68252

Ion Ratio Lower Upper

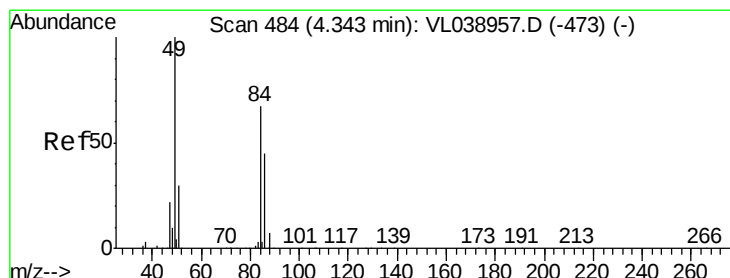
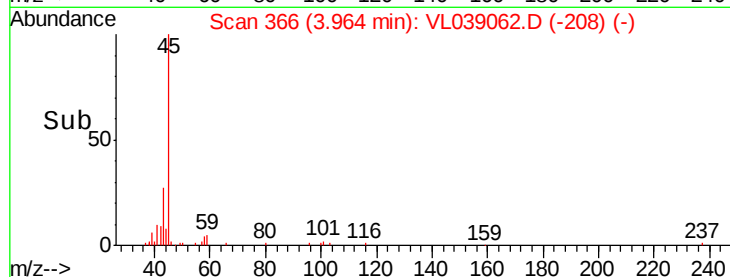
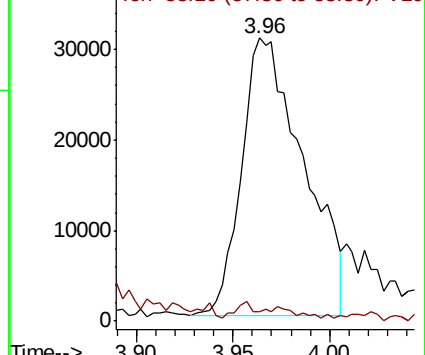
45 100

58 5.3 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.413 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL039062.D

Acq: 14 May 2022 7:55

Tgt Ion: 84 Resp: 13012

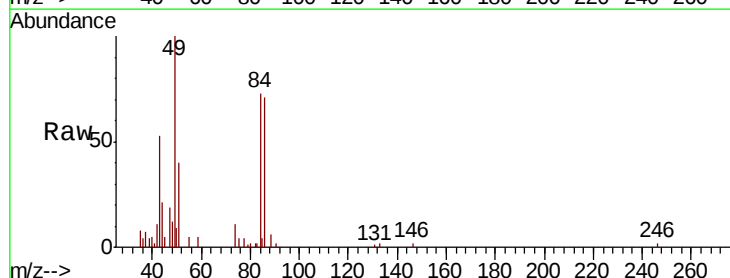
Ion Ratio Lower Upper

84 100

49 125.9 119.9 179.9

51 54.4 35.7 53.5#

86 99.7 53.8 80.6#

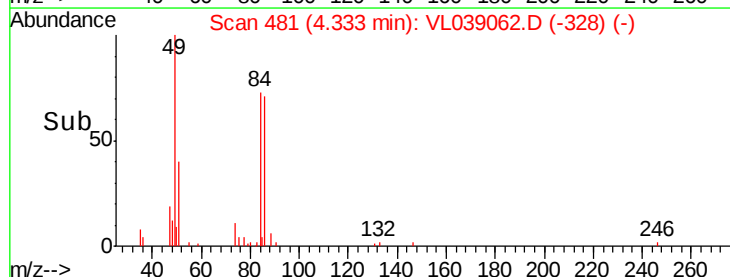
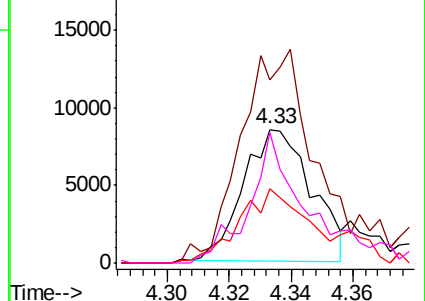


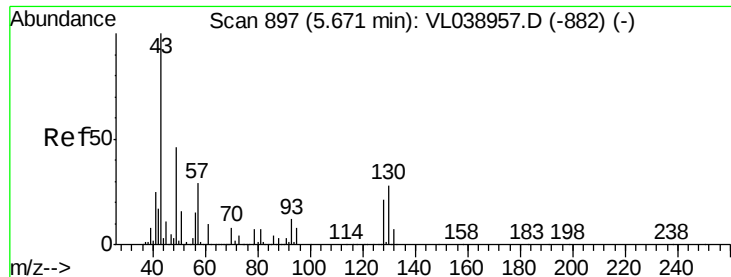
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

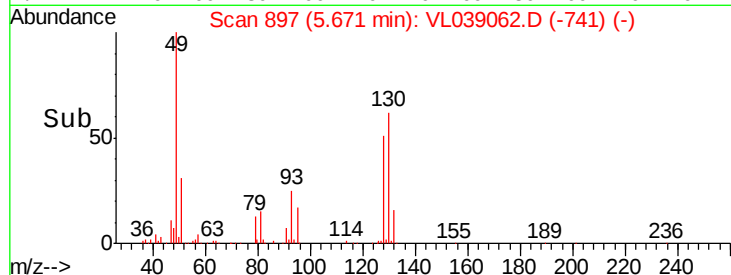
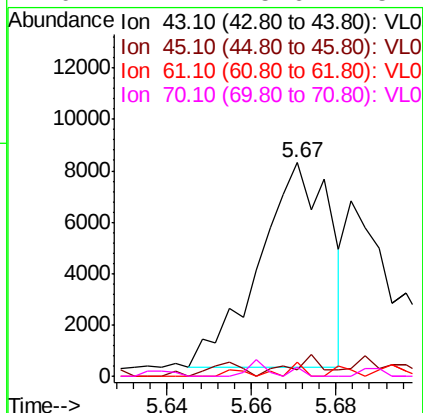
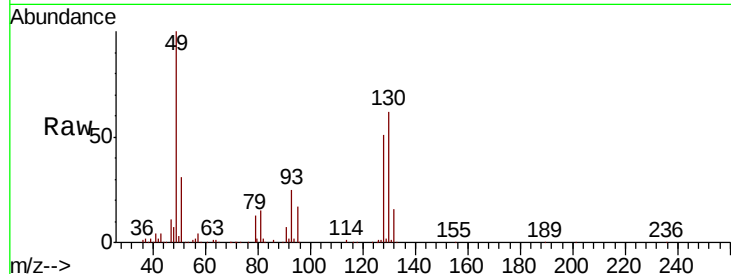
Ion 86.00 (85.70 to 86.70): VL0





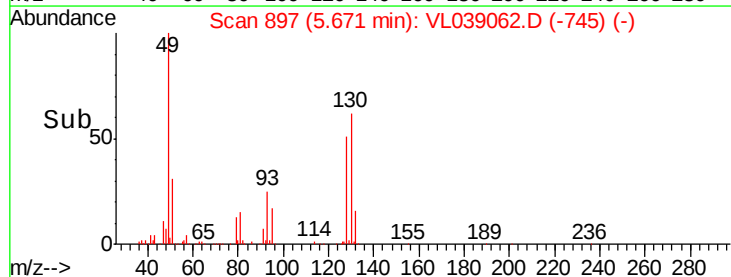
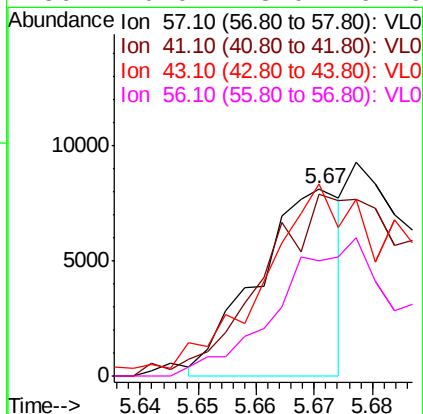
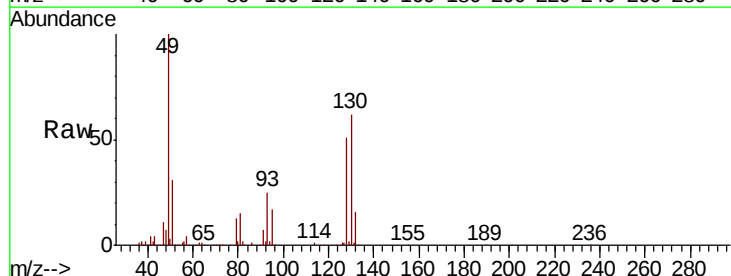
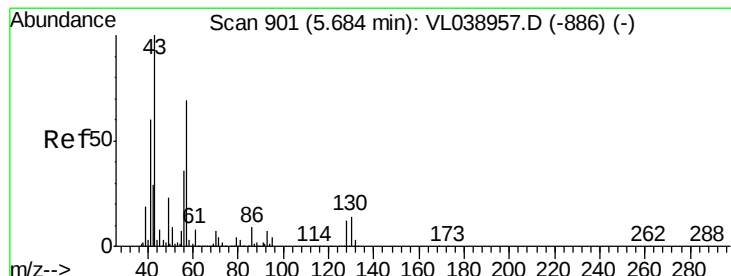
#25
Ethyl Acetate
Concen: 0.047 ppbv
RT: 5.67 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SG-7DL
Acq: 14 May 2022 7:55

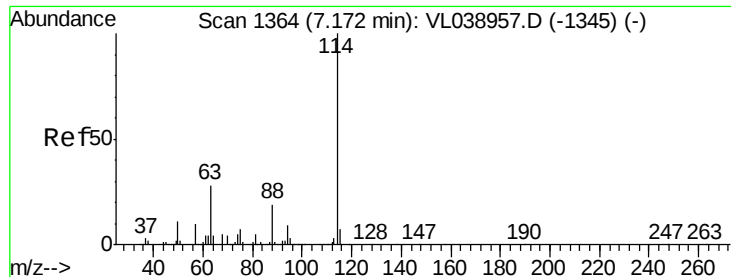
Tot Ion:	43	Resp:	9334
Ion	Ratio	Lower	Upper
43	100		
45	11.6	8.1	12.1
61	2.5	7.8	11.6#
70	2.7	5.6	8.4#



#26
Hexane
Concen: 0.092 ppbv
RT: 5.67 min Scan# 897
Delta R.T.: -0.01 min
Lab File: VL039062.D
Acq: 14 May 2022 7:55

Tgt Ion:	57	Resp:	8155
Ion	Ratio	Lower	Upper
57	100		
41	211.4	75.2	112.8#
43	217.2	190.8	286.2
56	0.0	43.0	64.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 7:55

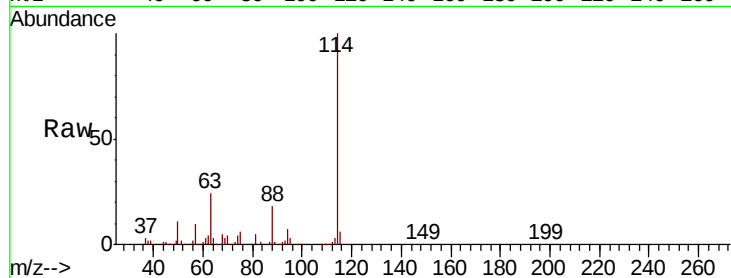
Tot Ion:114 Resp: 2506475

Ion Ratio Lower Upper

114 100

63 24.4 22.6 33.8

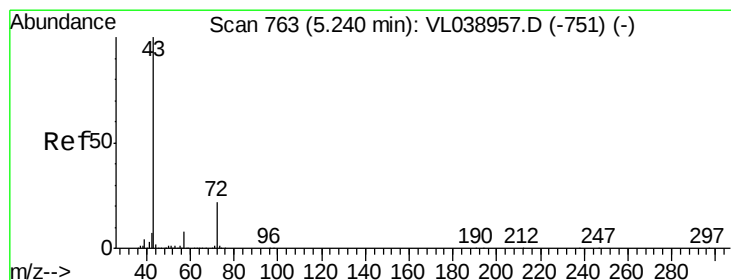
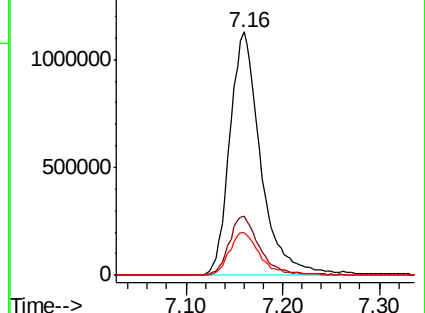
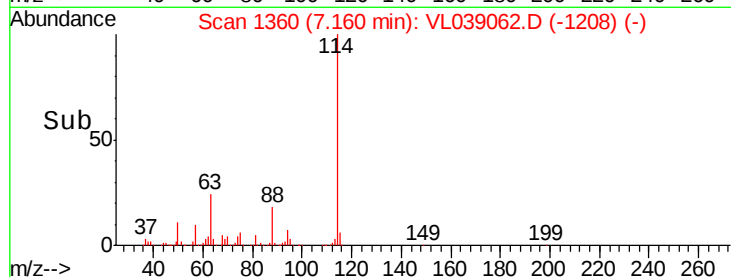
88 17.9 15.4 23.0



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: 0.144 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.01 min

Lab File: VL039062.D

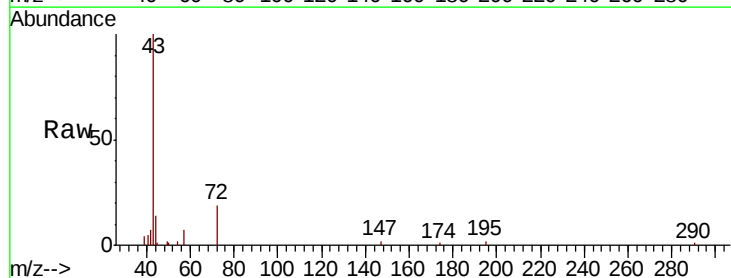
Acq: 14 May 2022 7:55

Tgt Ion: 43 Resp: 18463

Ion Ratio Lower Upper

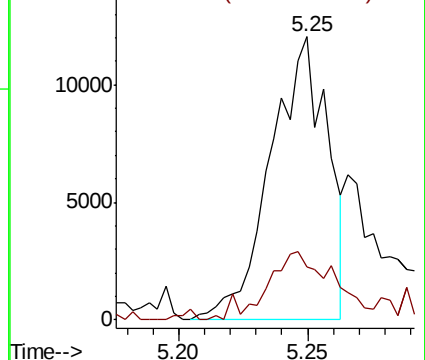
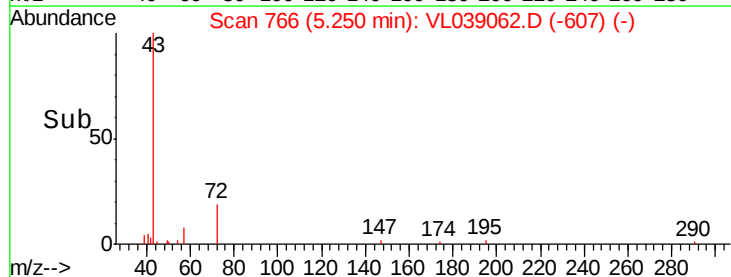
43 100

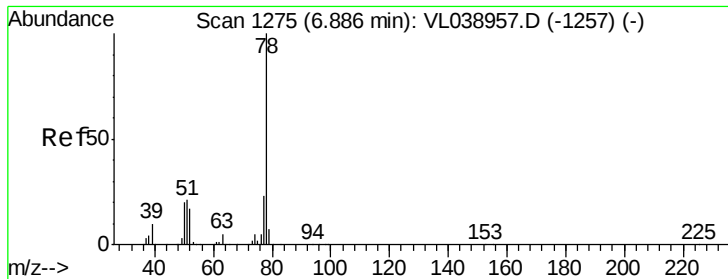
72 36.1 17.8 26.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

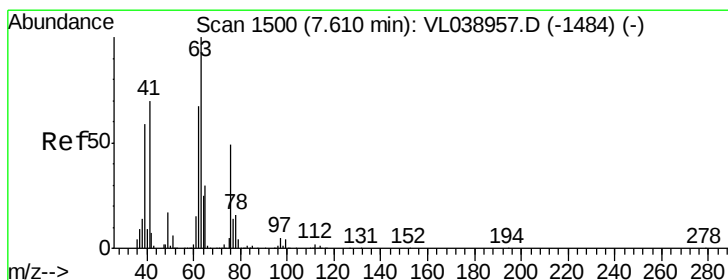
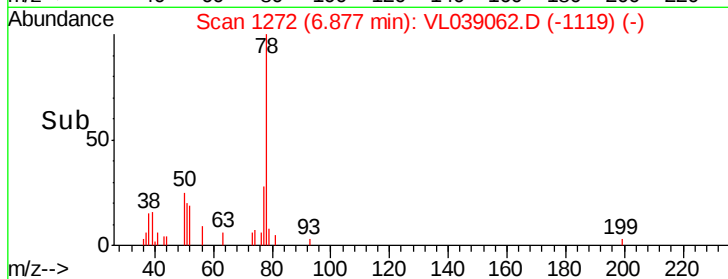
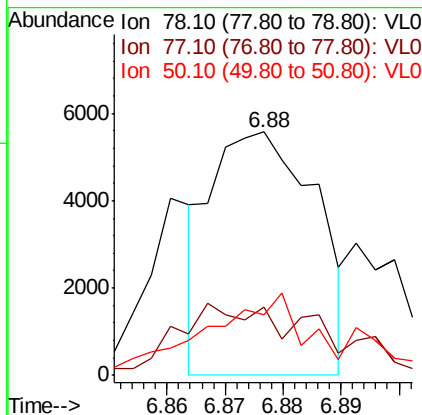
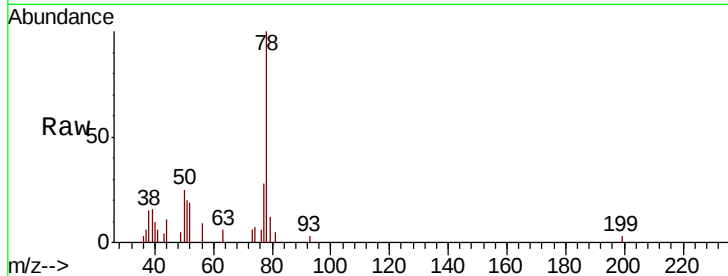
Ion 72.10 (71.80 to 72.80): VL0





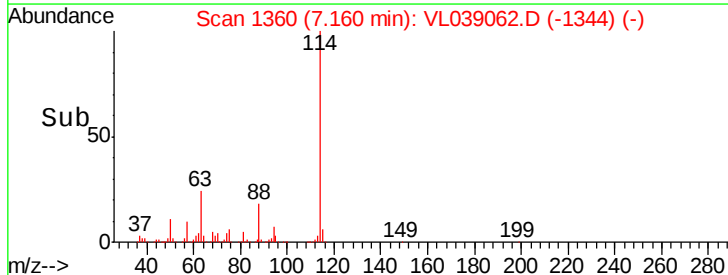
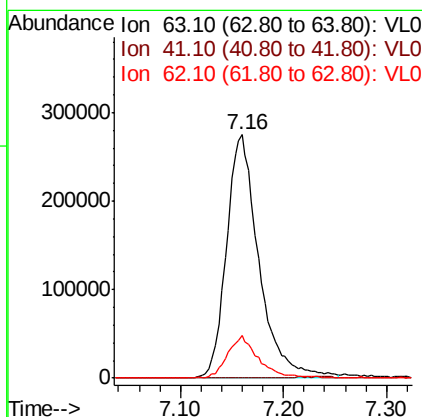
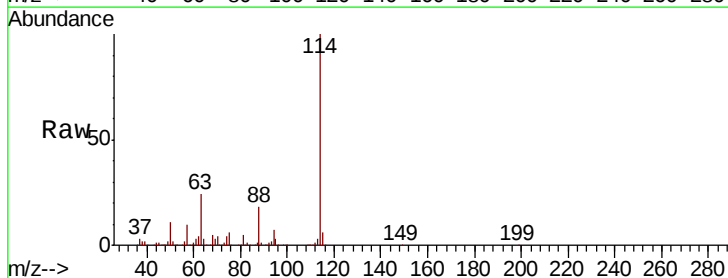
#36
Benzene
Concen: 0.033 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 14 May 2022 7:55

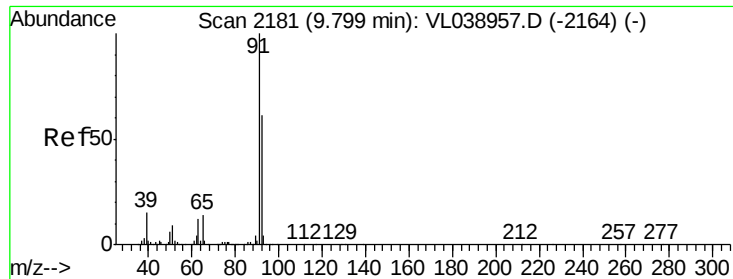
Tot Ion	Ratio	Lower	Upper
78	100		
77	34.0	18.6	28.0#
50	33.4	15.6	23.4#



#39
1,2-Dichloropropane
Concen: 7.222 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.45 min
Lab File: VL039062.D
Acq: 14 May 2022 7:55

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	17.3	53.8	80.6#





#53

Toluene

Concen: 0.232 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

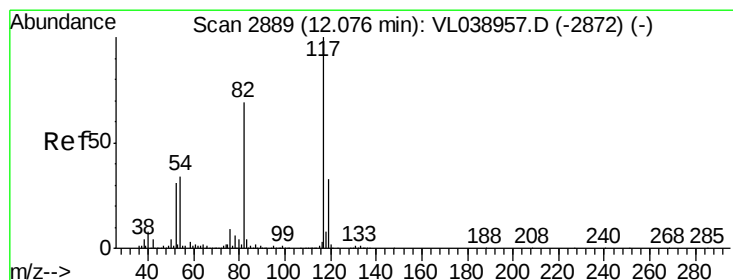
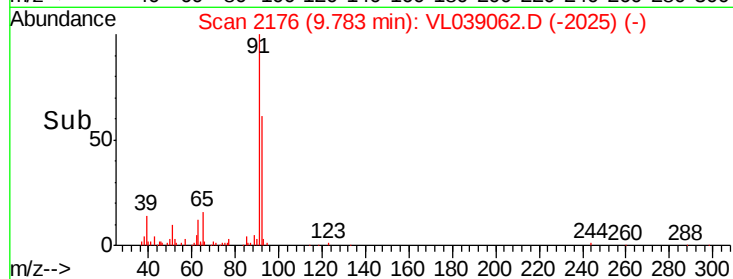
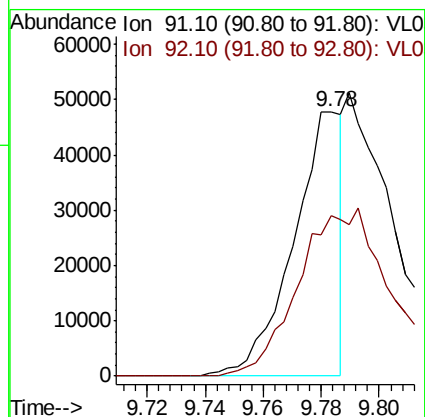
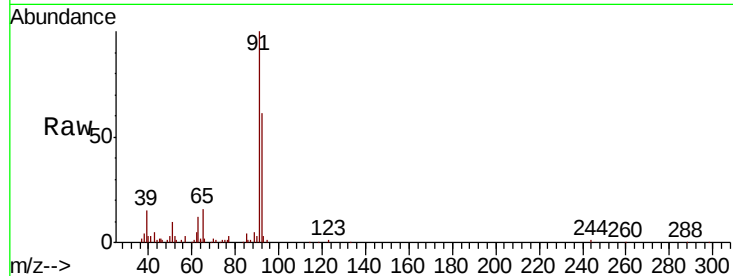
Acq: 14 May 2022 7:55

Tot Ion: 91 Resp: 55663

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL039062.D

Acq: 14 May 2022 7:55

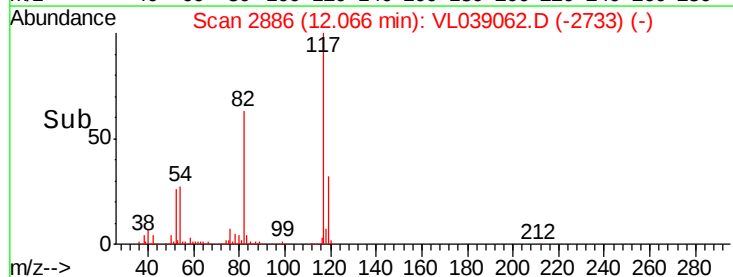
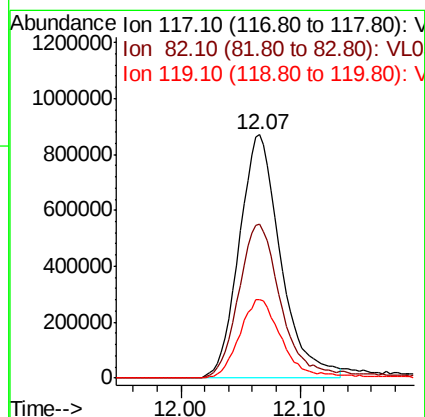
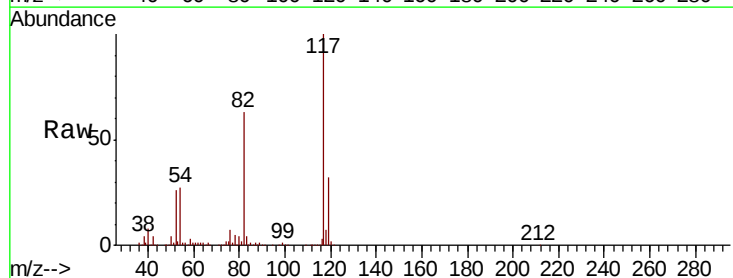
Tgt Ion: 117 Resp: 2102538

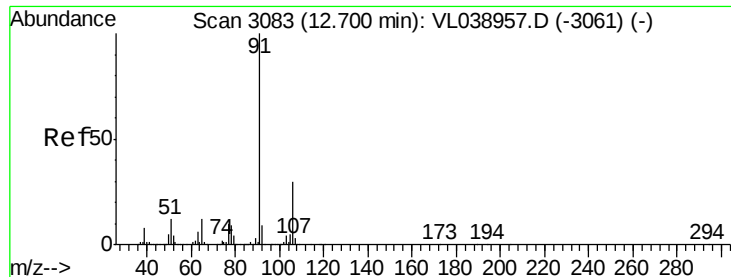
Ion Ratio Lower Upper

117 100

82 66.6 57.0 85.6

119 34.8 27.2 40.8





#58

Ethyl Benzene

Concen: 0.045 ppbv

RT: 12.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

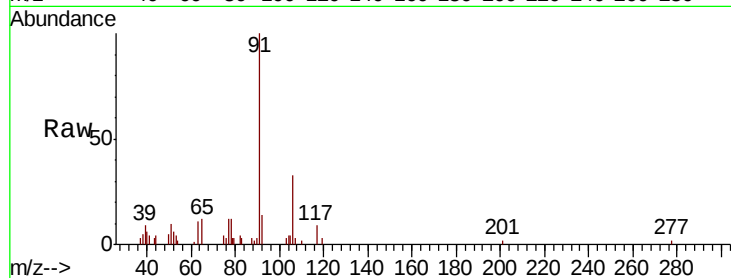
Acq: 14 May 2022 7:55

Tot Ion: 91 Resp: 13680

Ion Ratio Lower Upper

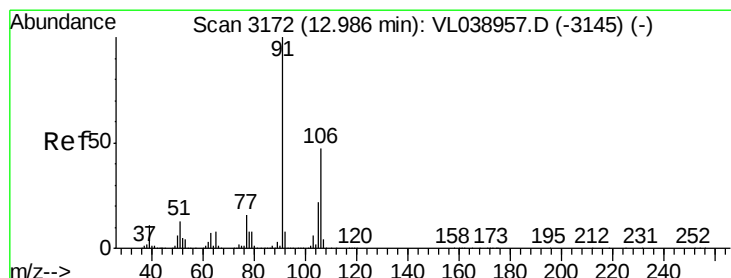
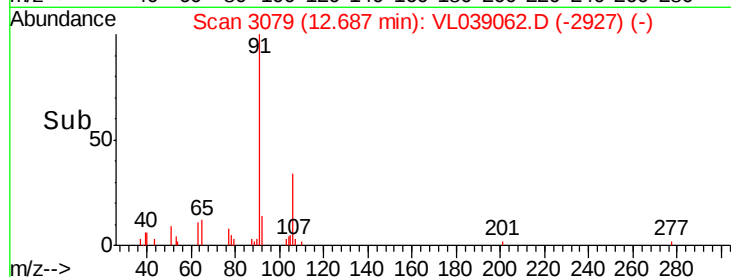
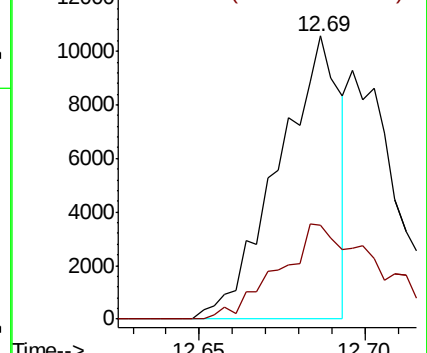
91 100

106 33.3 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.050 ppbv

RT: 12.97 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL039062.D

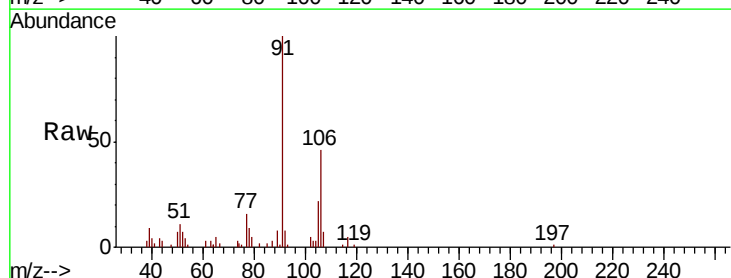
Acq: 14 May 2022 7:55

Tgt Ion: 91 Resp: 12808

Ion Ratio Lower Upper

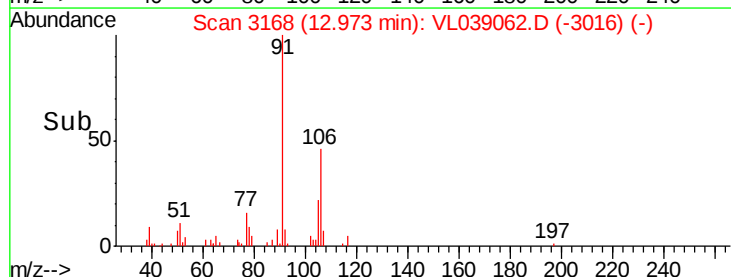
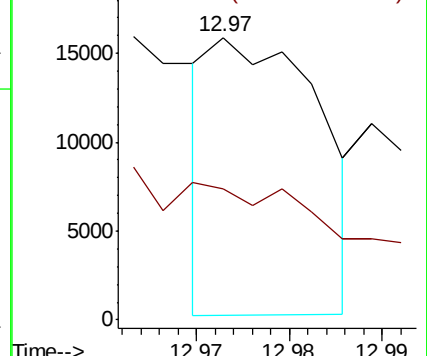
91 100

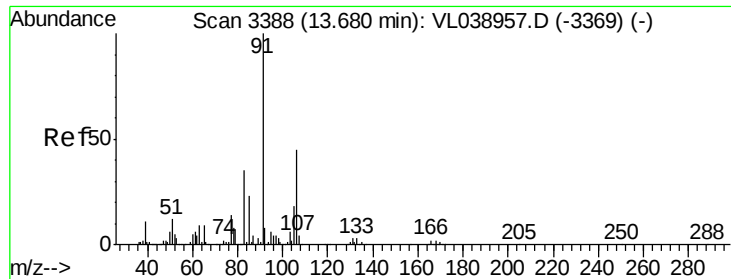
106 0.0 34.6 52.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

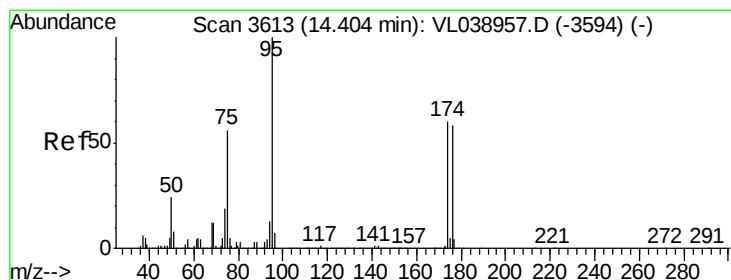
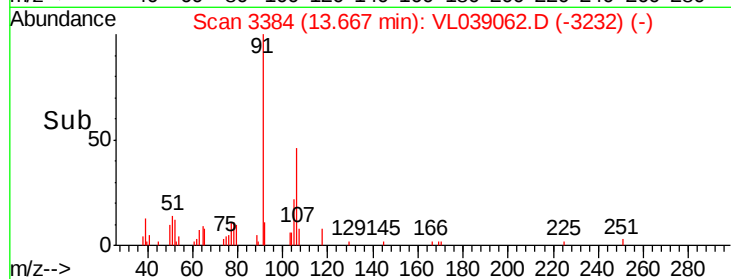
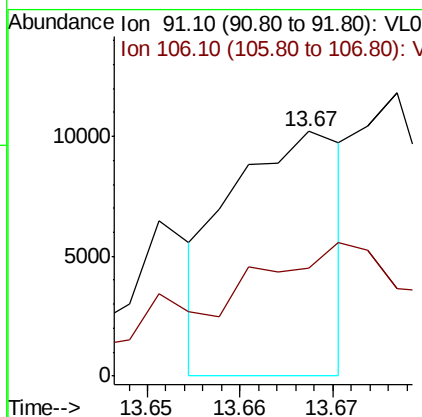
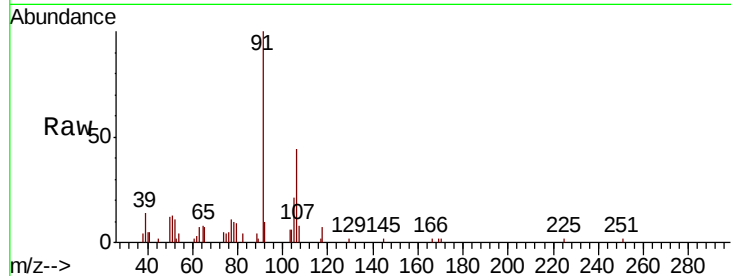
Ion 106.10 (105.80 to 106.80): V





#60
o-Xylene
Concen: 0.035 ppbv
RT: 13.67 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 7:55

Tot Ion: 91 Resp: 8616
Ion Ratio Lower Upper
91 100
106 145.6 22.2 66.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.209 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.01 min
Lab File: VL039062.D
Acq: 14 May 2022 7:55

Tgt Ion: 95 Resp: 1533332
Ion Ratio Lower Upper
95 100
174 67.6 50.8 76.2
175 5.1 3.8 5.6

