

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040521\
 Data File : VL036683.D
 Acq On : 5 Apr 2021 21:55
 Operator : SY/AP
 Sample : M1945-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 06 02:01:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1315745	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3216084	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2944065	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2361532	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

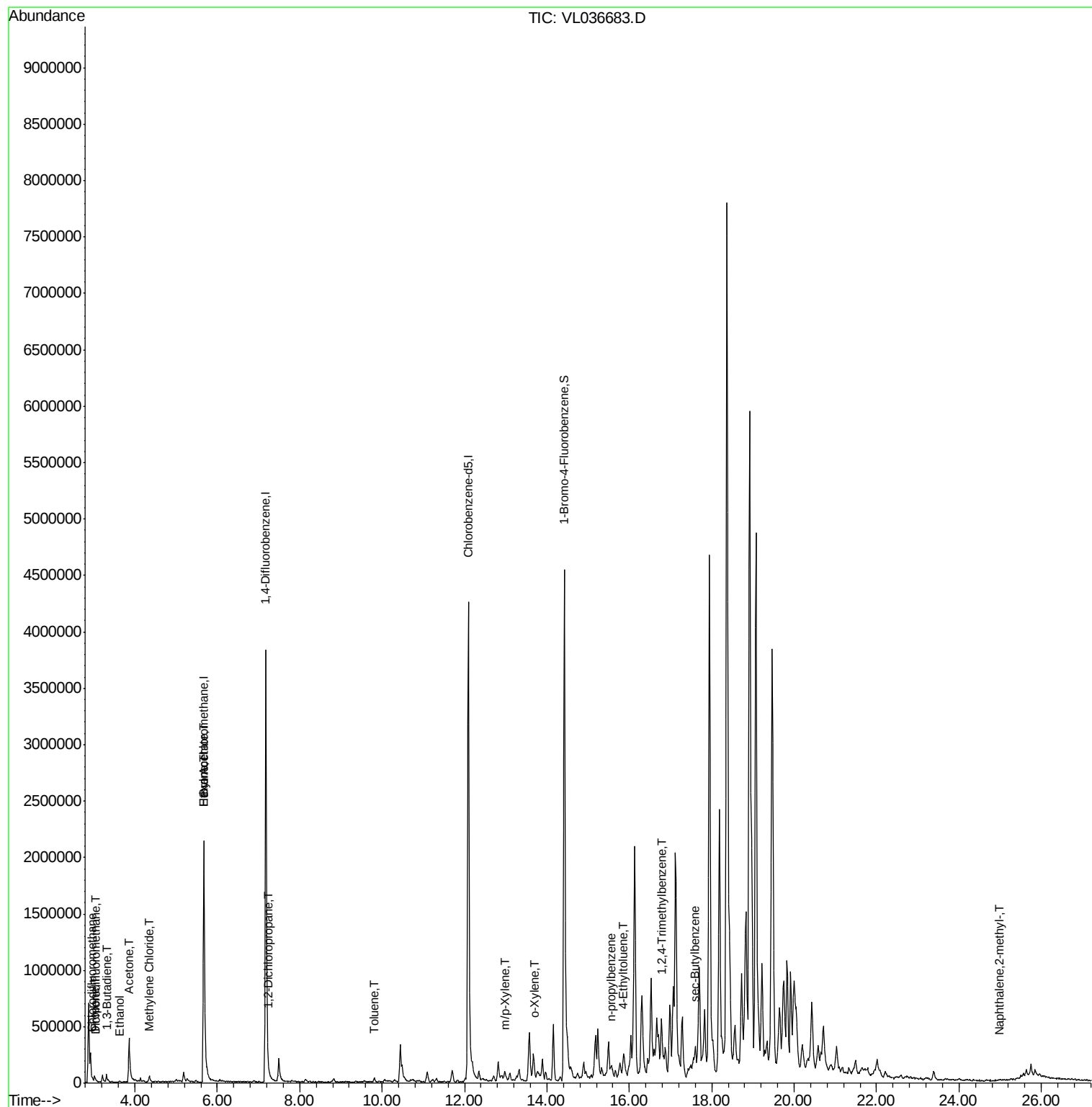
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	6495	0.030	ppbv #	75
3) Chlorodifluoromethane	2.96	51	24308	0.099	ppbv #	68
9) Propene	3.02	41	12383	0.158	ppbv	93
13) Ethanol	3.62	45	4749	0.509	ppbv #	34
15) Acetone	3.85	43	537573	4.151	ppbv	91
16) 1,3-Butadiene	3.32	39	5278	0.059	ppbv #	13
20) Methylene Chloride	4.35	84	11206	0.185	ppbv #	82
25) Ethyl Acetate	5.68	43	30468	0.099	ppbv #	78
26) Hexane	5.68	57	20602	0.144	ppbv #	46
39) 1,2-Dichloropropane	7.24	63	10843	0.090	ppbv #	23
53) Toluene	9.81	91	19753	0.063	ppbv #	47
59) m/p-Xylene	13.01	91	12967	0.035	ppbv #	32
60) o-Xylene	13.70	91	19640	0.054	ppbv #	30
64) n-propylbenzene	15.57	120	3961	0.033	ppbv #	1
67) sec-Butylbenzene	17.61	105	40358	0.068	ppbv	94
72) 4-Ethyltoluene	15.85	105	30407	0.077	ppbv #	81
74) 1,2,4-Trimethylbenzene	16.77	105	149030	0.377	ppbv #	68
80) Naphthalene,2-methyl-	24.99	142	5534	0.122	ppbv	98

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

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

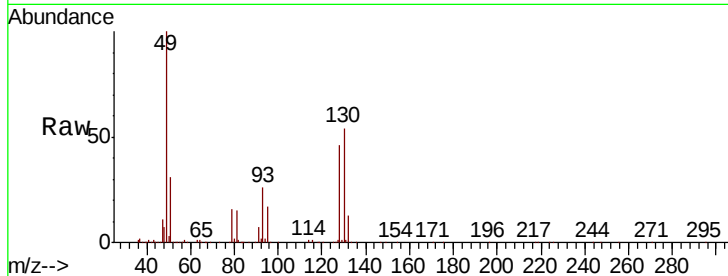
Lab File: VL036683.D

Acq: 5 Apr 2021 21:55

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1315745

Ion	Ratio	Lower	Upper
49	100		
128	46.8	23.5	70.6
130	59.9	29.1	87.4

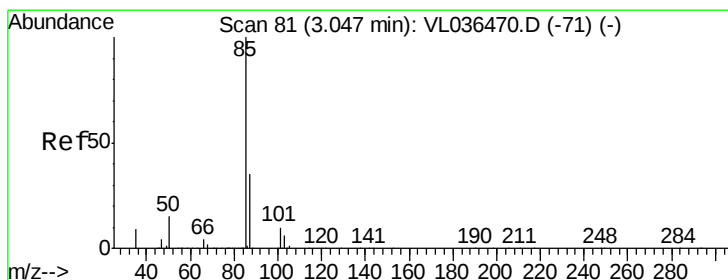
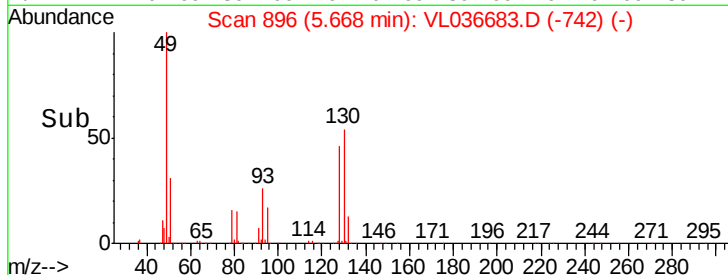
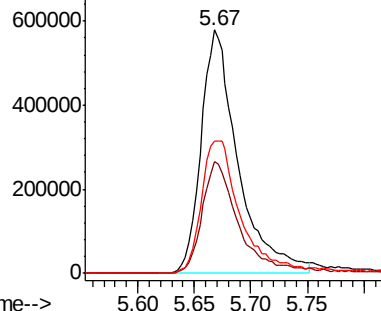


Abundance

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: 0.030 ppbv

RT: 3.05 min Scan# 81

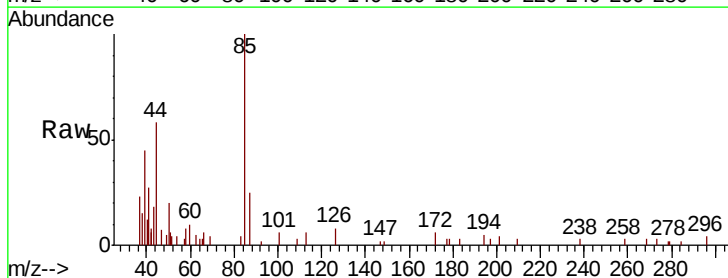
Delta R.T. -0.00 min

Lab File: VL036683.D

Acq: 5 Apr 2021 21:55

Tgt Ion: 85 Resp: 6495

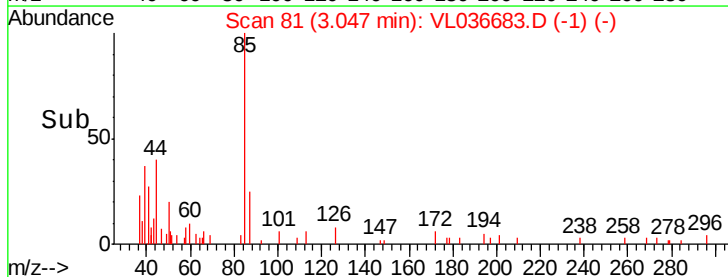
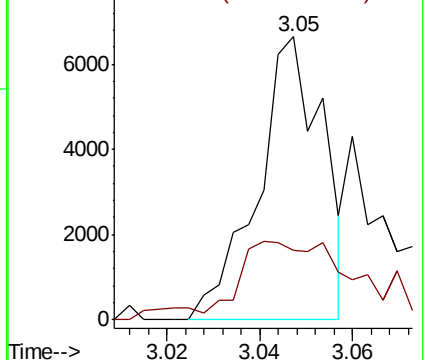
Ion	Ratio	Lower	Upper
85	100		
87	20.5	27.8	41.8



Abundance

Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.099 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL036683.D

Acq: 5 Apr 2021 21:55

Instrument :

MSVOA_L

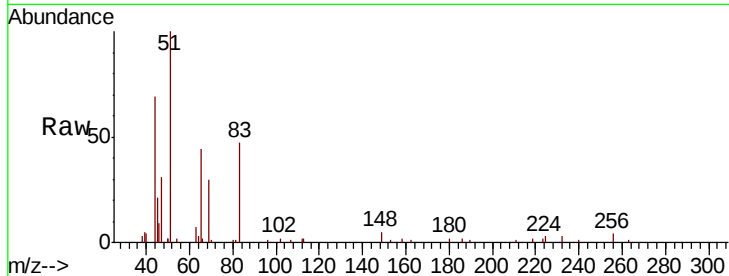
ClientSampleId :

Tot Ion: 51 Resp: 24308

Ion Ratio Lower Upper

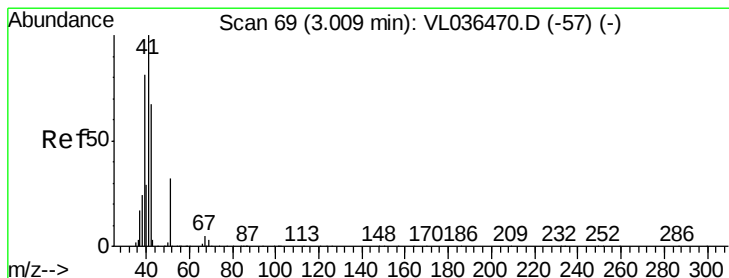
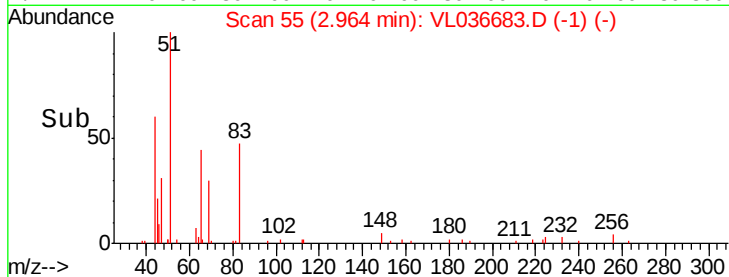
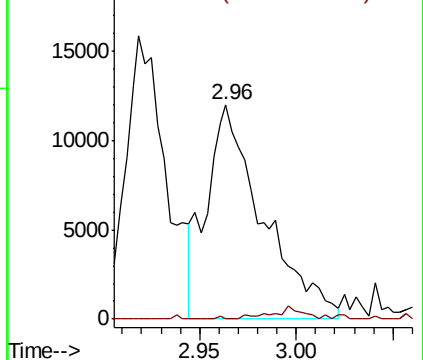
51 100

67 4.1 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.158 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036683.D

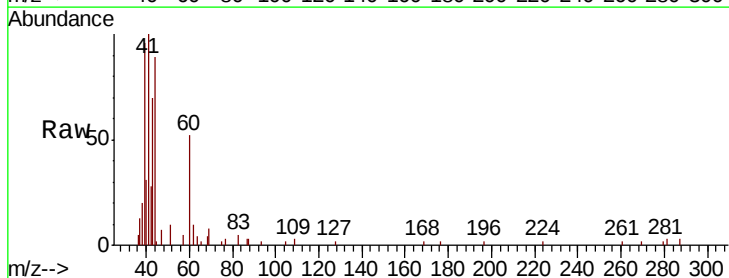
Acq: 5 Apr 2021 21:55

Tgt Ion: 41 Resp: 12383

Ion Ratio Lower Upper

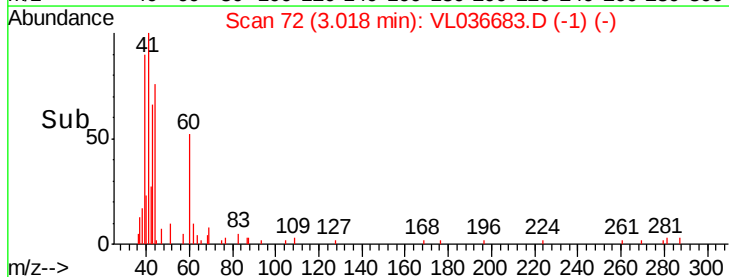
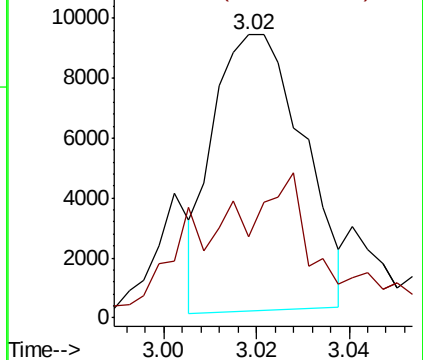
41 100

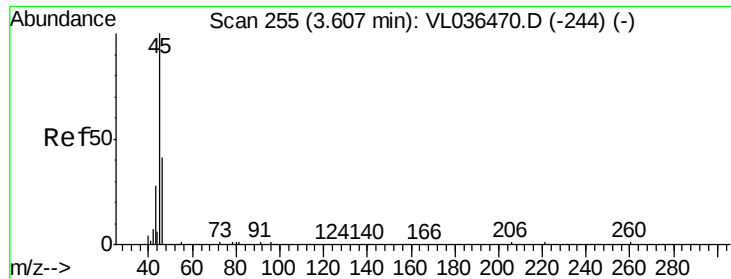
42 77.2 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

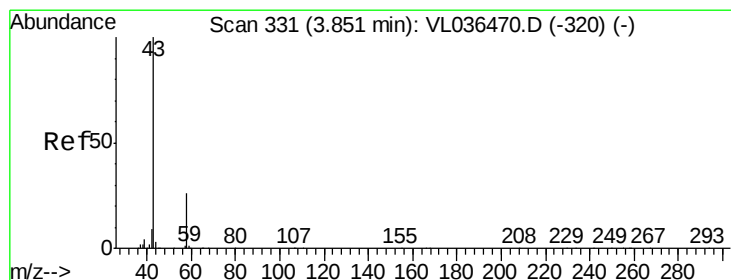
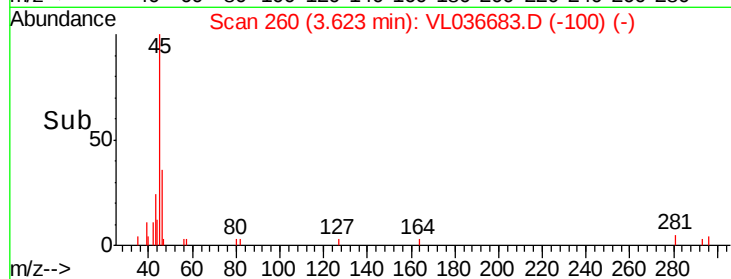
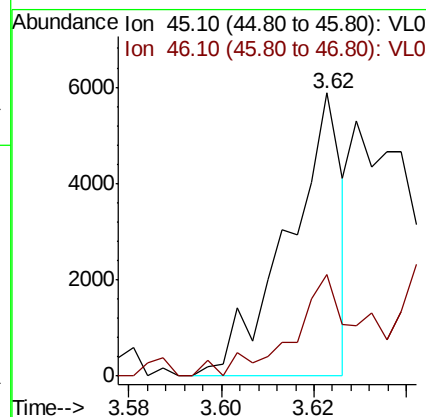
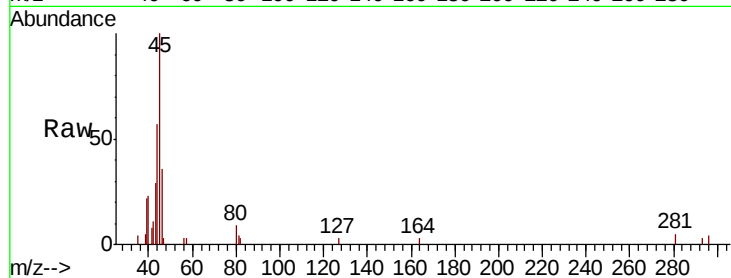




#13
Ethanol
Concen: 0.509 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.02 min
Lab File: VL036683.D
Acq: 5 Apr 2021 21:55

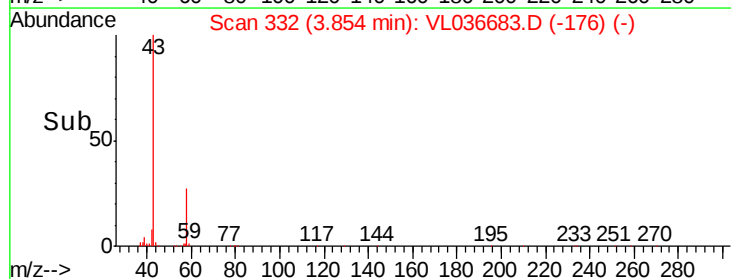
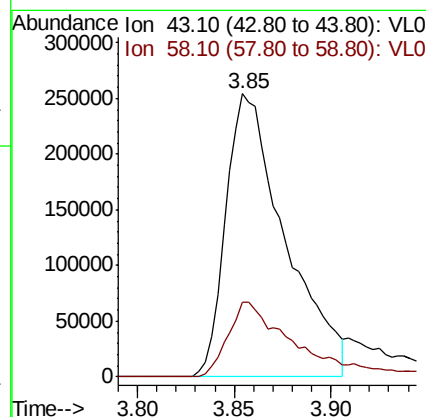
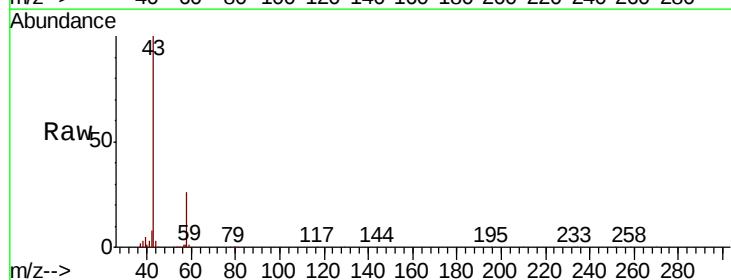
Instrument :
MSVOA_L
ClientSampleId :

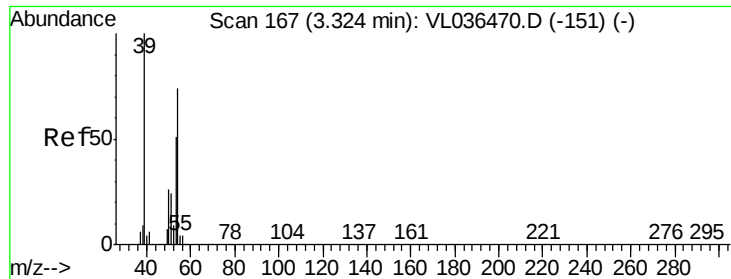
Tot Ion: 45 Resp: 4749
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.2#



#15
Acetone
Concen: 4.151 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL036683.D
Acq: 5 Apr 2021 21:55

Tgt Ion: 43 Resp: 537573
Ion Ratio Lower Upper
43 100
58 30.9 21.2 31.8

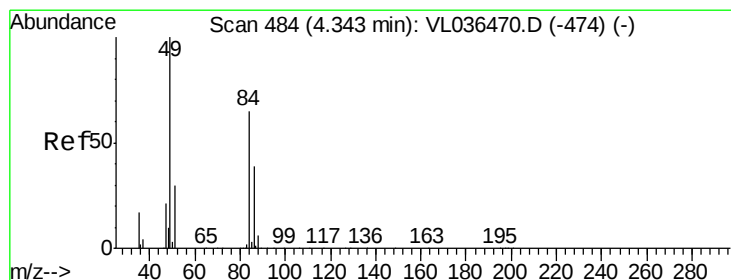
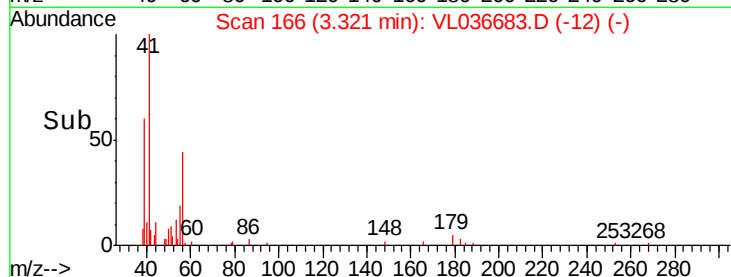
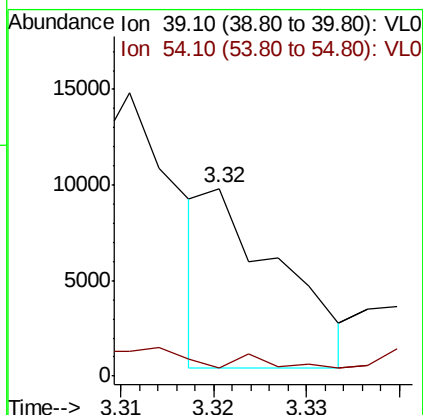
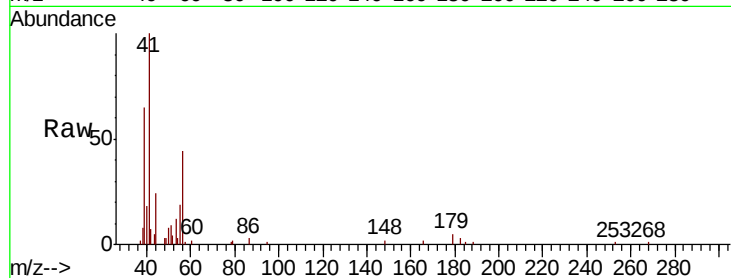




#16
1,3-Butadiene
Concen: 0.059 ppbv
RT: 3.32 min Scan# 166
Delta R.T. -0.00 min
Lab File: VL036683.D
Acq: 5 Apr 2021 21:55

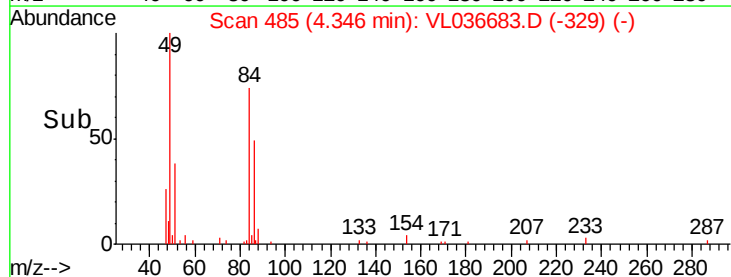
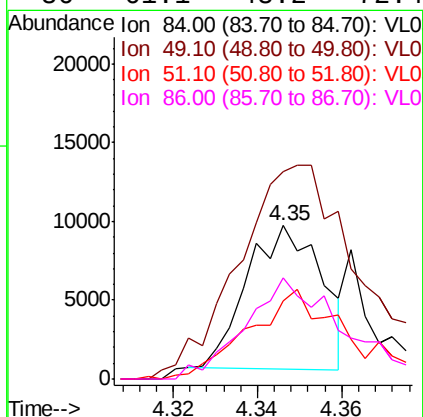
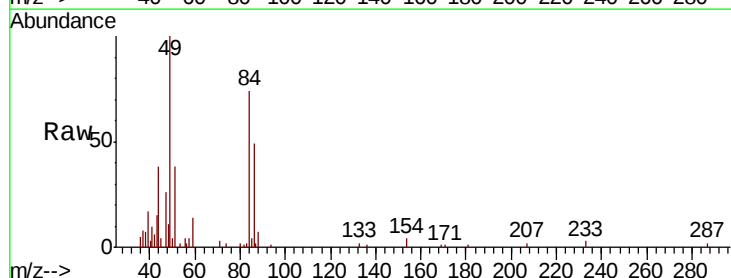
Instrument :
MSVOA_L
ClientSampleId :

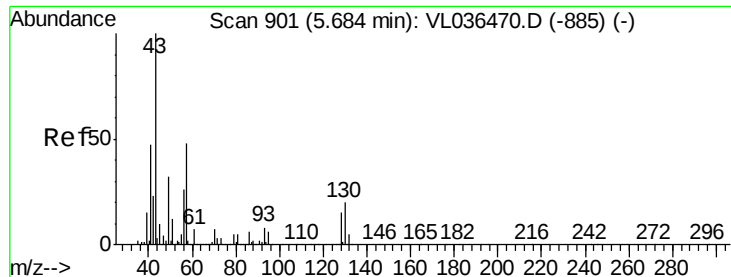
Tot Ion: 39 Resp: 5278
Ion Ratio Lower Upper
39 100
54 0.0 58.8 88.2#



#20
Methylene Chloride
Concen: 0.185 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL036683.D
Acq: 5 Apr 2021 21:55

Tgt Ion: 84 Resp: 11206
Ion Ratio Lower Upper
84 100
49 117.5 122.9 184.3#
51 51.0 36.9 55.3
86 61.1 48.2 72.4

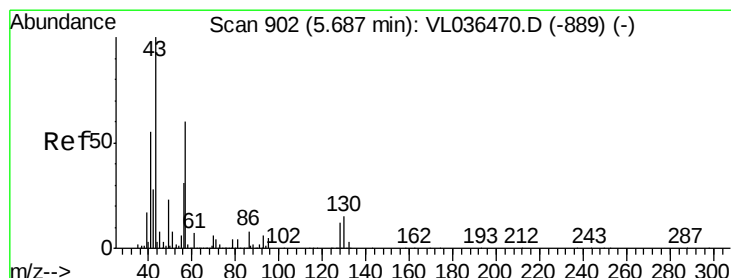
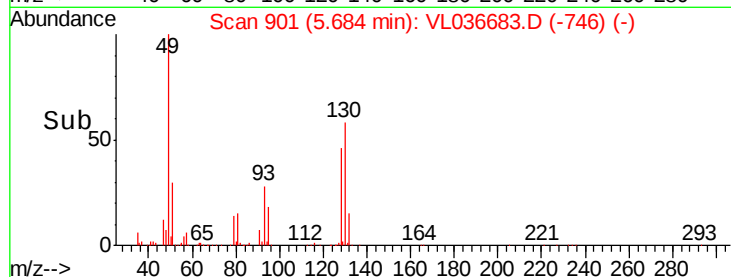
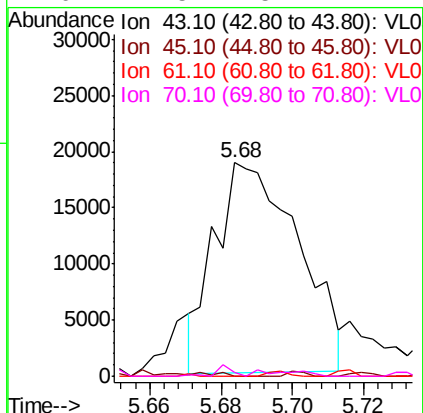
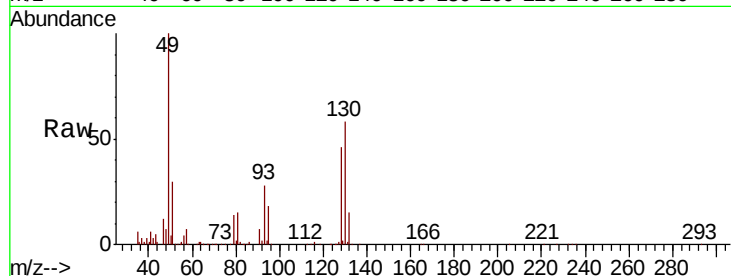




#25
Ethyl Acetate
Concen: 0.099 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036683.D
Acq: 5 Apr 2021 21:55

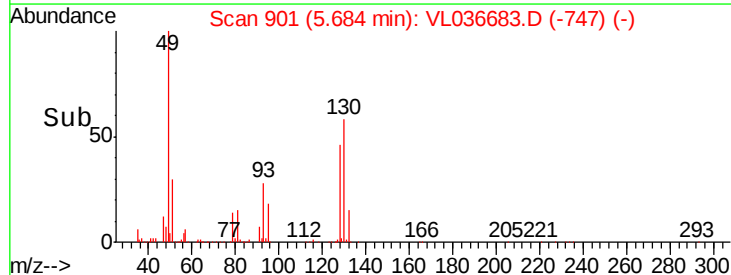
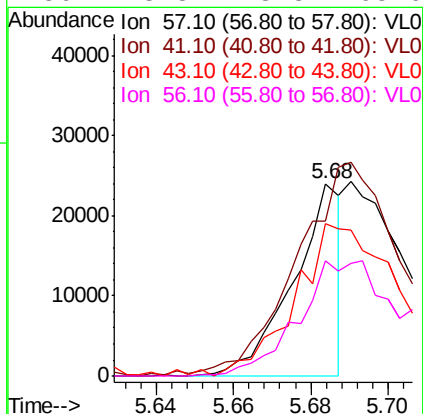
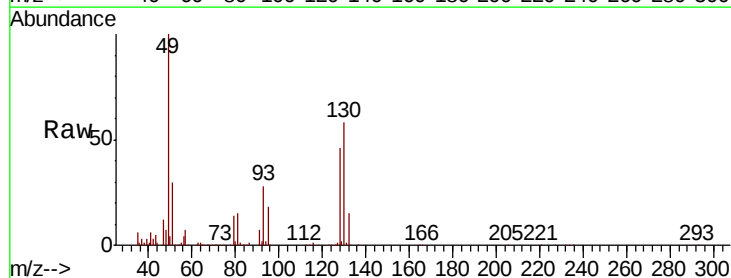
Instrument :
MSVOA_L
ClientSampleID :

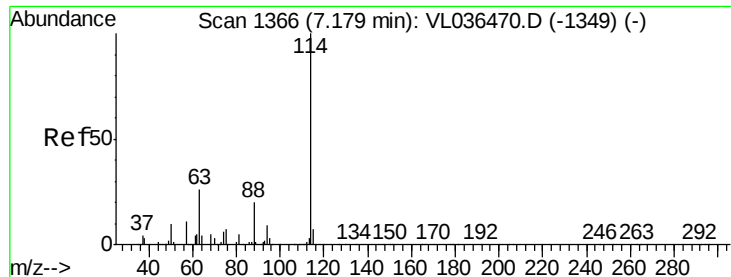
Tot Ion:	43	Resp:	30468
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	0.6	7.4	11.2#
70	2.5	5.1	7.7#



#26
Hexane
Concen: 0.144 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036683.D
Acq: 5 Apr 2021 21:55

Tgt Ion:	57	Resp:	20602
Ion	Ratio	Lower	Upper
57	100		
41	0.0	77.2	115.8#
43	191.1	173.8	260.6
56	143.8	43.8	65.6#

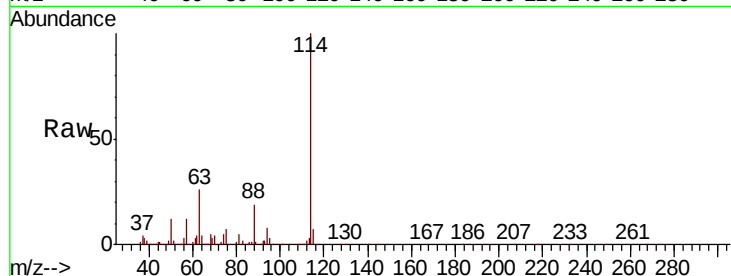




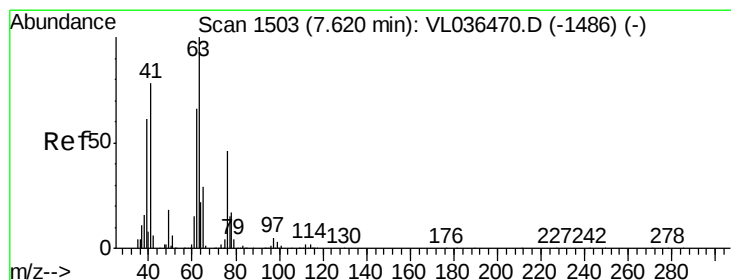
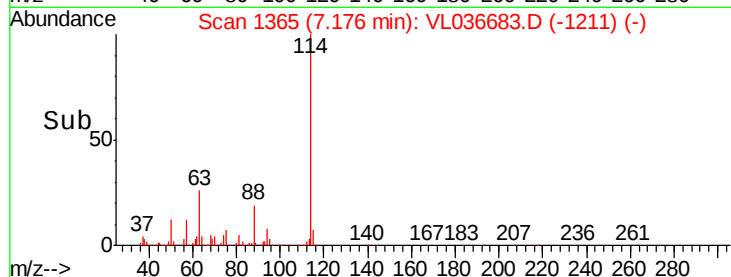
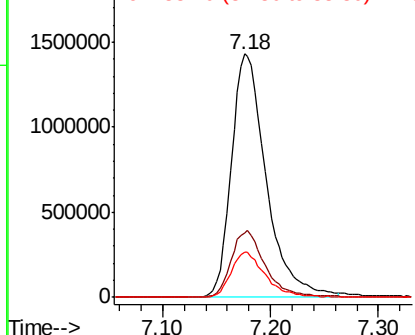
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL036683.D
 Acq: 5 Apr 2021 21:55

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3216084
 Ion Ratio Lower Upper
 114 100
 63 27.1 22.4 33.6
 88 18.6 15.4 23.0

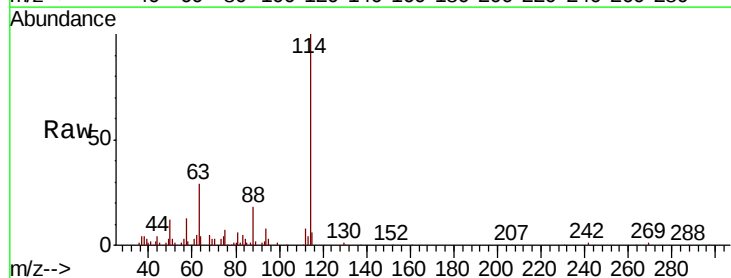


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

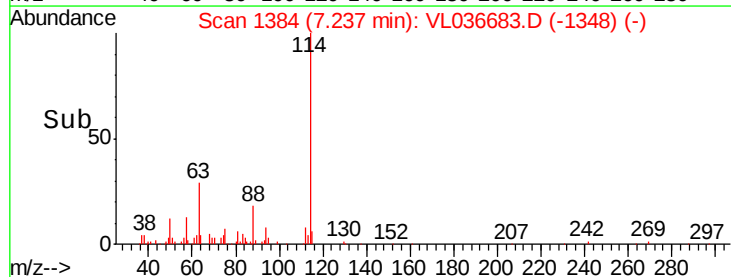
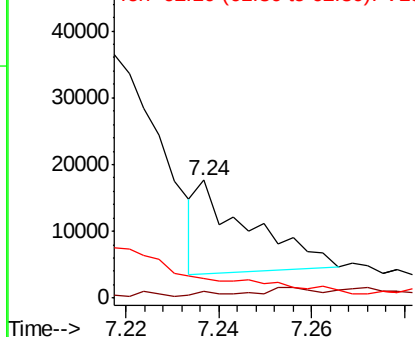


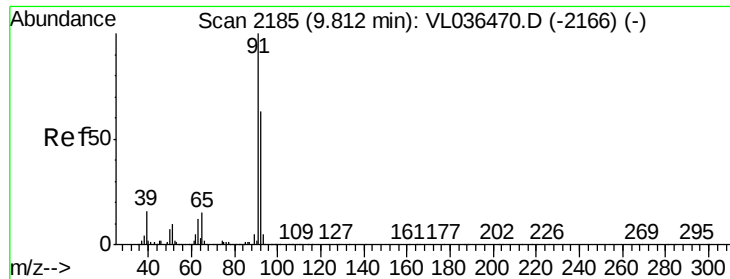
#39
 1,2-Dichloropropane
 Concen: 0.090 ppbv
 RT: 7.24 min Scan# 1384
 Delta R.T. -0.38 min
 Lab File: VL036683.D
 Acq: 5 Apr 2021 21:55

Tgt Ion: 63 Resp: 10843
 Ion Ratio Lower Upper
 63 100
 41 4.0 62.4 93.6#
 62 12.6 52.8 79.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.063 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL036683.D

Acq: 5 Apr 2021 21:55

Instrument :

MSVOA_L

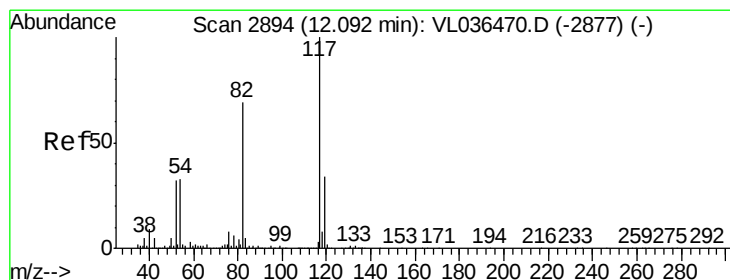
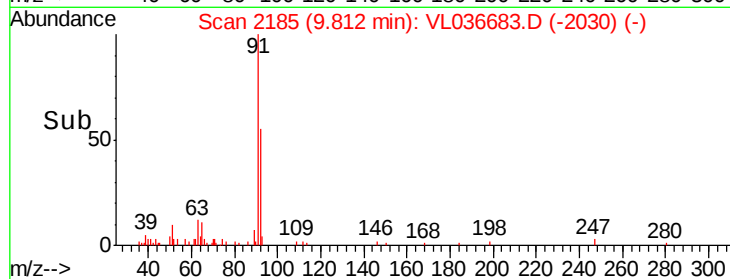
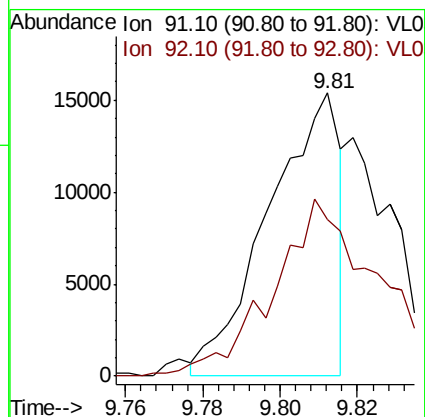
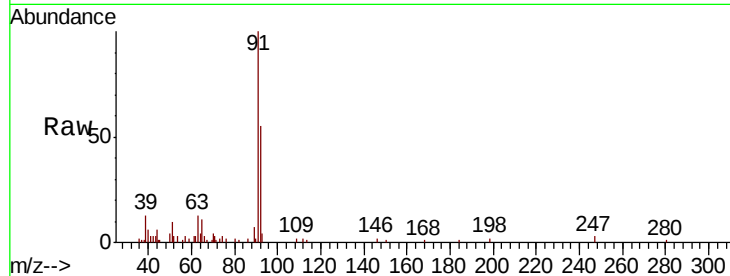
ClientSampleId :

Tot Ion: 91 Resp: 19753

Ion Ratio Lower Upper

91 100

92 101.3 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036683.D

Acq: 5 Apr 2021 21:55

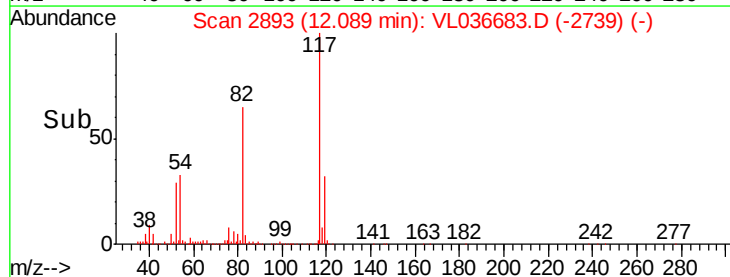
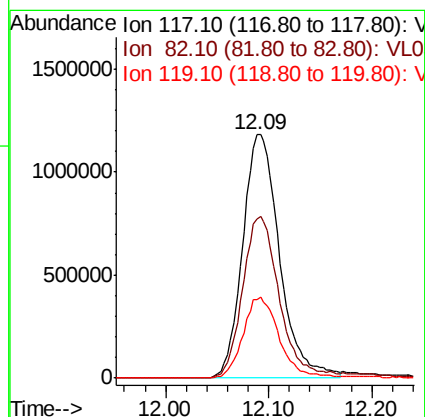
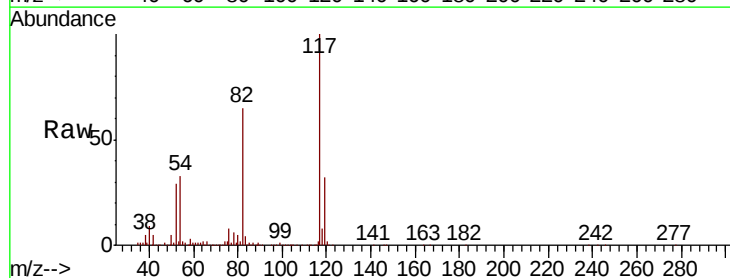
Tgt Ion: 117 Resp: 2944065

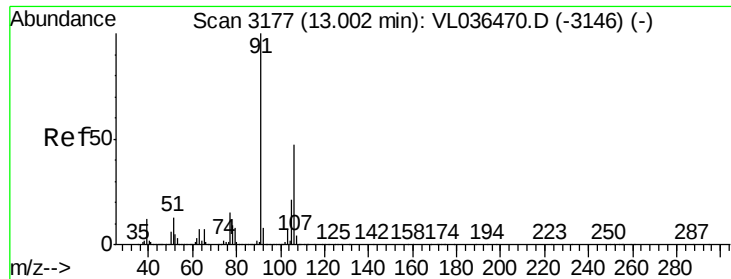
Ion Ratio Lower Upper

117 100

82 68.9 57.4 86.0

119 33.3 47.4 71.0#

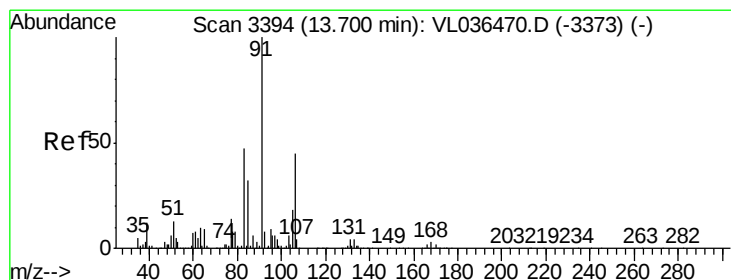
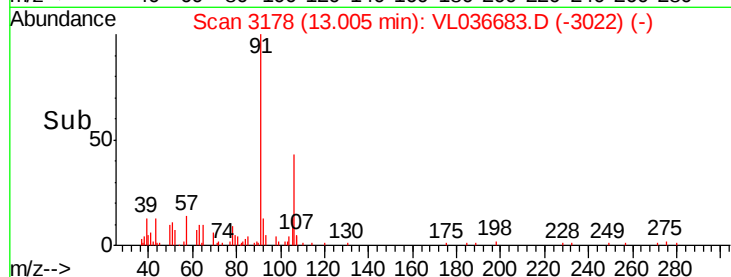
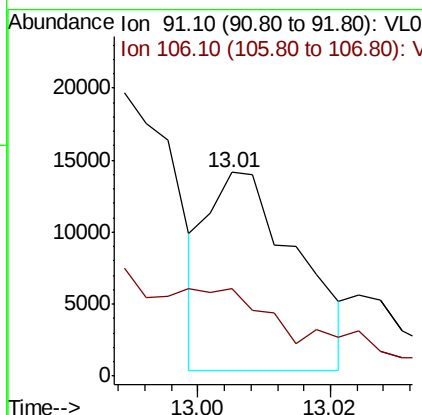
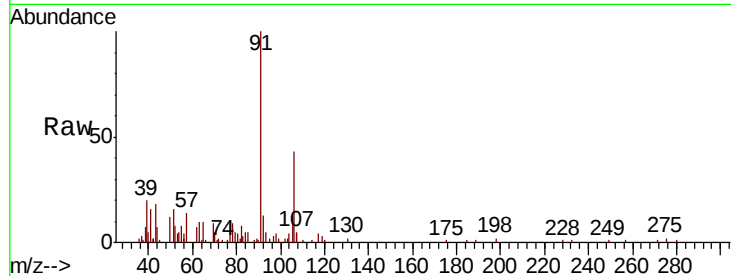




#59
m/p-Xylene
Concen: 0.035 ppbv
RT: 13.01 min Scan# 3178
Delta R.T. 0.00 min
Lab File: VL036683.D
Acq: 5 Apr 2021 21:55

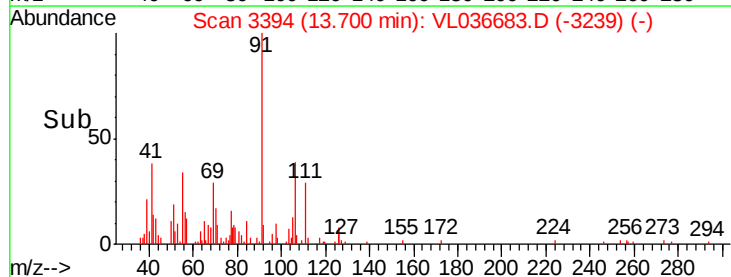
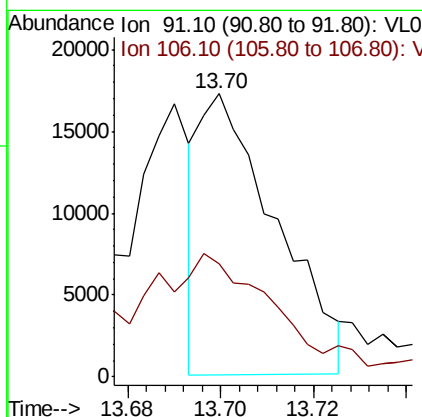
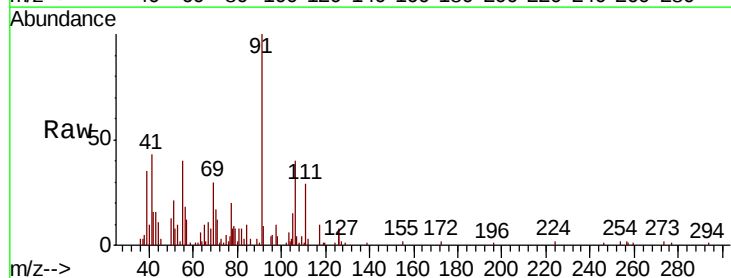
Instrument :
MSVOA_L
ClientSampled :

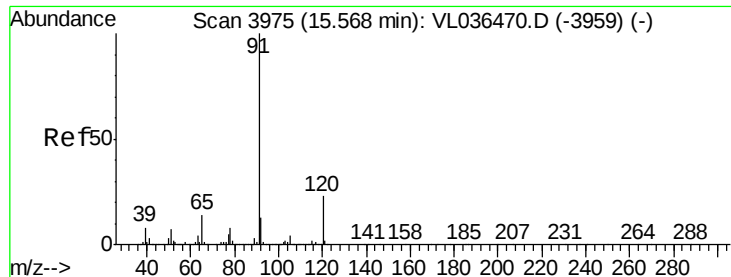
Tot Ion: 91 Resp: 12967
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#



#60
o-Xylene
Concen: 0.054 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL036683.D
Acq: 5 Apr 2021 21:55

Tgt Ion: 91 Resp: 19640
Ion Ratio Lower Upper
91 100
106 90.0 22.3 66.9#





#64

n-propylbenzene

Concen: 0.033 ppbv

RT: 15.57 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL036683.D

Acq: 5 Apr 2021 21:55

Instrument :

MSVOA_L

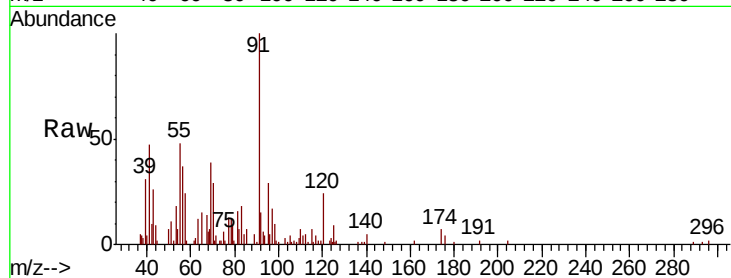
ClientSampleId :

Tot Ion:120 Resp: 3961

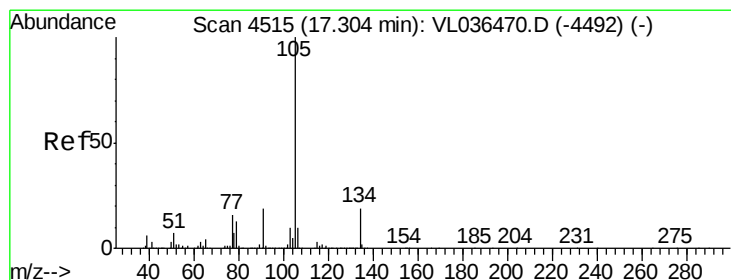
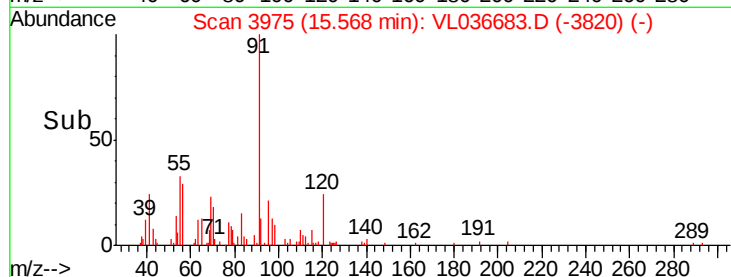
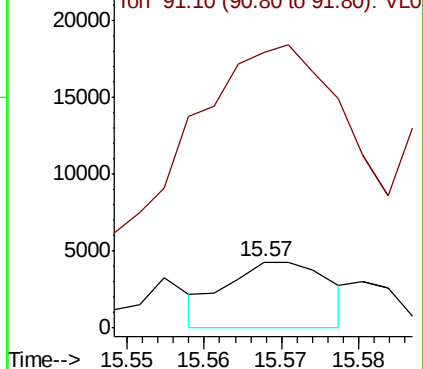
Ion Ratio Lower Upper

120 100

91 1100.8 377.4 566.2#



Abundance Ion 120.20 (119.90 to 120.90): V



#67

sec-Butylbenzene

Concen: 0.068 ppbv

RT: 17.61 min Scan# 4609

Delta R.T. 0.30 min

Lab File: VL036683.D

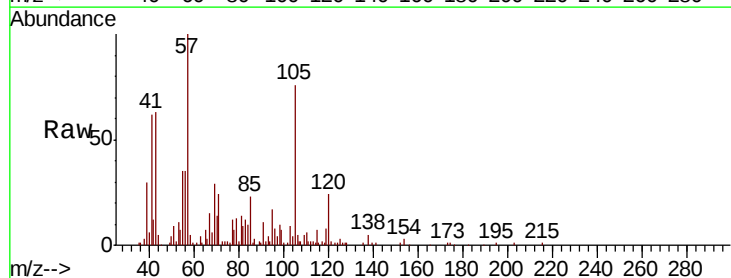
Acq: 5 Apr 2021 21:55

Tgt Ion:105 Resp: 40358

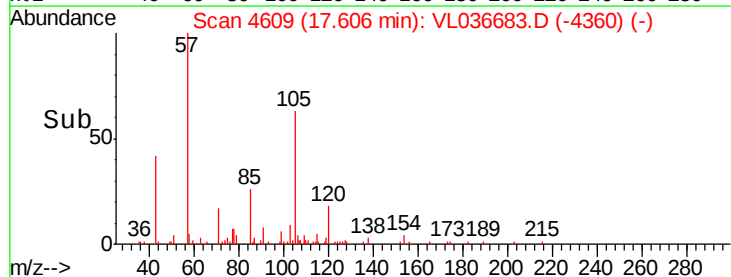
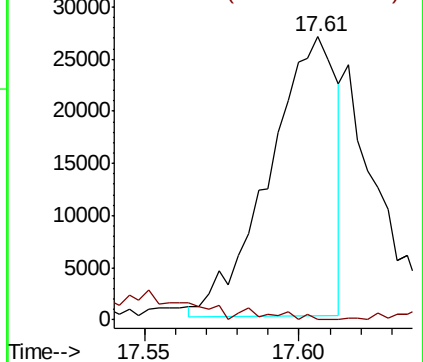
Ion Ratio Lower Upper

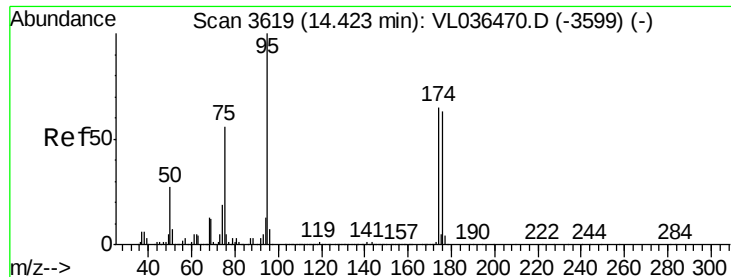
105 100

134 15.9 14.7 22.1



Abundance Ion 105.10 (104.80 to 105.80): V

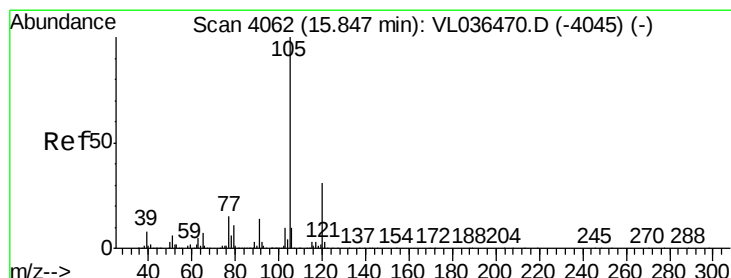
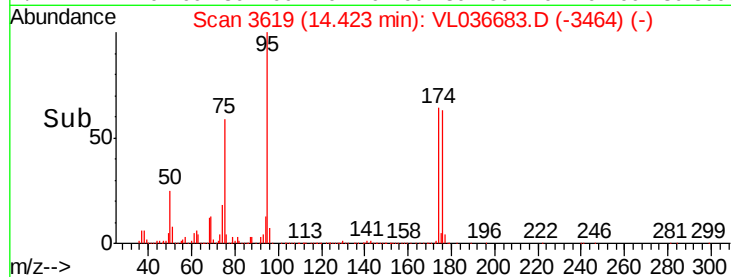
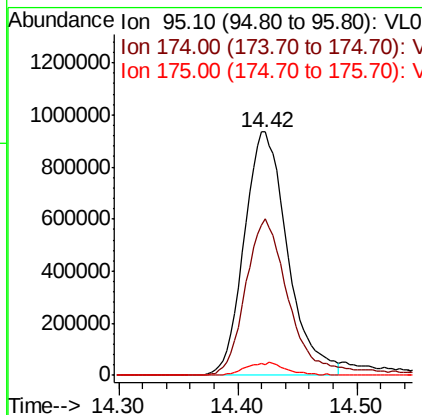
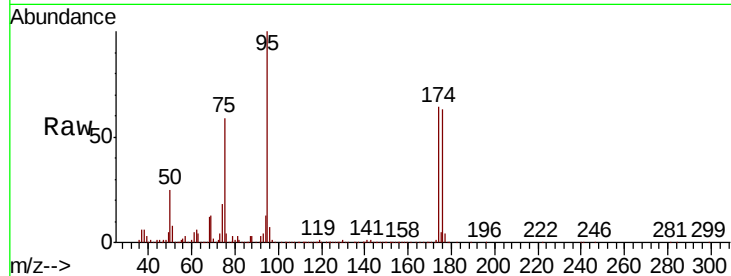




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.064 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. -0.00 min
 Lab File: VL036683.D
 Acq: 5 Apr 2021 21:55

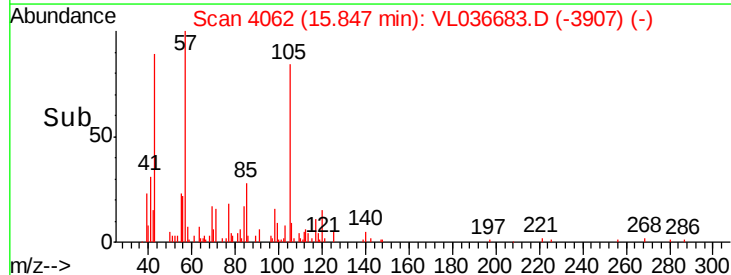
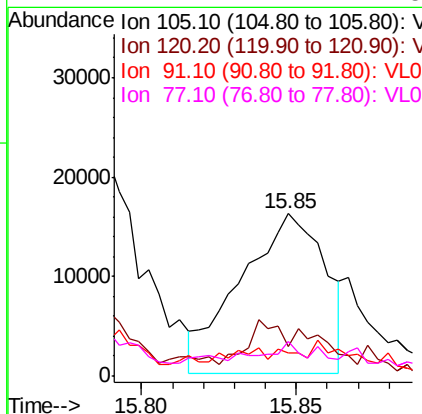
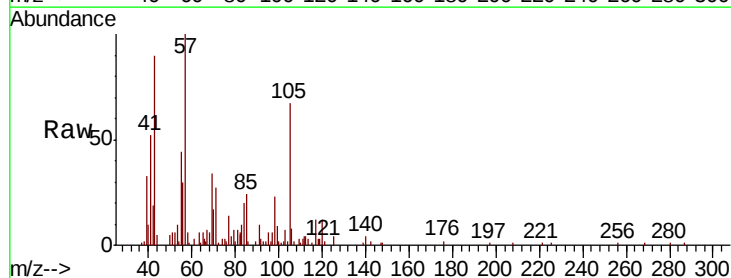
Instrument :
 MSVOA_L
 ClientSampleId :

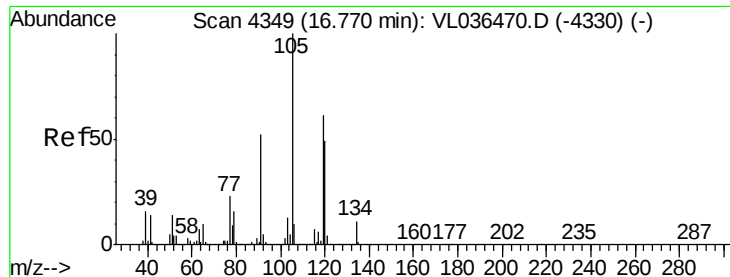
Tot Ion: 95 Resp: 2361532
 Ion Ratio Lower Upper
 95 100
 174 66.7 51.0 76.6
 175 5.1 3.9 5.9



#72
 4-Ethyltoluene
 Concen: 0.077 ppbv
 RT: 15.85 min Scan# 4062
 Delta R.T. -0.00 min
 Lab File: VL036683.D
 Acq: 5 Apr 2021 21:55

Tgt Ion: 105 Resp: 30407
 Ion Ratio Lower Upper
 105 100
 120 36.6 24.0 36.0#
 91 0.0 11.0 16.4#
 77 22.2 11.7 17.5#

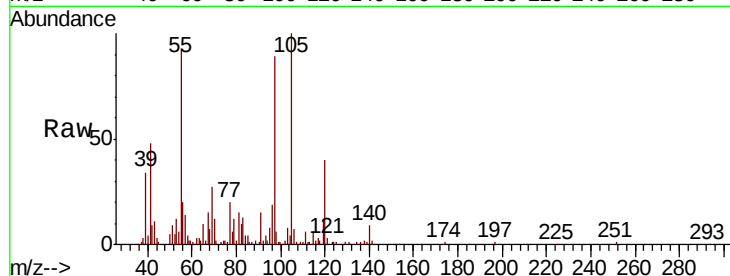




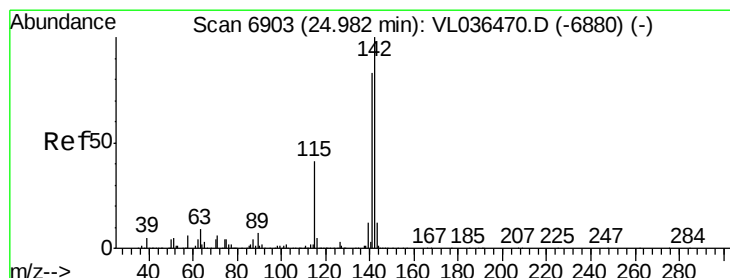
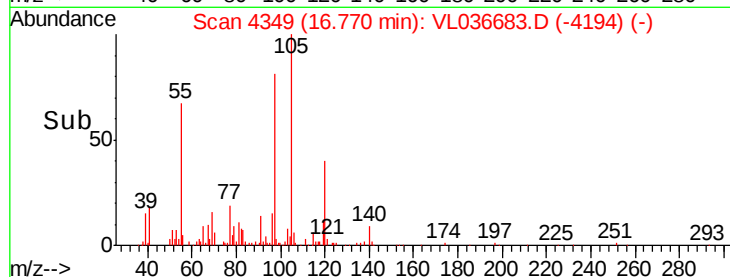
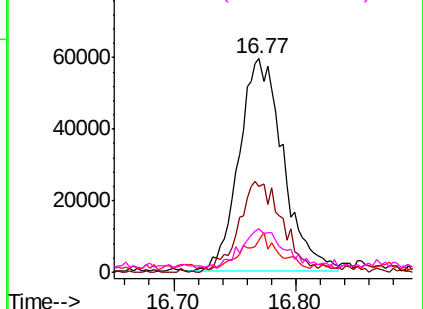
#74
 1,2,4-Trimethylbenzene
 Concen: 0.377 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.00 min
 Lab File: VL036683.D
 Acq: 5 Apr 2021 21:55

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	149030
Ion	Ratio	Lower	Upper
105	100		
120	40.1	39.2	58.8
91	12.9	42.6	64.0#
77	17.2	18.6	28.0#

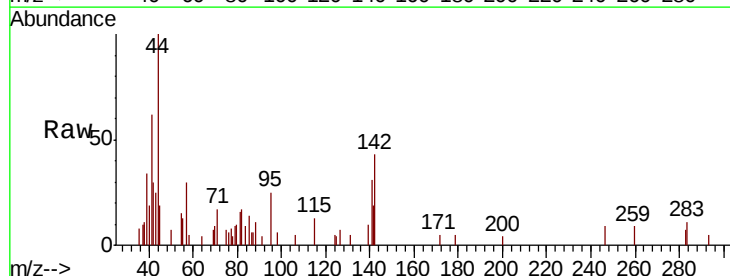


Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0



#80
 Naphthalene, 2-methyl-
 Concen: 0.122 ppbv
 RT: 24.99 min Scan# 6907
 Delta R.T. 0.01 min
 Lab File: VL036683.D
 Acq: 5 Apr 2021 21:55

Tgt Ion:	142	Resp:	5534
Ion	Ratio	Lower	Upper
142	100		
141	83.4	67.8	101.8
115	44.6	34.0	51.0



Abundance Ion 142.00 (141.70 to 142.70): V
 Ion 141.00 (140.70 to 141.70): V
 Ion 115.00 (114.70 to 115.70): V

