

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037229.D
 Acq On : 22 Jun 2021 23:15
 Operator : SY/AP
 Sample : M2807-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 23 01:43:40 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1673291	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4910872	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4392204	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3337077	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

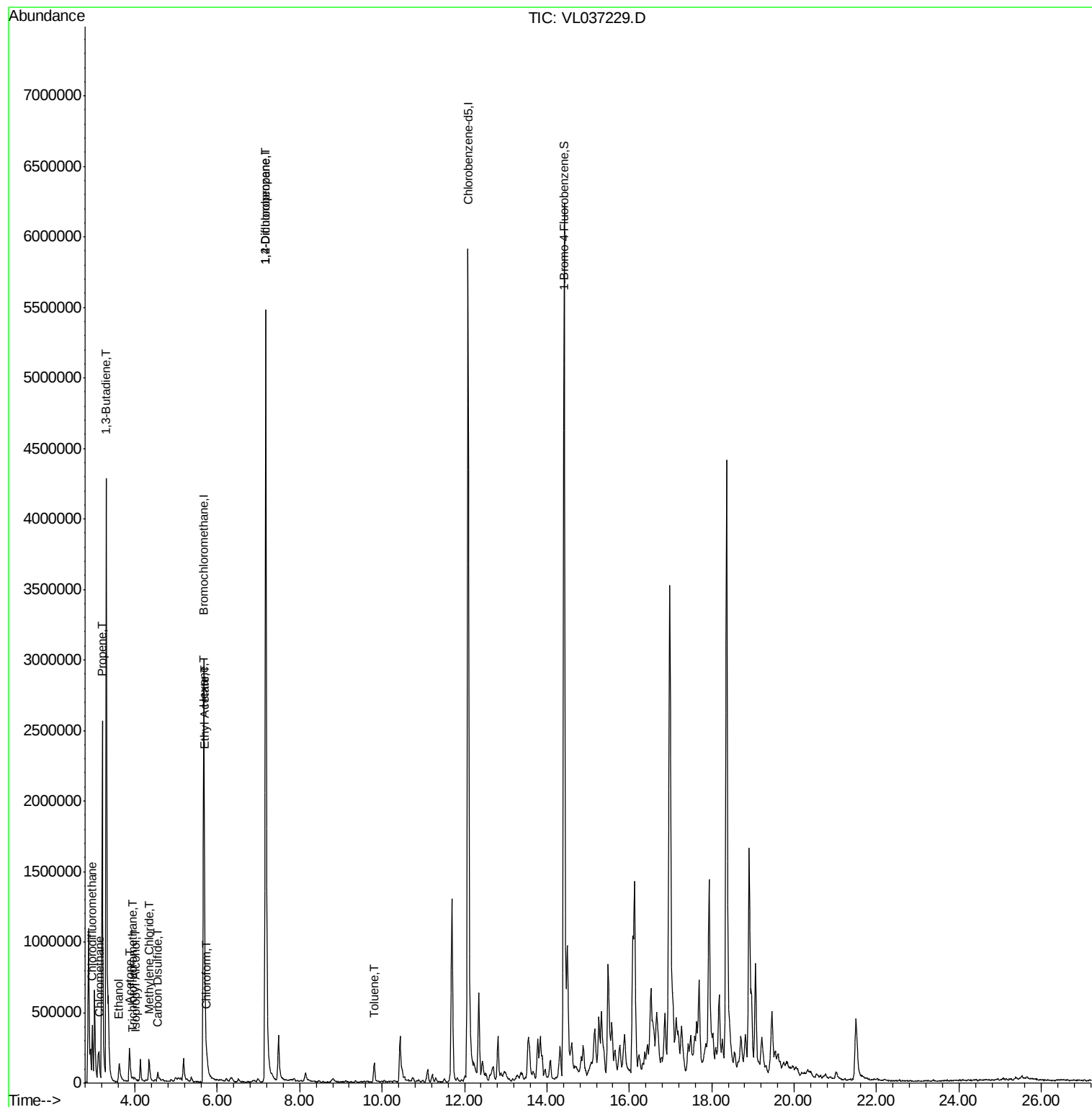
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	343244	1.055	ppbv #	58
4) Chloromethane	3.15	50	4949	0.046	ppbv #	80
9) Propene	3.20	41	971282	9.336	ppbv	91
11) Trichlorofluoromethane	3.95	101	9512	0.031	ppbv	90
13) Ethanol	3.62	45	174182	10.823	ppbv	58
15) Acetone	3.87	43	224052	1.187	ppbv #	78
16) 1,3-Butadiene	3.30	39	1639612	14.698	ppbv #	16
19) Isopropyl Alcohol	4.00	45	5501	0.048	ppbv #	91
20) Methylene Chloride	4.35	84	65334	0.578	ppbv	97
25) Ethyl Acetate	5.69	43	44334	0.109	ppbv #	84
26) Hexane	5.69	57	61015	0.296	ppbv #	47
27) Carbon Disulfide	4.56	76	85473	0.423	ppbv #	92
29) Chloroform	5.75	83	28768	0.090	ppbv	93
39) 1,2-Dichloropropane	7.18	63	1209610	8.197	ppbv #	22
53) Toluene	9.81	91	114105	0.241	ppbv	100

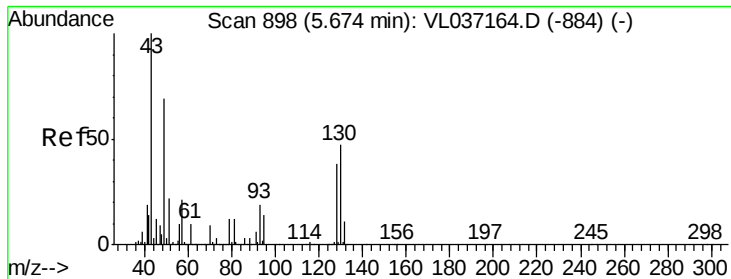
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL037229.D

Acq: 22 Jun 2021 23:15

Instrument :

MSVOA_L

ClientSampled :

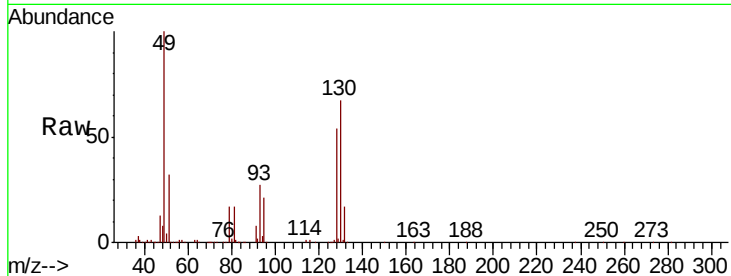
Tot Ion: 49 Resp: 1673291

Ion Ratio Lower Upper

49 100

128 56.2 29.3 88.0

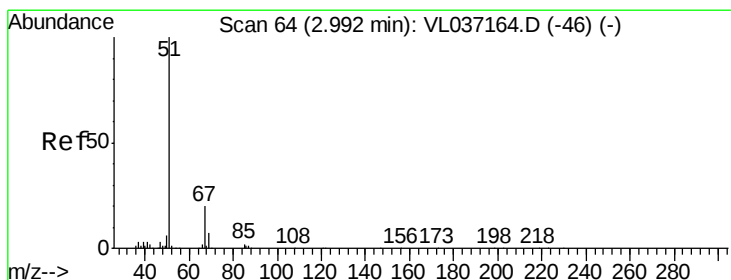
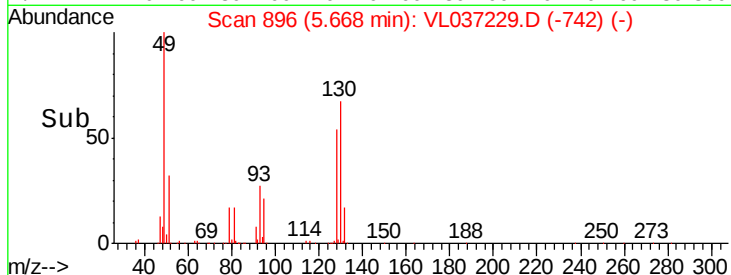
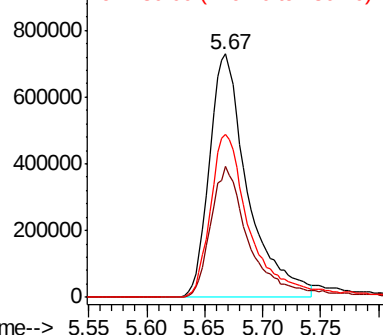
130 72.4 35.9 107.8



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



#3

Chlorodifluoromethane

Concen: 1.055 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.03 min

Lab File: VL037229.D

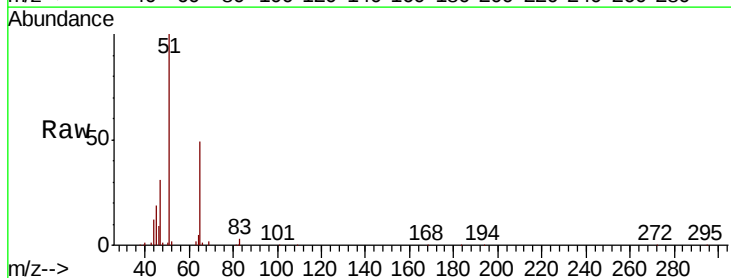
Acq: 22 Jun 2021 23:15

Tgt Ion: 51 Resp: 343244

Ion Ratio Lower Upper

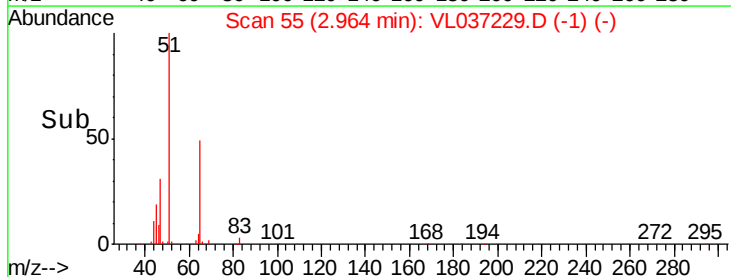
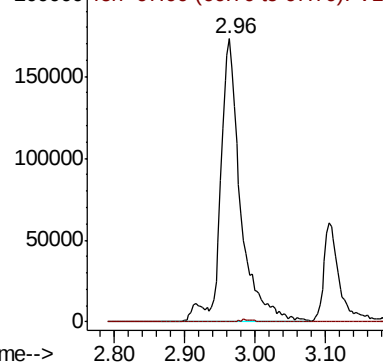
51 100

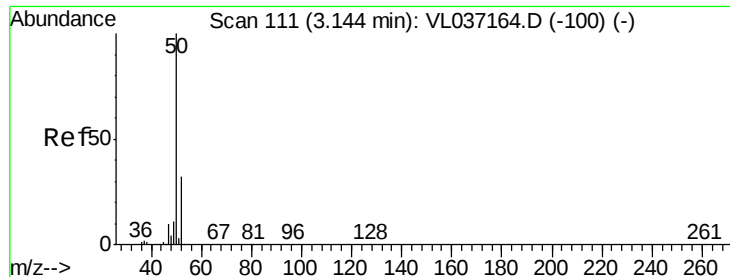
67 0.6 15.8 23.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.046 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL037229.D

Acq: 22 Jun 2021 23:15

Instrument :

MSVOA_L

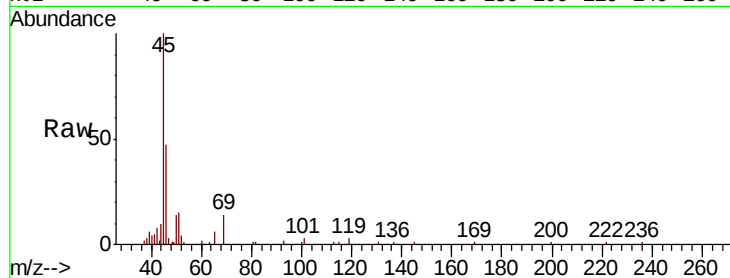
ClientSampleId :

Tot Ion: 50 Resp: 4949

Ion Ratio Lower Upper

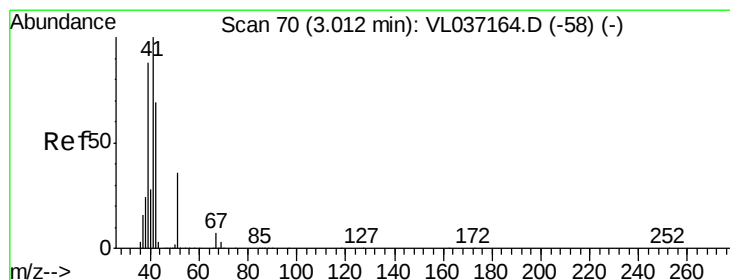
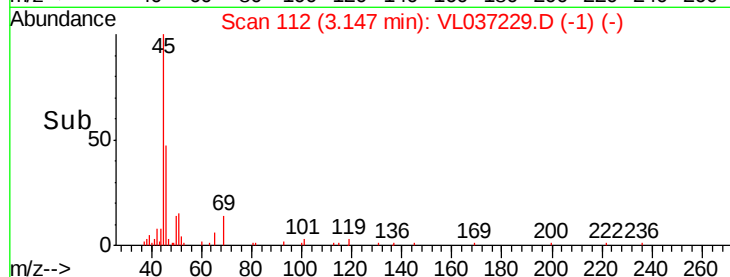
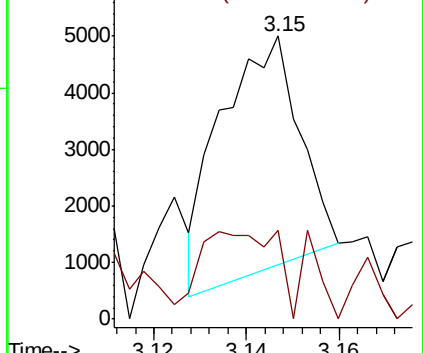
50 100

52 43.2 25.8 38.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 9.336 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.19 min

Lab File: VL037229.D

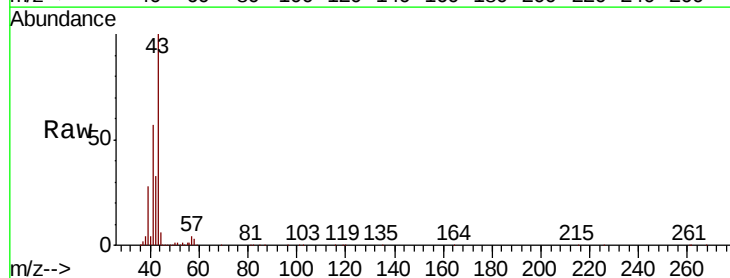
Acq: 22 Jun 2021 23:15

Tgt Ion: 41 Resp: 971282

Ion Ratio Lower Upper

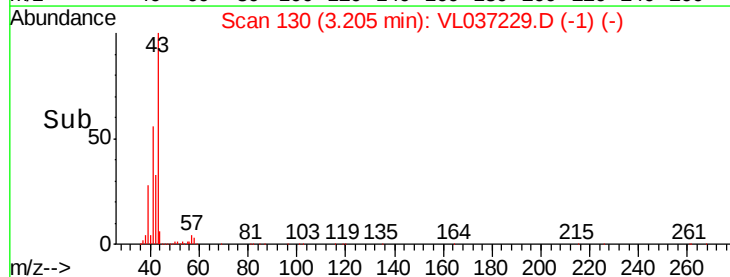
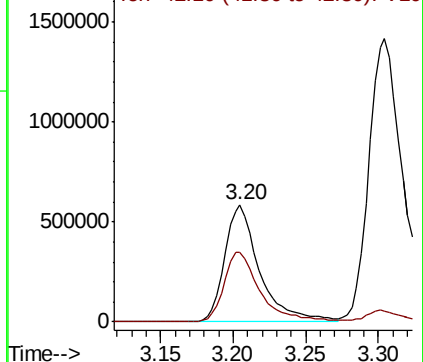
41 100

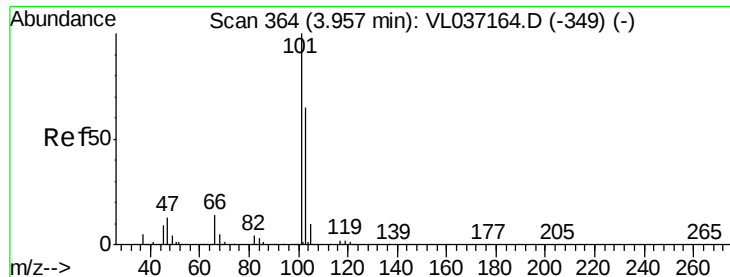
42 61.2 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

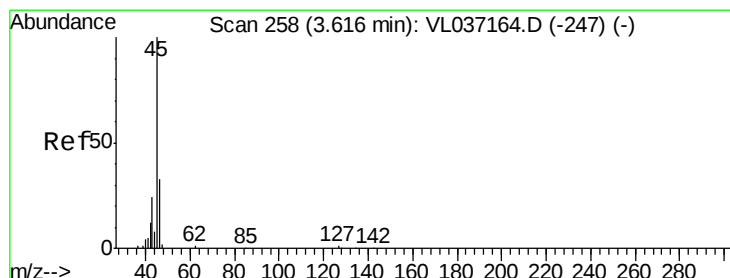
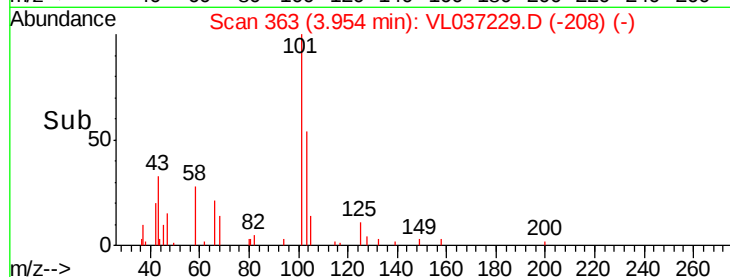
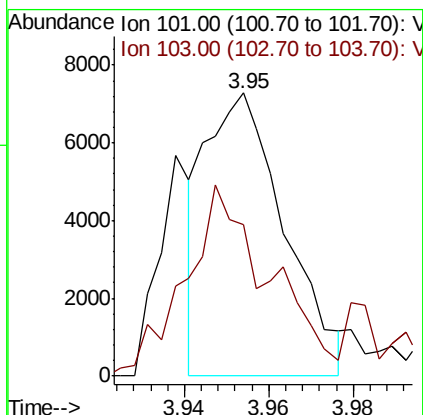
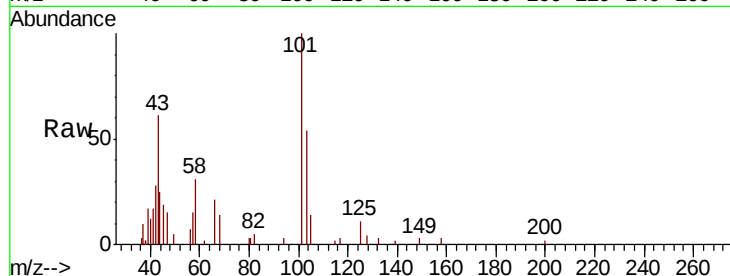




#11
 Trichlorofluoromethane
 Concen: 0.031 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VL037229.D
 Acq: 22 Jun 2021 23:15

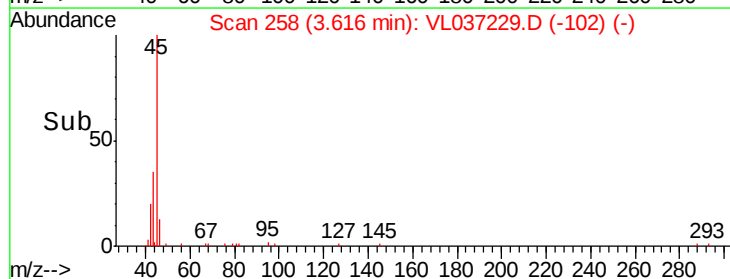
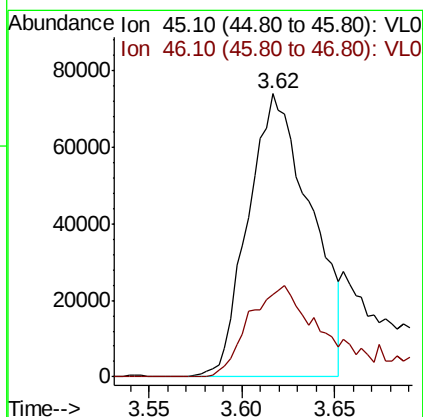
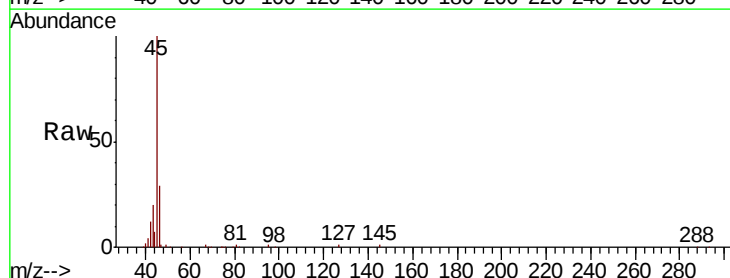
Instrument :
 MSVOA_L
 ClientSampleId :

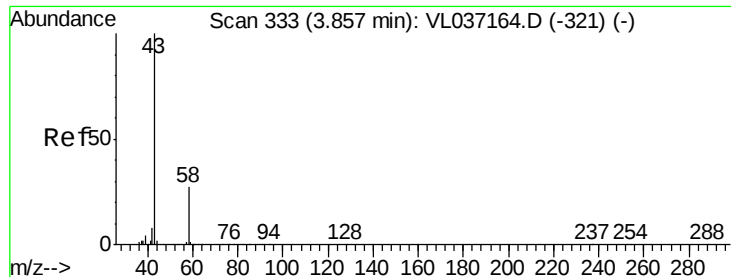
Tot Ion:101 Resp: 9512
 Ion Ratio Lower Upper
 101 100
 103 57.2 52.2 78.4



#13
 Ethanol
 Concen: 10.823 ppbv
 RT: 3.62 min Scan# 258
 Delta R.T. 0.00 min
 Lab File: VL037229.D
 Acq: 22 Jun 2021 23:15

Tgt Ion: 45 Resp: 174182
 Ion Ratio Lower Upper
 45 100
 46 46.9 34.2 137.0

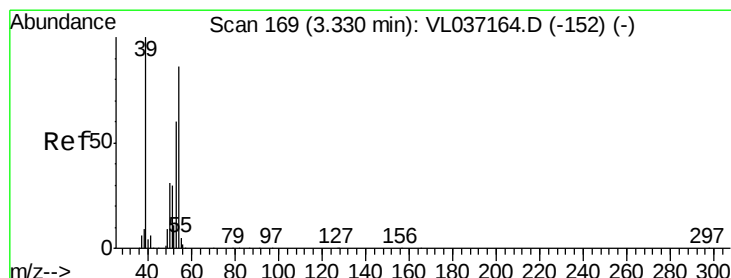
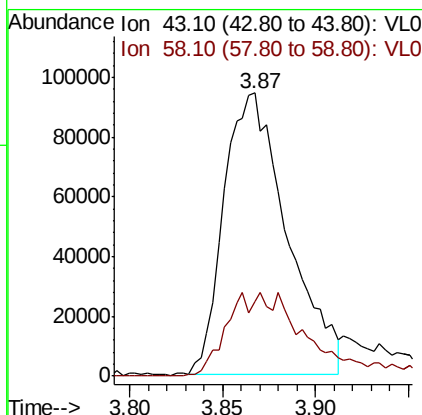
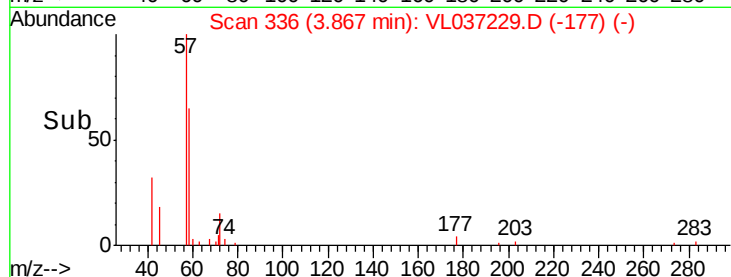
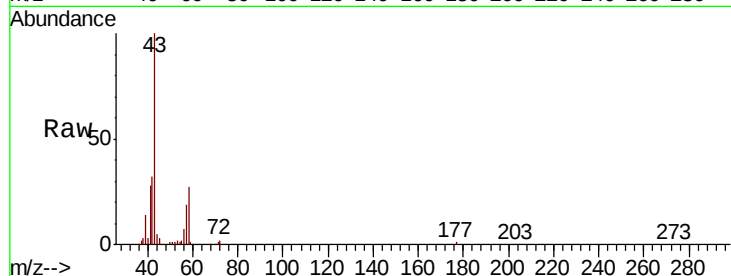




#15
Acetone
Concen: 1.187 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.01 min
Lab File: VL037229.D
Acq: 22 Jun 2021 23:15

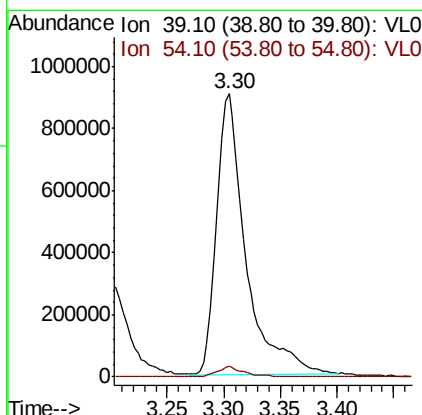
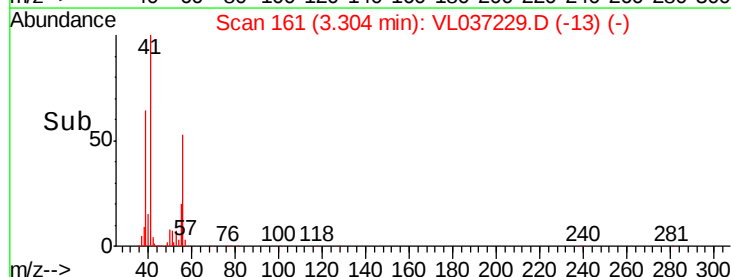
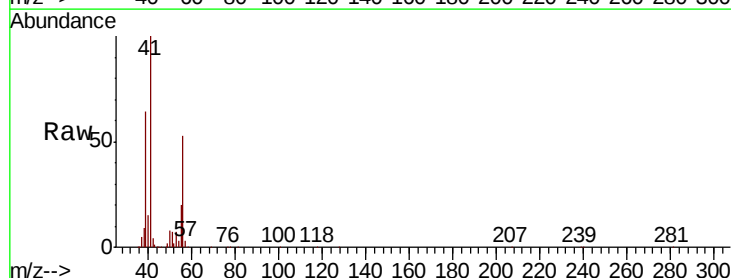
Instrument :
MSVOA_L
ClientSampleId :

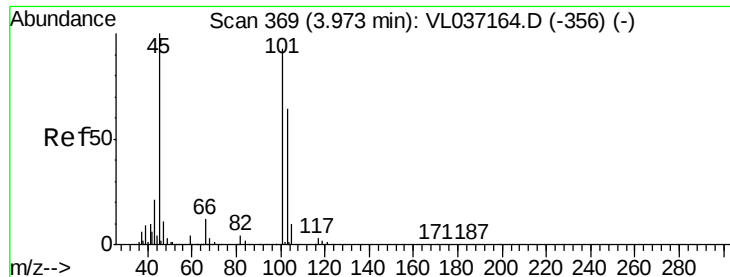
Tot Ion: 43 Resp: 224052
Ion Ratio Lower Upper
43 100
58 41.2 23.7 35.5#



#16
1,3-Butadiene
Concen: 14.698 ppbv
RT: 3.30 min Scan# 161
Delta R.T. -0.03 min
Lab File: VL037229.D
Acq: 22 Jun 2021 23:15

Tgt Ion: 39 Resp: 1639612
Ion Ratio Lower Upper
39 100
54 3.8 61.2 91.8#





#19

Isopropyl Alcohol

Concen: 0.048 ppbv

RT: 4.00 min Scan# 377

Delta R.T. 0.03 min

Lab File: VL037229.D

Acq: 22 Jun 2021 23:15

Instrument :

MSVOA_L

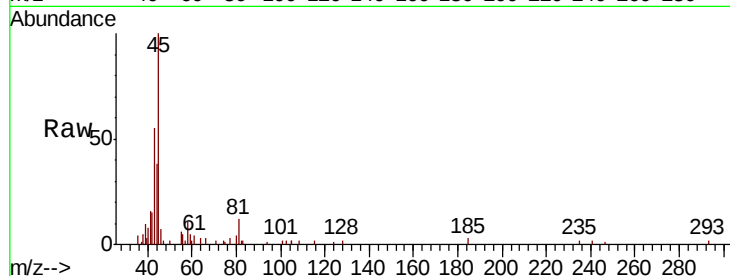
ClientSampleId :

Tot Ion: 45 Resp: 5501

Ion Ratio Lower Upper

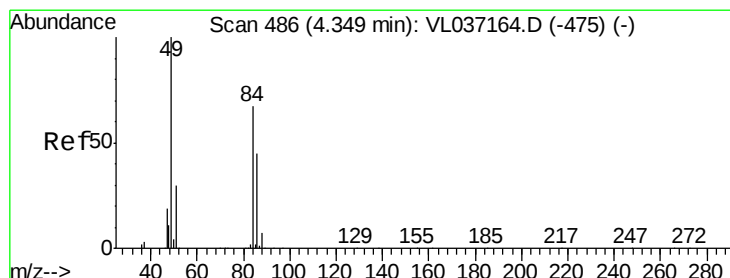
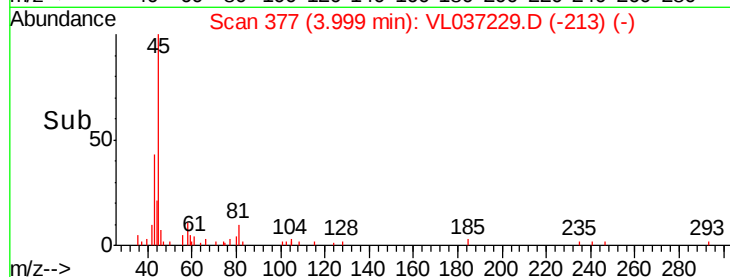
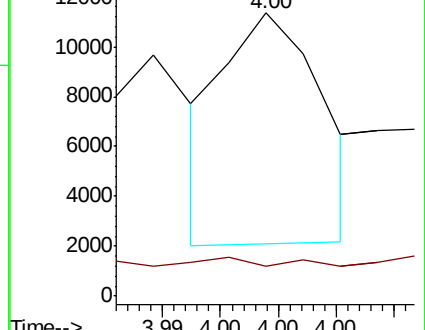
45 100

58 0.0 2.4 3.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.578 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.00 min

Lab File: VL037229.D

Acq: 22 Jun 2021 23:15

Tgt Ion: 84 Resp: 65334

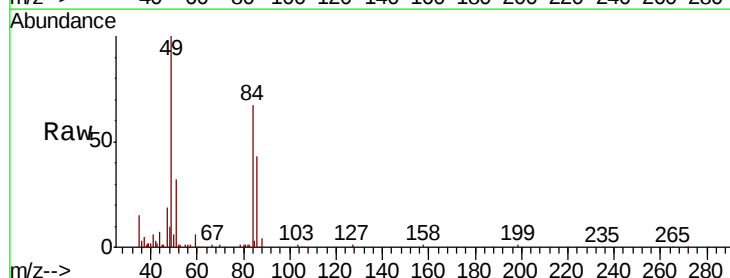
Ion Ratio Lower Upper

84 100

49 147.5 119.7 179.5

51 47.0 36.1 54.1

86 63.5 53.7 80.5

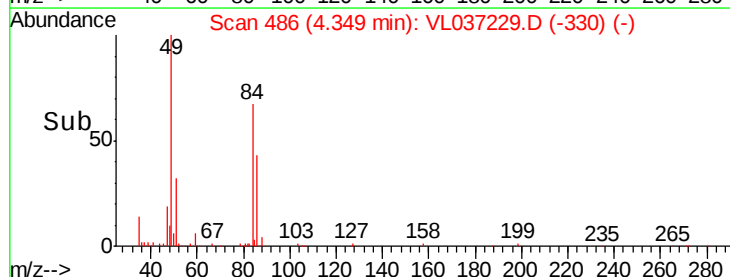
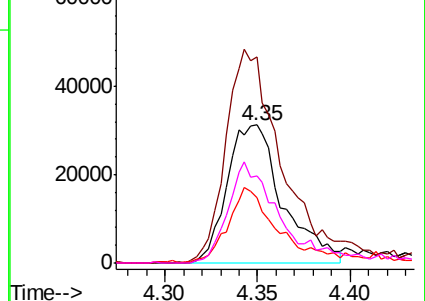


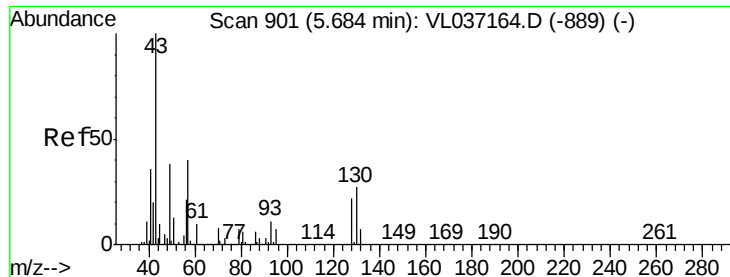
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

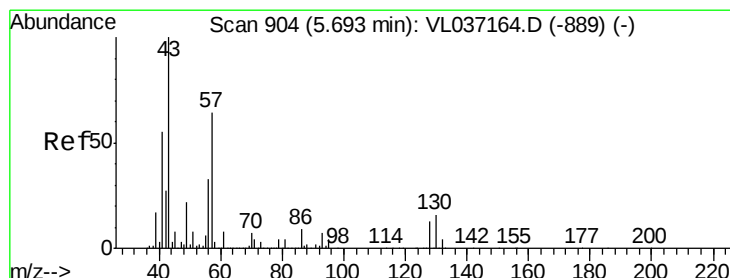
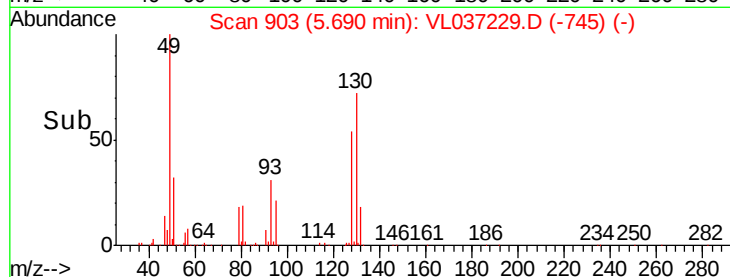
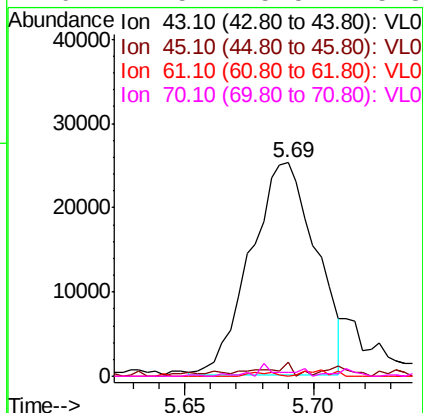
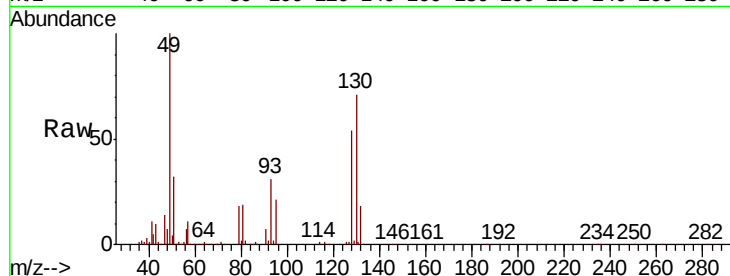




#25
Ethyl Acetate
Concen: 0.109 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL037229.D
Acq: 22 Jun 2021 23:15

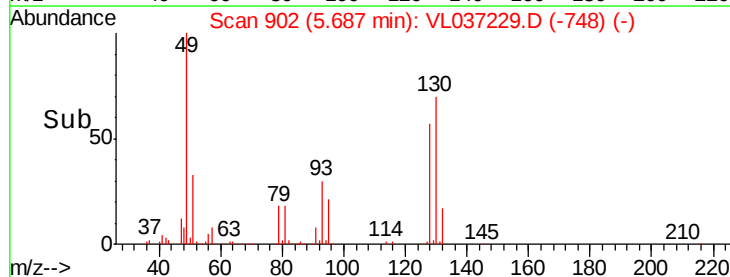
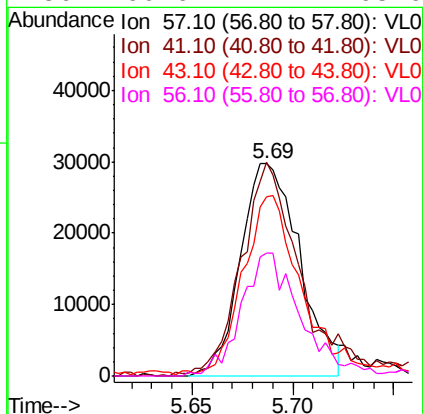
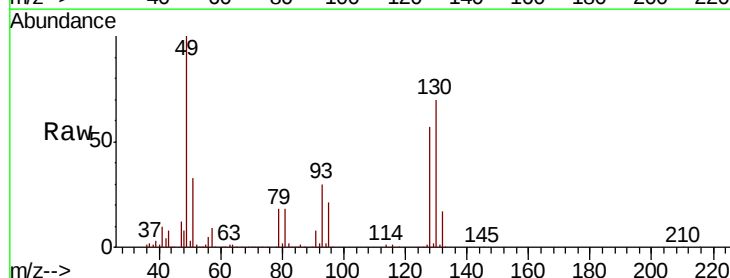
Instrument :
MSVOA_L
ClientSampleId :

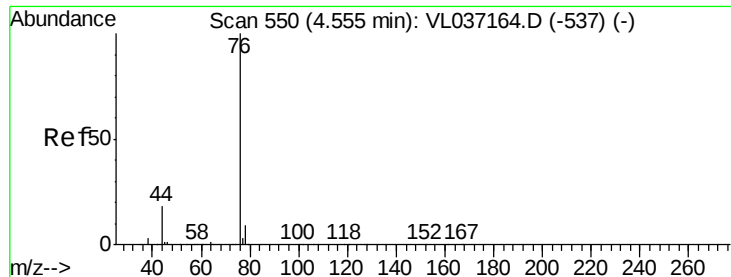
Tot Ion:	43	Resp:	44334
Ion	Ratio	Lower	Upper
43	100		
45	7.2	8.0	12.0#
61	0.0	8.1	12.1#
70	2.5	5.5	8.3#



#26
Hexane
Concen: 0.296 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL037229.D
Acq: 22 Jun 2021 23:15

Tgt Ion:	57	Resp:	61015
Ion	Ratio	Lower	Upper
57	100		
41	106.1	73.5	110.3
43	88.5	170.7	256.1#
56	60.6	42.4	63.6





#27

Carbon Disulfide

Concen: 0.423 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL037229.D

Acq: 22 Jun 2021 23:15

Instrument :

MSVOA_L

ClientSampled :

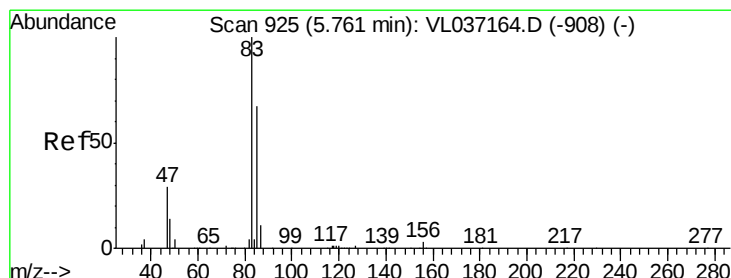
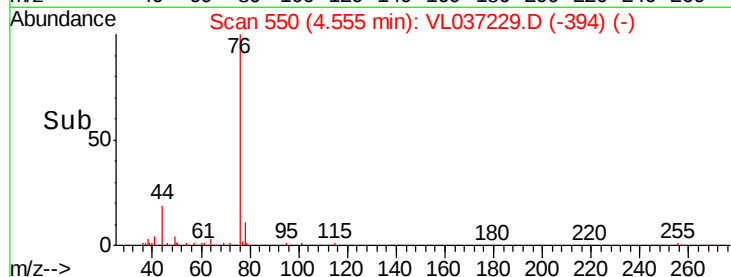
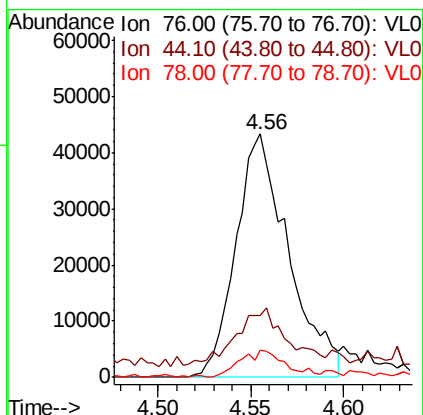
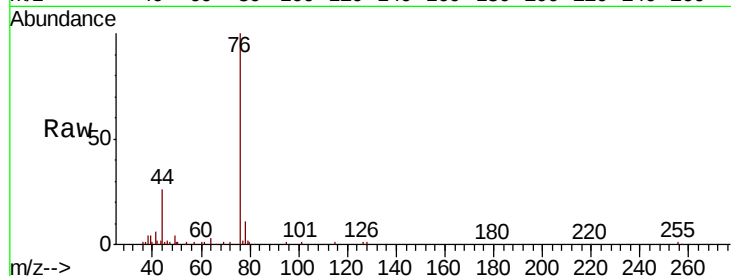
Tot Ion: 76 Resp: 85473

Ion Ratio Lower Upper

76 100

44 24.2 15.4 23.2#

78 11.1 8.0 12.0



#29

Chloroform

Concen: 0.090 ppbv

RT: 5.75 min Scan# 922

Delta R.T. -0.01 min

Lab File: VL037229.D

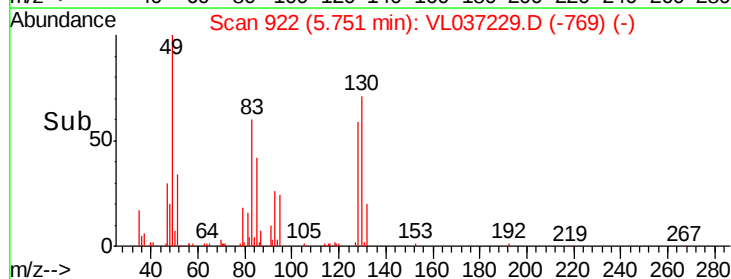
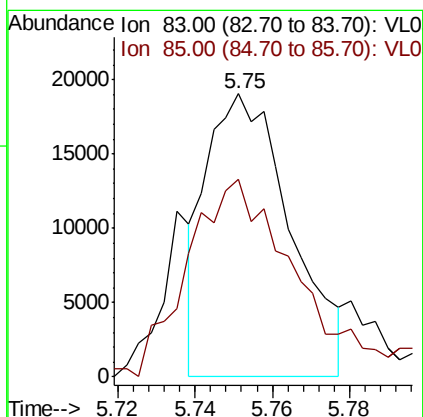
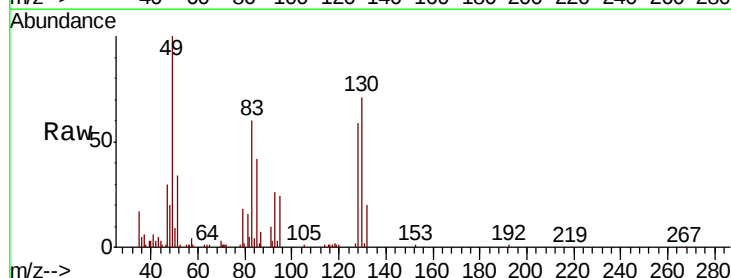
Acq: 22 Jun 2021 23:15

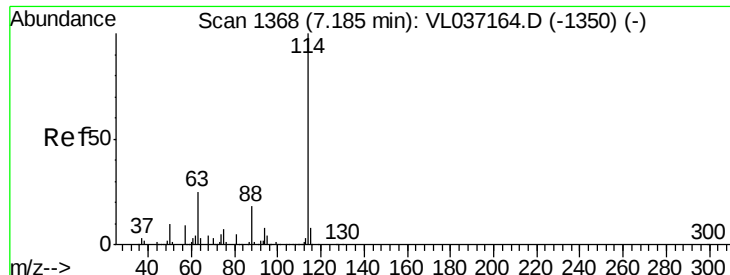
Tgt Ion: 83 Resp: 28768

Ion Ratio Lower Upper

83 100

85 72.6 53.6 80.4

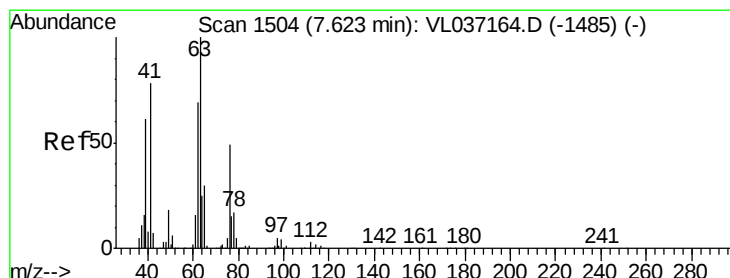
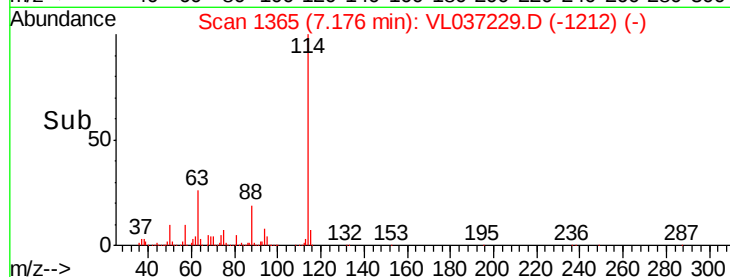
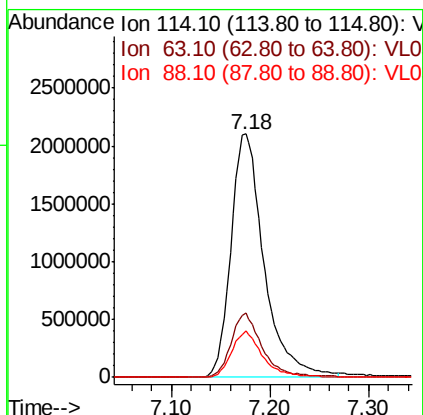
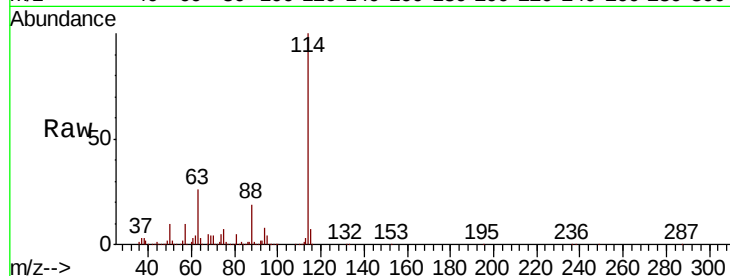




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL037229.D
 Acq: 22 Jun 2021 23:15

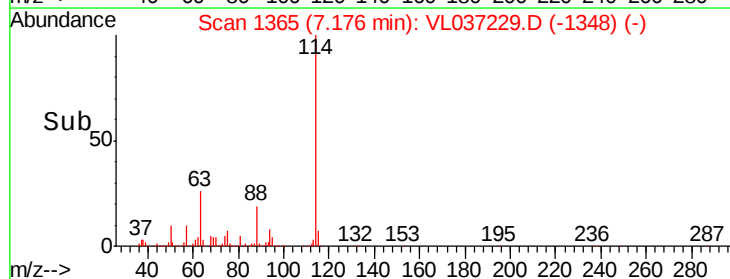
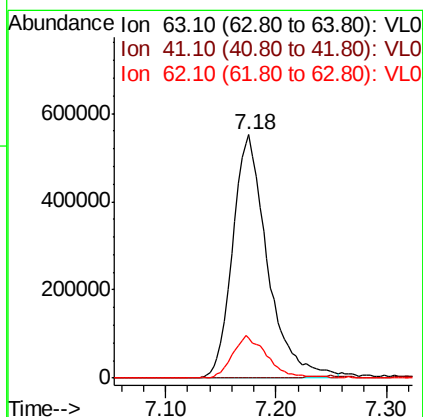
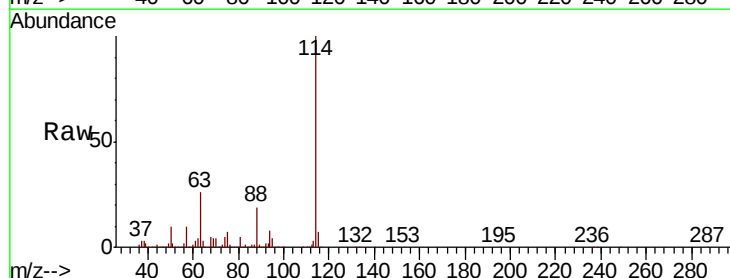
Instrument :
 MSVOA_L
 ClientSampleId :

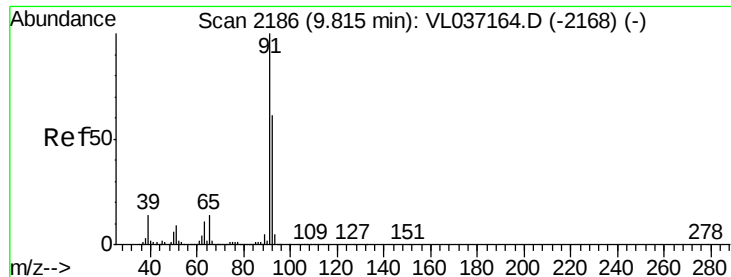
Tot Ion:114 Resp: 4910872
 Ion Ratio Lower Upper
 114 100
 63 25.2 19.6 29.4
 88 18.3 14.2 21.2



#39
 1,2-Dichloropropane
 Concen: 8.197 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.45 min
 Lab File: VL037229.D
 Acq: 22 Jun 2021 23:15

Tgt Ion: 63 Resp: 1209610
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.0 93.0#
 62 16.4 54.9 82.3#





#53

Toluene

Concen: 0.241 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL037229.D

Acq: 22 Jun 2021 23:15

Instrument :

MSVOA_L

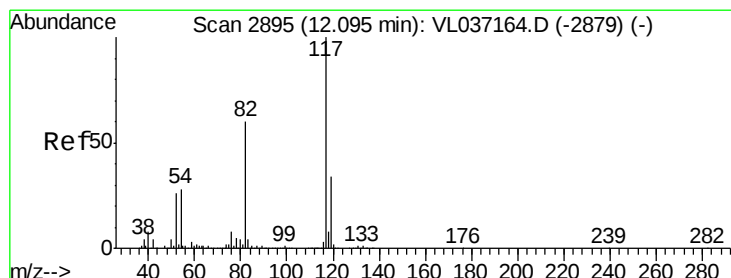
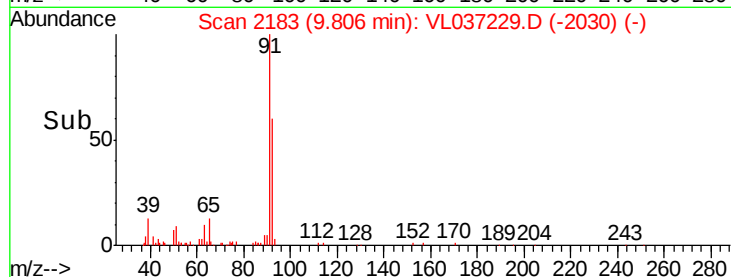
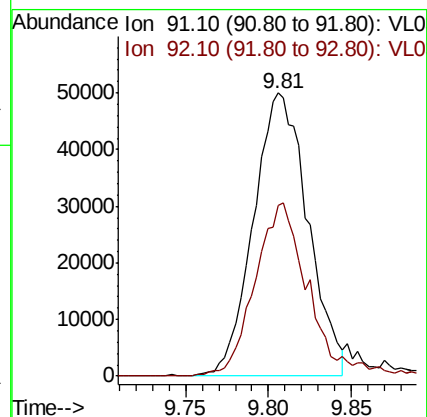
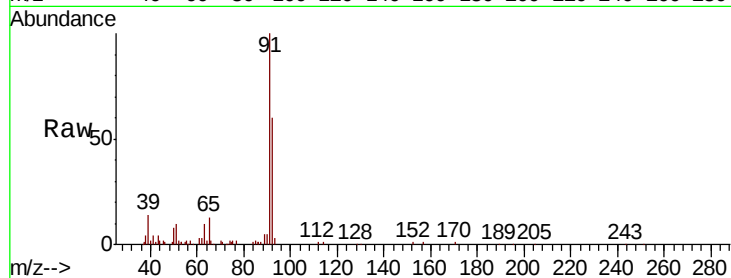
ClientSampled :

Tot Ion: 91 Resp: 114105

Ion Ratio Lower Upper

91 100

92 60.7 48.3 72.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL037229.D

Acq: 22 Jun 2021 23:15

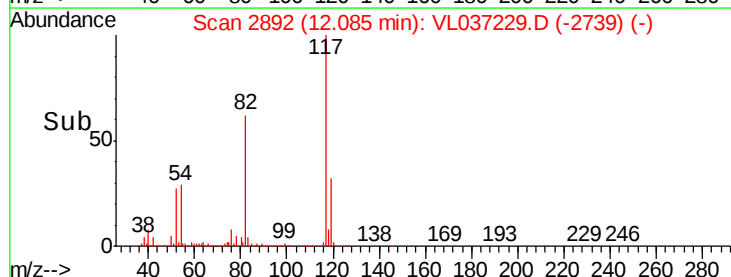
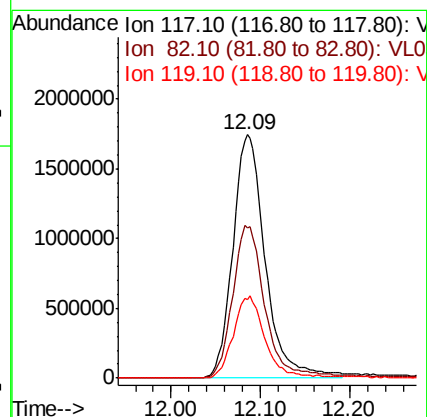
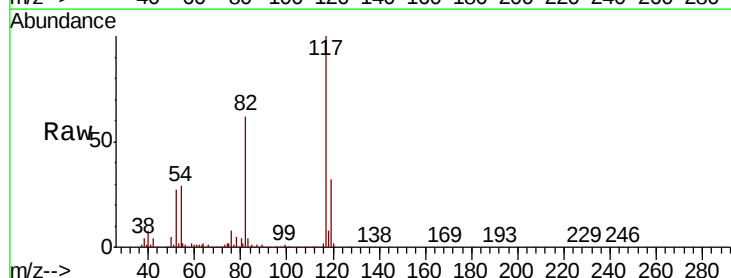
Tgt Ion: 117 Resp: 4392204

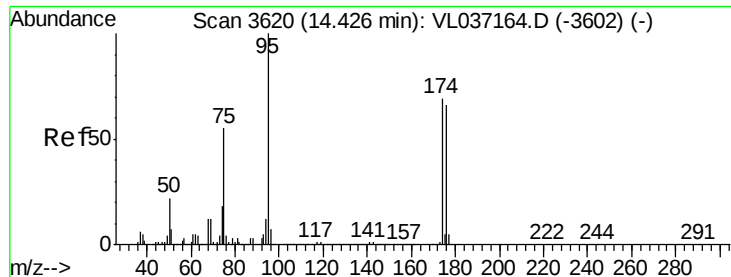
Ion Ratio Lower Upper

117 100

82 64.5 51.7 77.5

119 34.2 47.6 71.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.027 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL037229.D

Acq: 22 Jun 2021 23:15

Instrument :

MSVOA_L

ClientSampleId :

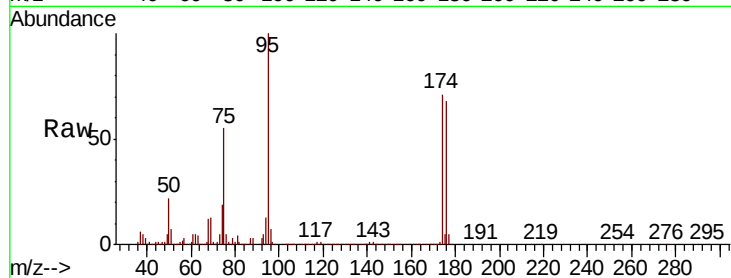
Tot Ion: 95 Resp: 3337077

Ion Ratio Lower Upper

95 100

174 71.9 57.0 85.4

175 5.2 4.4 6.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

