

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036331.D
 Acq On : 10 Feb 2021 23:53
 Operator : SY/AP
 Sample : M1343-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 11 06:12:36 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1700915	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3706353	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3325789	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2663825	9.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

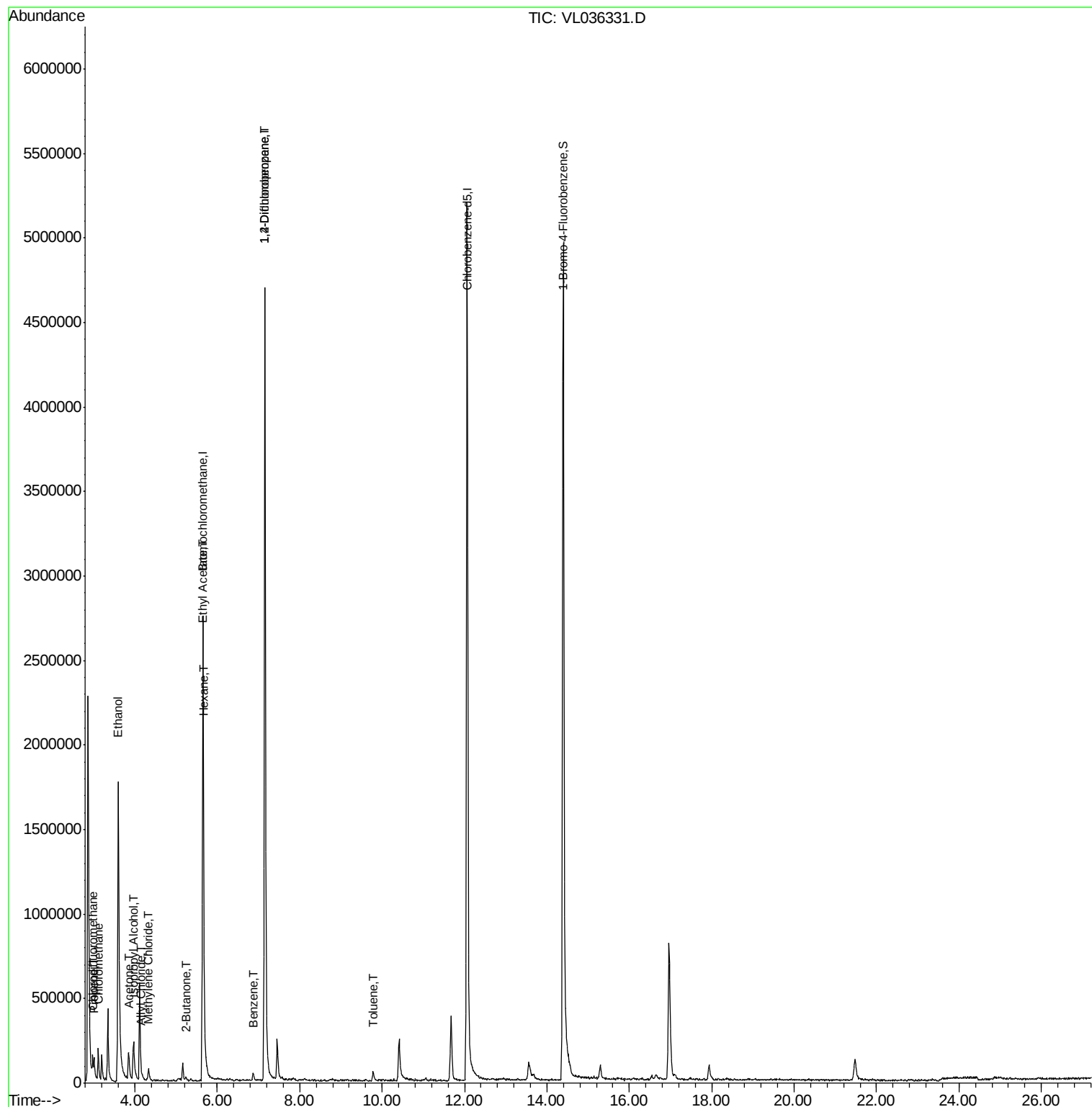
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	187063	0.885	ppbv #	92
4) Chloromethane	3.12	50	3477	0.034	ppbv	98
9) Propene	3.01	41	18241	0.232	ppbv #	64
13) Ethanol	3.59	45	2479711	167.547	ppbv	91
15) Acetone	3.84	43	178273	0.857	ppbv #	86
19) Isopropyl Alcohol	3.96	45	134144	1.165	ppbv #	79
20) Methylene Chloride	4.32	84	8962	0.134	ppbv #	89
21) Allyl Chloride	4.16	41	5501	0.048	ppbv #	16
25) Ethyl Acetate	5.66	43	45155	0.112	ppbv #	94
26) Hexane	5.67	57	21871	0.133	ppbv #	87
34) 2-Butanone	5.23	43	8812	0.036	ppbv #	55
36) Benzene	6.87	78	36273	0.115	ppbv	98
39) 1,2-Dichloropropane	7.16	63	1079329	8.439	ppbv #	23
53) Toluene	9.78	91	16787	0.049	ppbv #	18

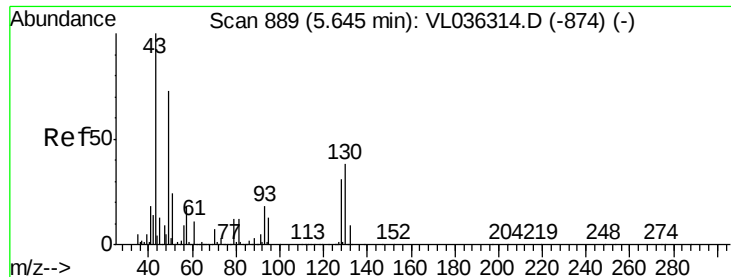
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. 0.00 min

Lab File: VL036331.D

Acq: 10 Feb 2021 23:53

Instrument :
MSVOA_L
ClientSampleId :

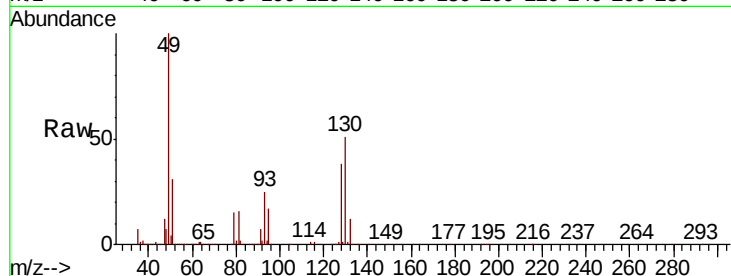
Tot Ion: 49 Resp: 1700915

Ion	Ratio	Lower	Upper
49	100		
128	41.8	20.8	62.5
130	53.1	26.7	80.1

49 100

128 41.8 20.8 62.5

130 53.1 26.7 80.1

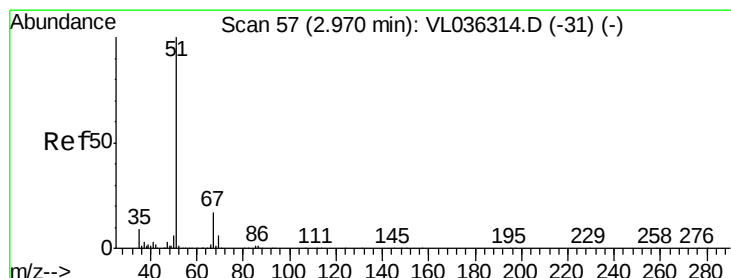
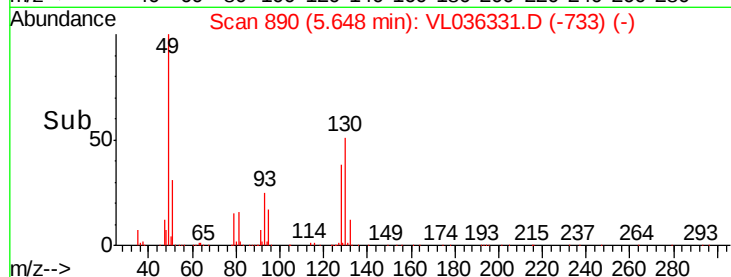
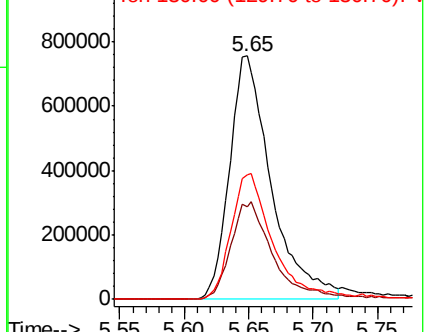


Abundance

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: 0.885 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036331.D

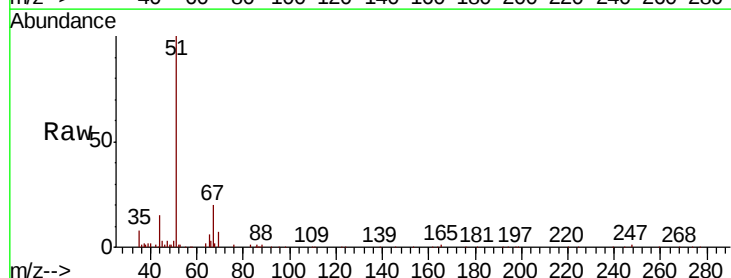
Acq: 10 Feb 2021 23:53

Tgt Ion: 51 Resp: 187063

Ion	Ratio	Lower	Upper
51	100		
67	14.7	14.7	22.1

51 100

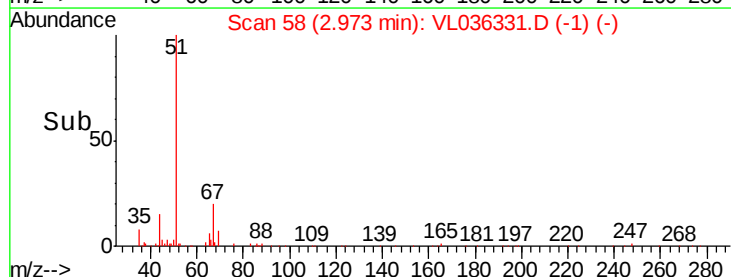
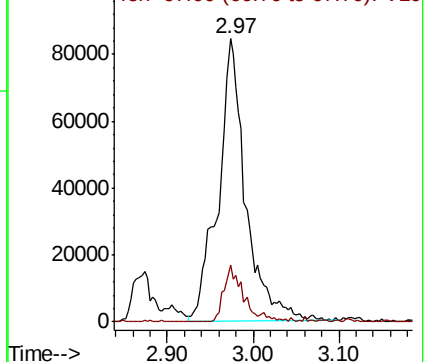
67 14.7 14.7 22.1

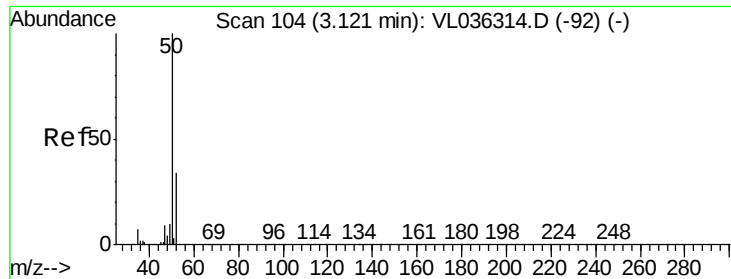


Abundance

Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL036331.D

Acq: 10 Feb 2021 23:53

Instrument :

MSVOA_L

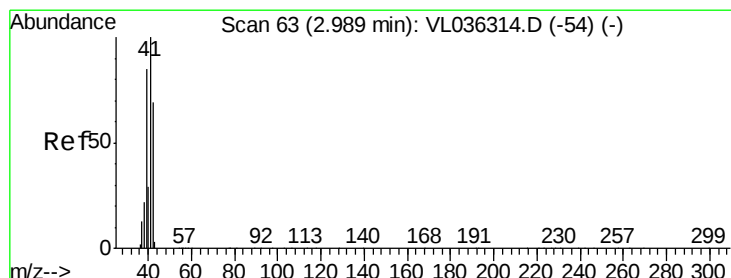
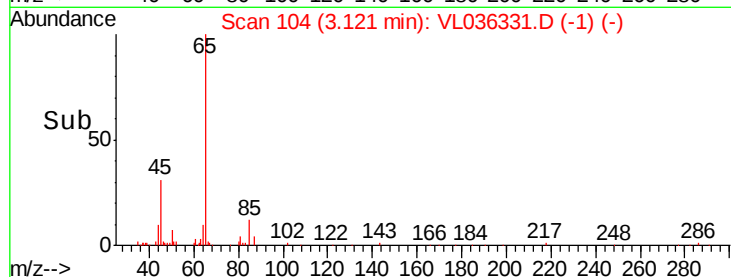
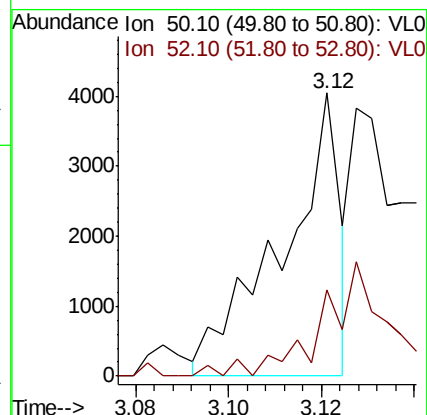
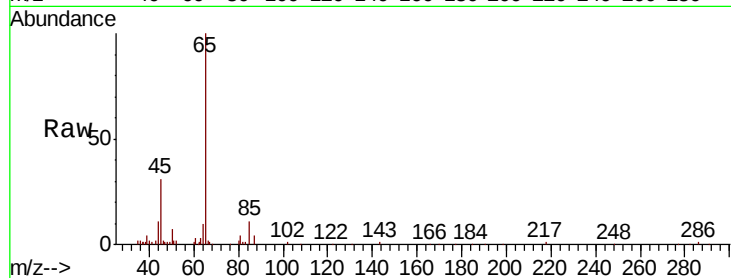
ClientSampleId :

Tot Ion: 50 Resp: 3477

Ion Ratio Lower Upper

50 100

52 32.3 27.0 40.4



#9

Propene

Concen: 0.232 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.02 min

Lab File: VL036331.D

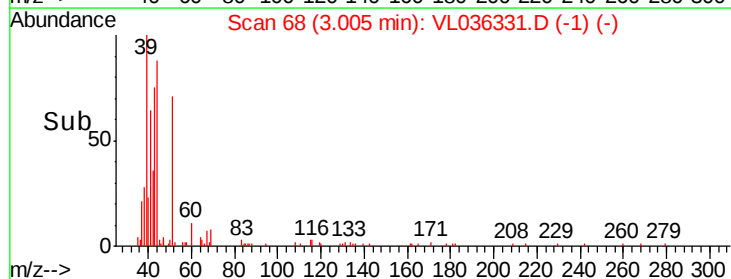
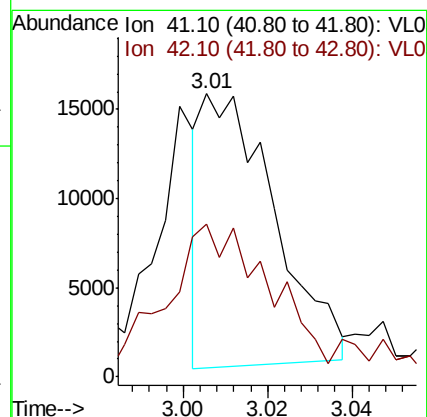
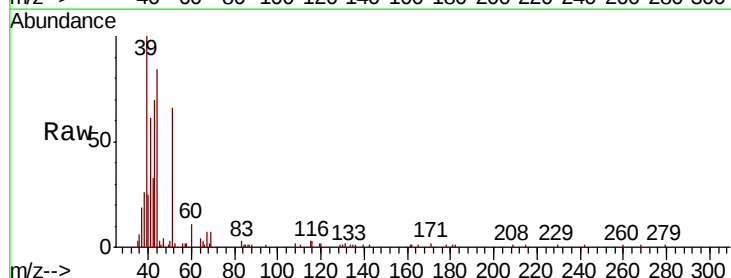
Acq: 10 Feb 2021 23:53

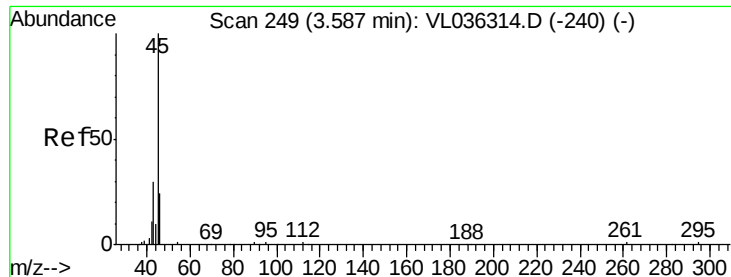
Tgt Ion: 41 Resp: 18241

Ion Ratio Lower Upper

41 100

42 99.7 56.2 84.2#

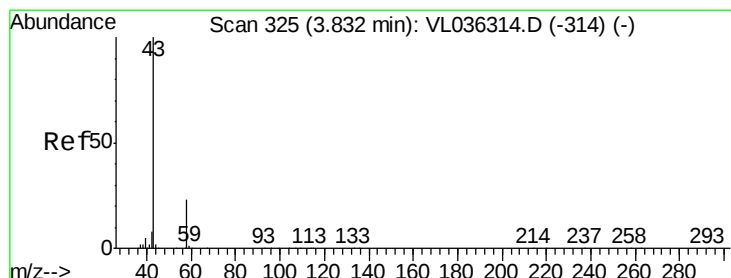
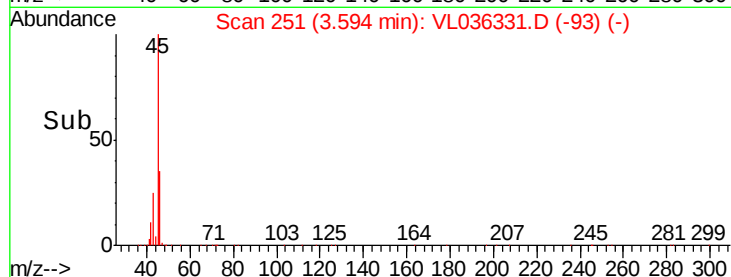
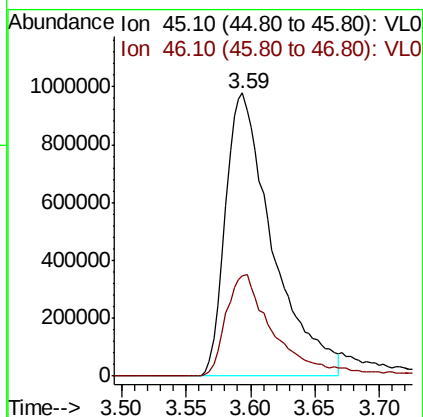
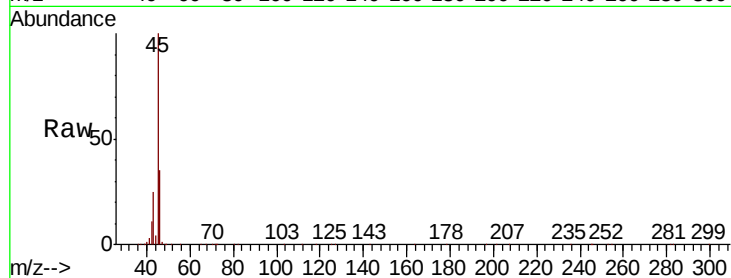




#13
Ethanol
Concen: 167.547 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.01 min
Lab File: VL036331.D
Acq: 10 Feb 2021 23:53

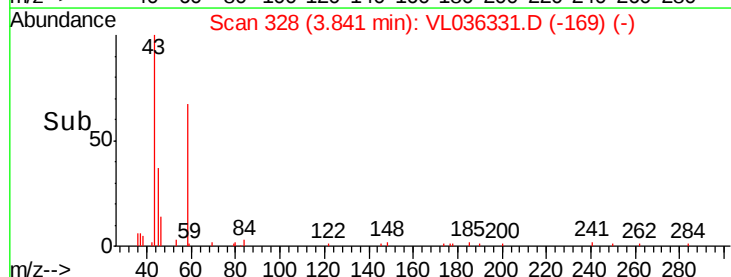
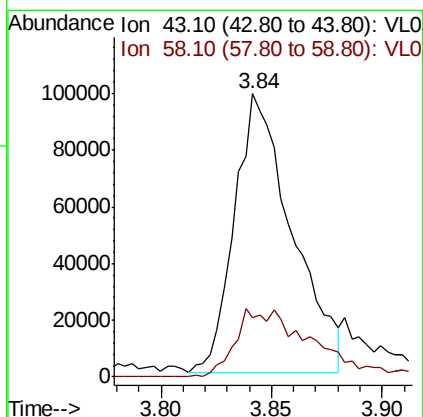
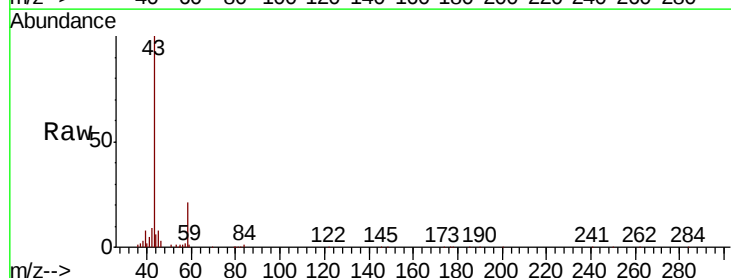
Instrument :
MSVOA_L
ClientSampleId :

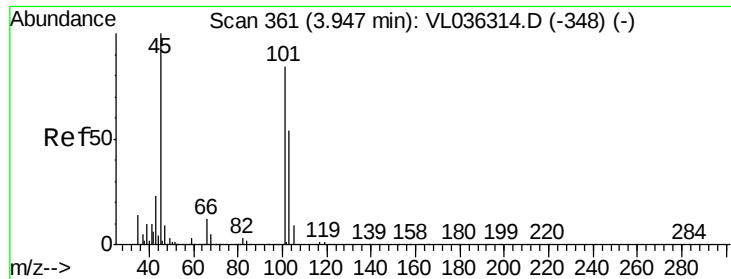
Tot Ion: 45 Resp: 2479711
Ion Ratio Lower Upper
45 100
46 38.4 17.7 70.7



#15
Acetone
Concen: 0.857 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.01 min
Lab File: VL036331.D
Acq: 10 Feb 2021 23:53

Tgt Ion: 43 Resp: 178273
Ion Ratio Lower Upper
43 100
58 32.7 20.3 30.5#





#19

Isopropyl Alcohol

Concen: 1.165 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL036331.D

Acq: 10 Feb 2021 23:53

Instrument :

MSVOA_L

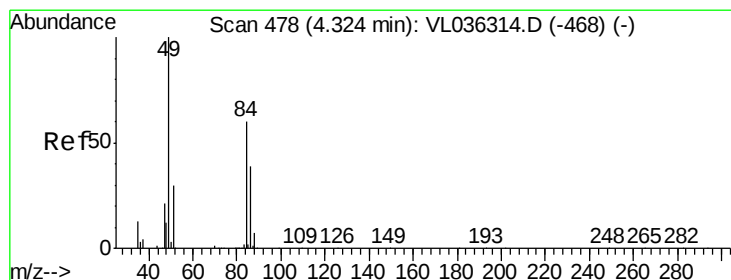
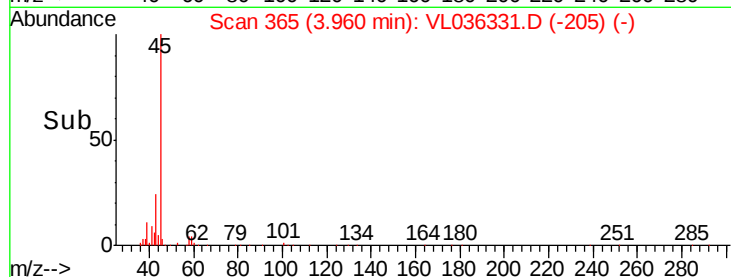
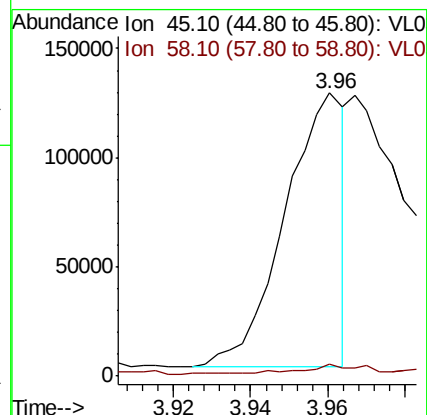
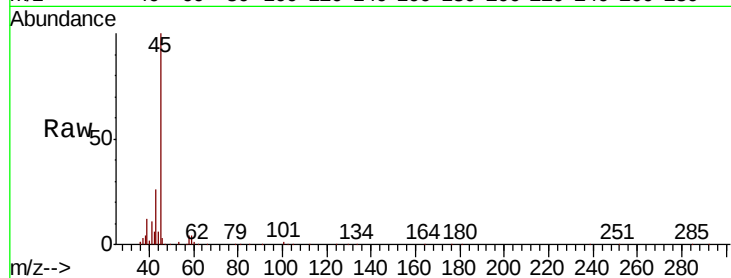
ClientSampleId :

Tot Ion: 45 Resp: 134144

Ion Ratio Lower Upper

45 100

58 9.7 1.9 2.9#



#20

Methylene Chloride

Concen: 0.134 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.00 min

Lab File: VL036331.D

Acq: 10 Feb 2021 23:53

Tgt Ion: 84 Resp: 8962

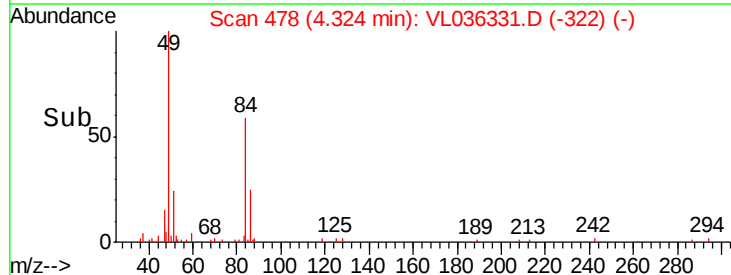
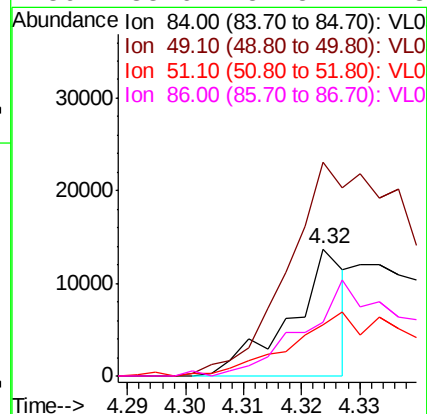
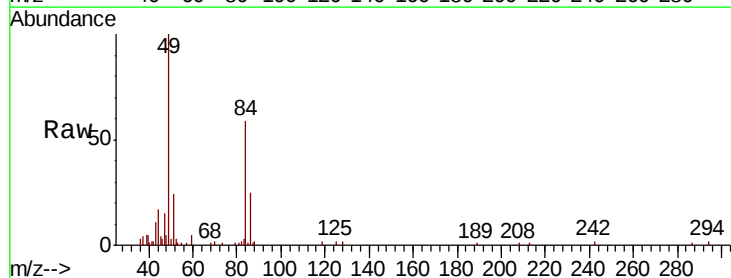
Ion Ratio Lower Upper

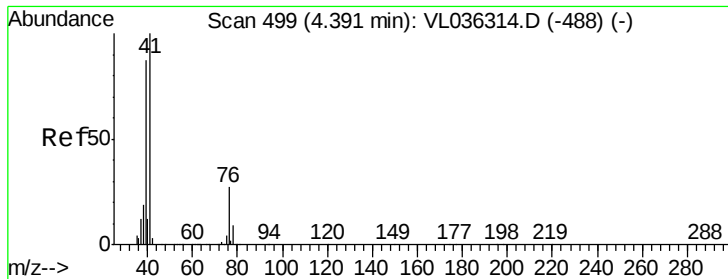
84 100

49 166.8 133.8 200.8

51 38.3 41.4 62.0#

86 38.6 51.5 77.3#

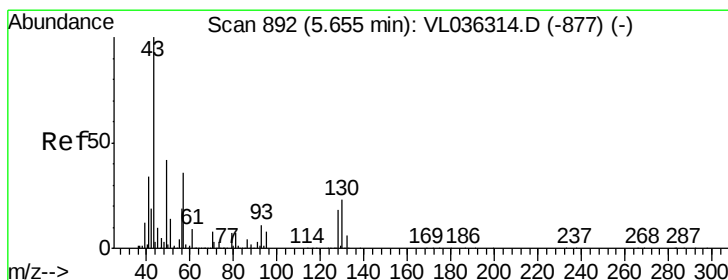
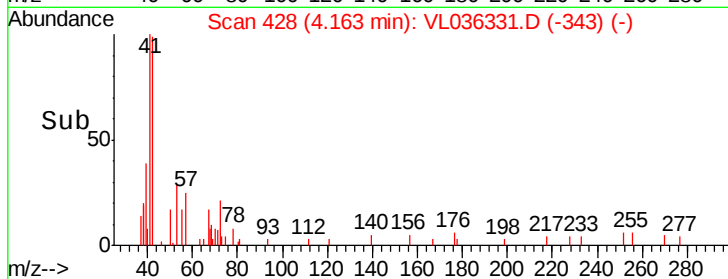
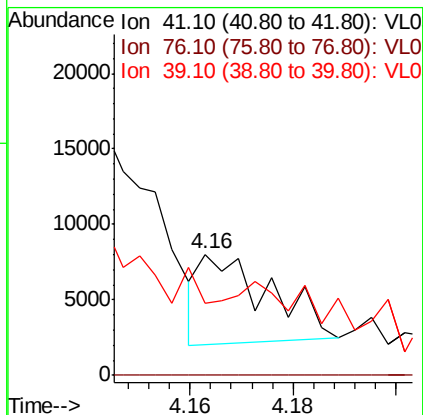
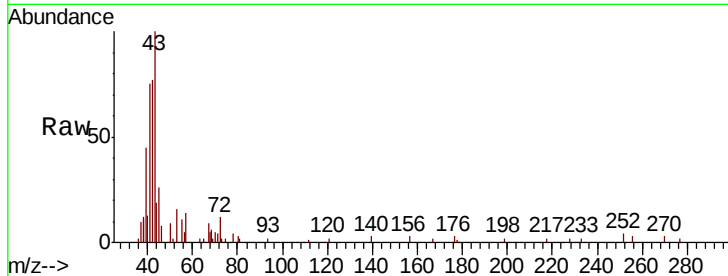




#21
Allvl Chloride
Concen: 0.048 ppbv
RT: 4.16 min Scan# 428
Delta R.T. -0.23 min
Lab File: VL036331.D
Acq: 10 Feb 2021 23:53

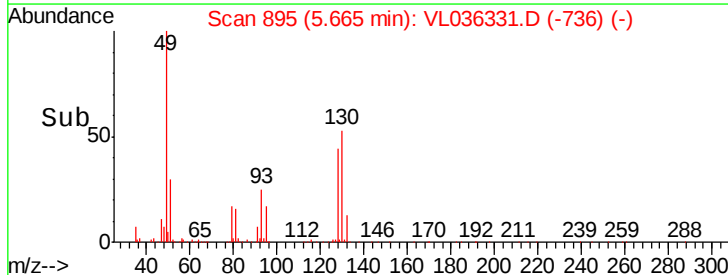
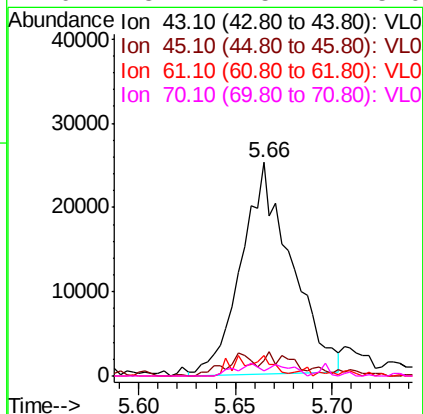
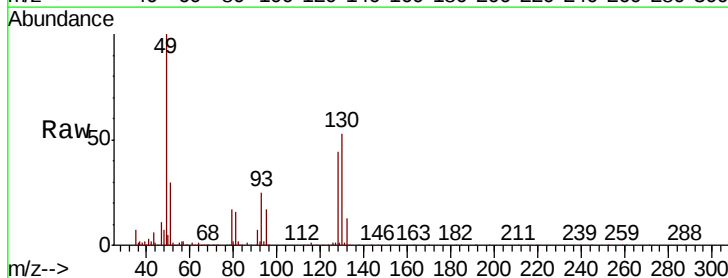
Instrument :
MSVOA_L
ClientSampled :

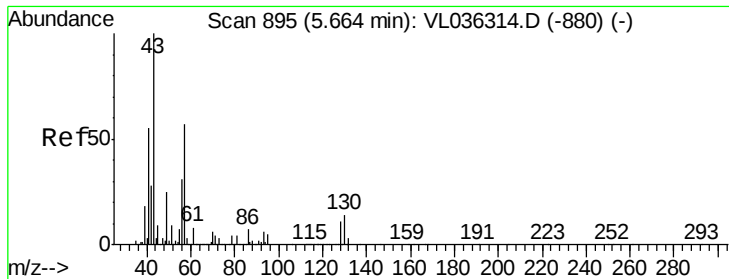
Tot Ion: 41 Resp: 5501
Ion Ratio Lower Upper
41 100
76 1.4 22.0 33.0#
39 0.0 70.2 105.2#



#25
Ethyl Acetate
Concen: 0.112 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.01 min
Lab File: VL036331.D
Acq: 10 Feb 2021 23:53

Tgt Ion: 43 Resp: 45155
Ion Ratio Lower Upper
43 100
45 14.8 8.3 12.5#
61 9.2 7.3 10.9
70 5.4 5.4 8.0

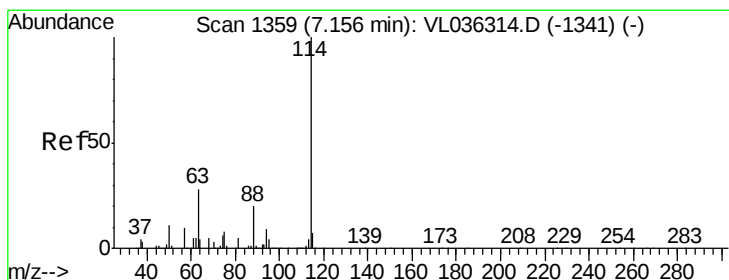
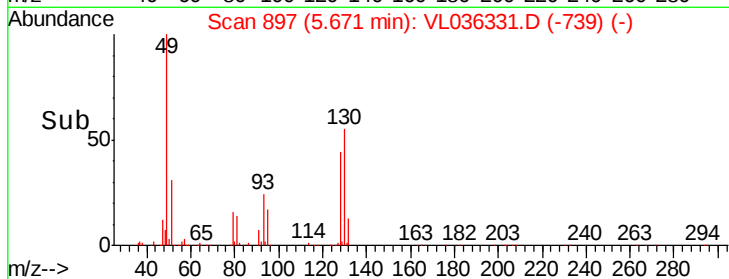
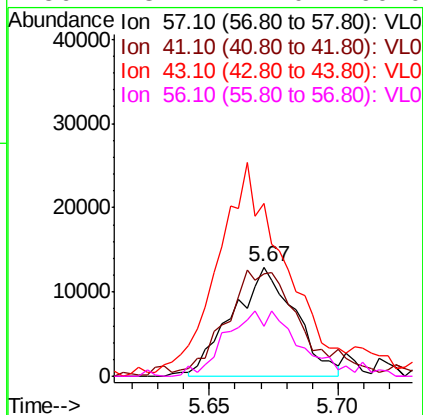
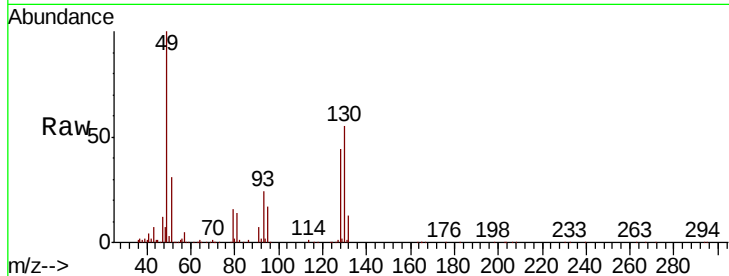




#26
Hexane
Concen: 0.133 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL036331.D
Acq: 10 Feb 2021 23:53

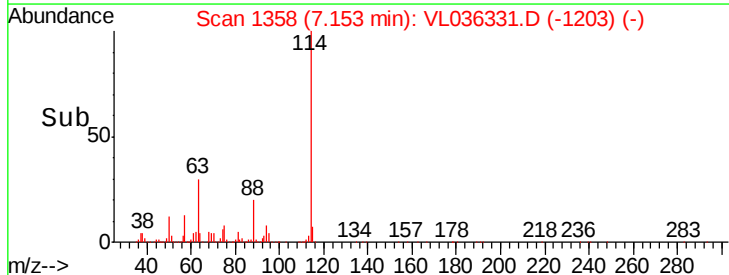
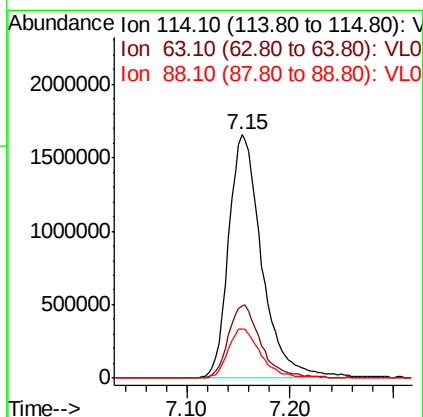
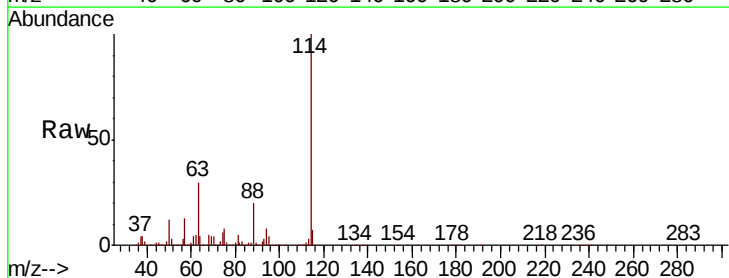
Instrument :
MSVOA_L
ClientSampleId :

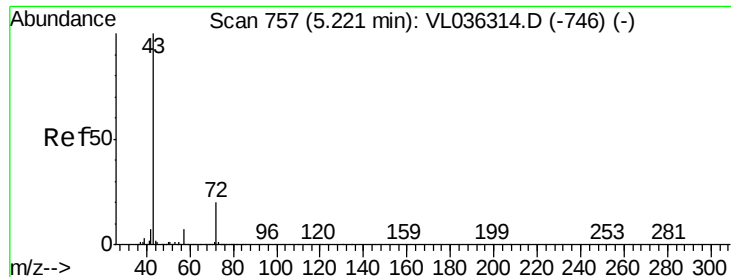
Tot Ion: 57 Resp: 21871
Ion Ratio Lower Upper
57 100
41 128.4 81.7 122.5#
43 239.6 199.1 298.7
56 73.4 44.0 66.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VL036331.D
Acq: 10 Feb 2021 23:53

Tgt Ion: 114 Resp: 3706353
Ion Ratio Lower Upper
114 100
63 30.0 24.1 36.1
88 20.3 16.0 24.0

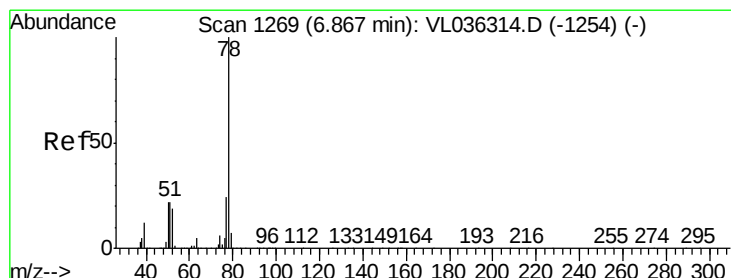
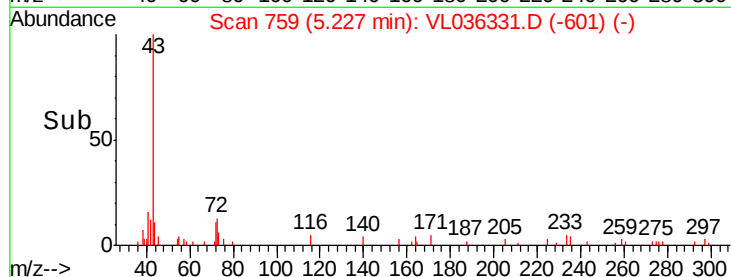
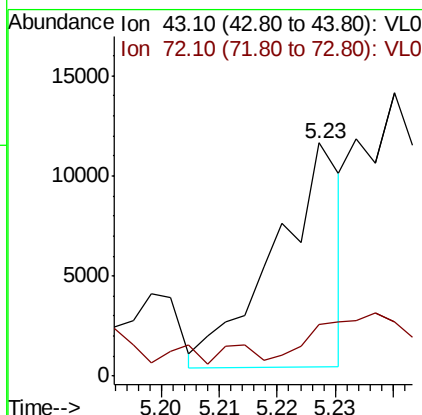
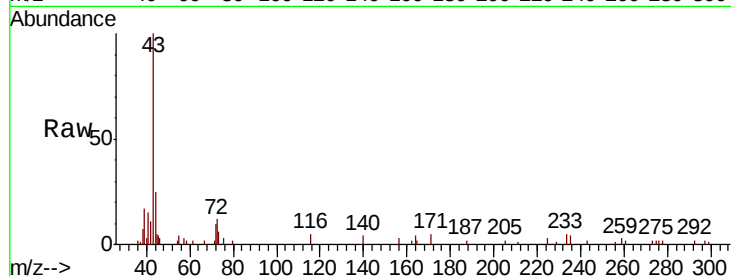




#34
2-Butanone
Concen: 0.036 ppbv
RT: 5.23 min Scan# 759
Delta R.T. 0.01 min
Lab File: VL036331.D
Acq: 10 Feb 2021 23:53

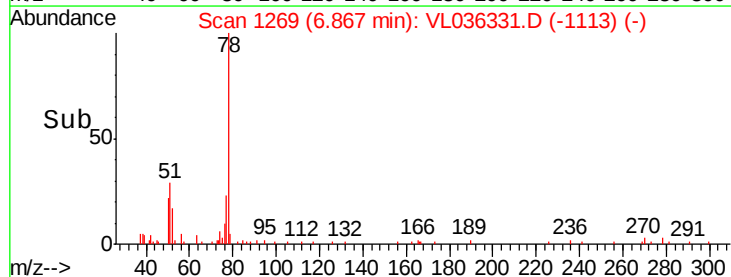
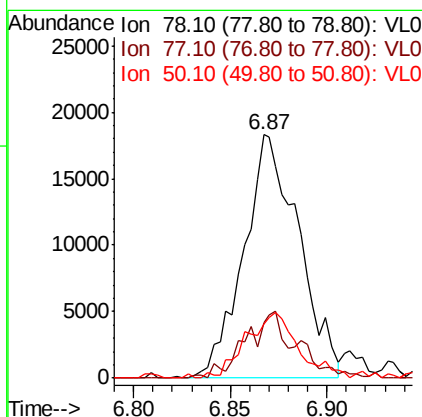
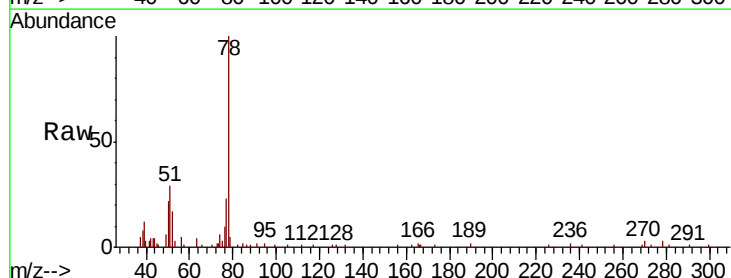
Instrument :
MSVOA_L
ClientSampled :

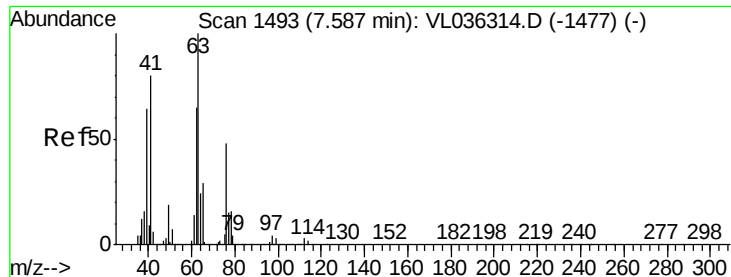
Tot Ion: 43 Resp: 8812
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#



#36
Benzene
Concen: 0.115 ppbv
RT: 6.87 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VL036331.D
Acq: 10 Feb 2021 23:53

Tgt Ion: 78 Resp: 36273
Ion Ratio Lower Upper
78 100
77 22.7 18.9 28.3
50 20.3 17.3 25.9





#39

1,2-Dichloropropane

Concen: 8.439 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.43 min

Lab File: VL036331.D

Acq: 10 Feb 2021 23:53

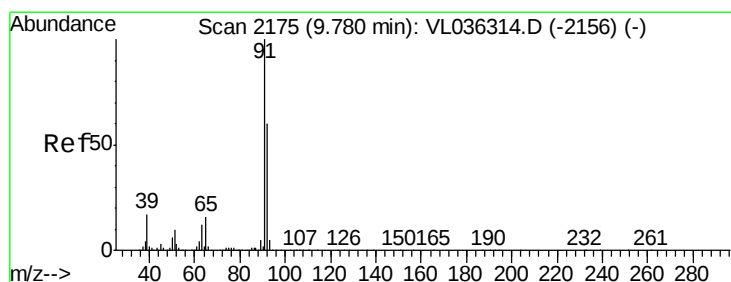
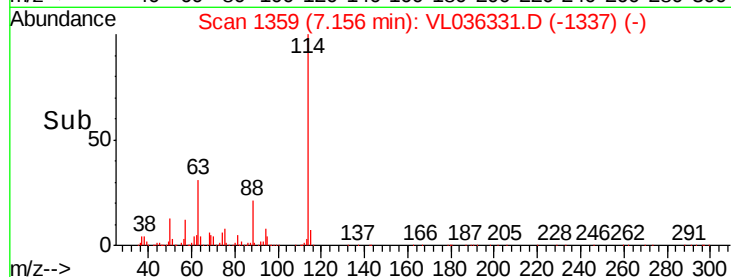
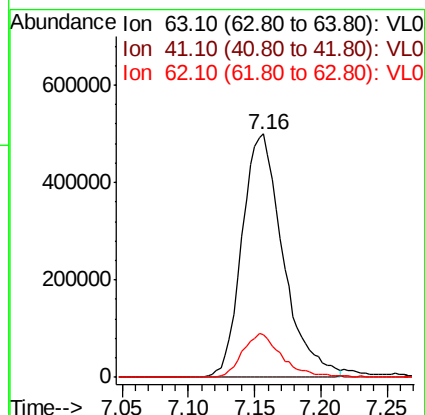
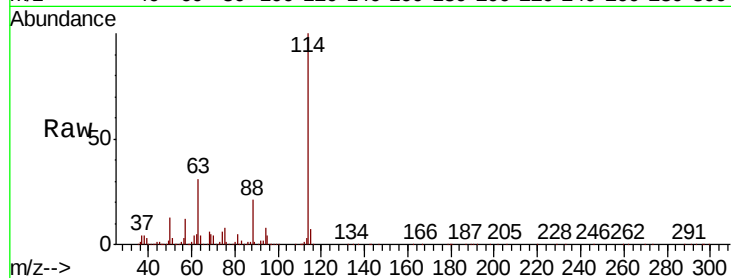
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 63 Resp: 1079329

Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.8	95.6#
62	17.6	52.3	78.5#



#53

Toluene

Concen: 0.049 ppbv

RT: 9.78 min Scan# 2174

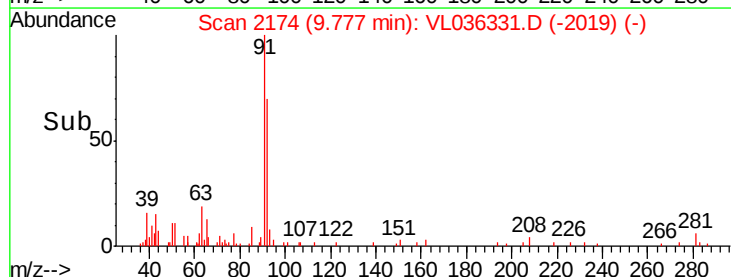
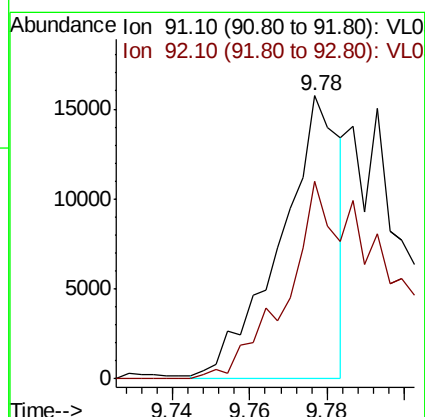
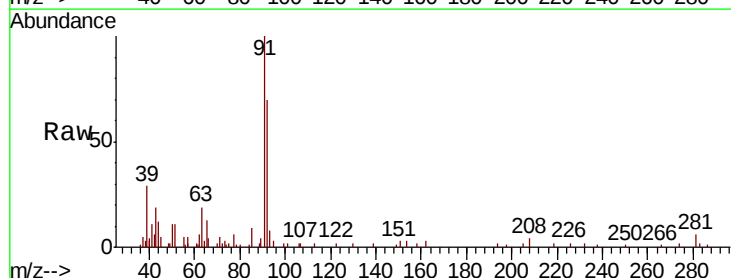
Delta R.T. -0.00 min

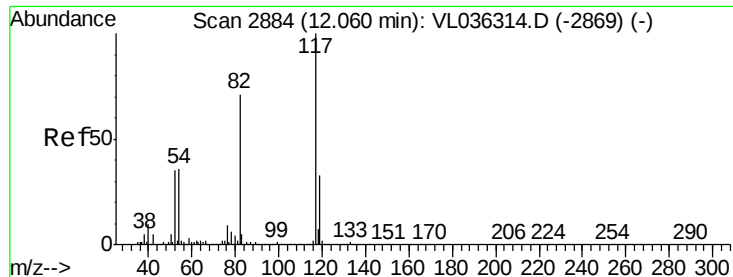
Lab File: VL036331.D

Acq: 10 Feb 2021 23:53

Tgt Ion: 91 Resp: 16787

Ion	Ratio	Lower	Upper
91	100		
92	123.0	48.6	72.8#

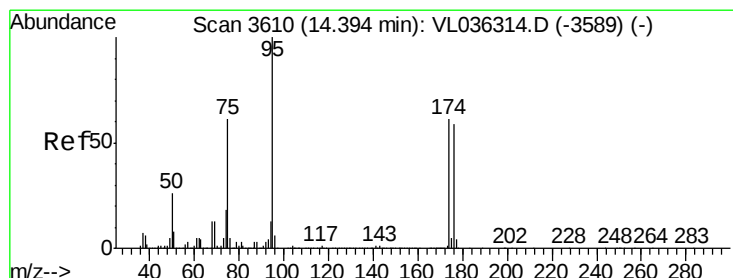
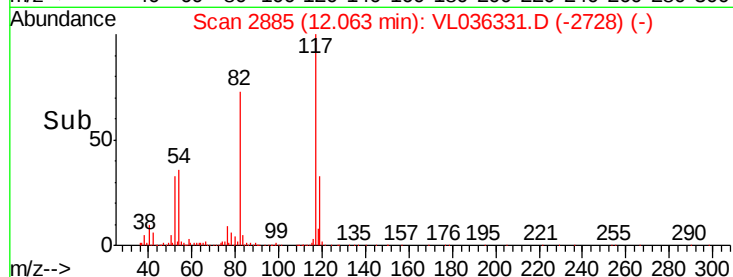
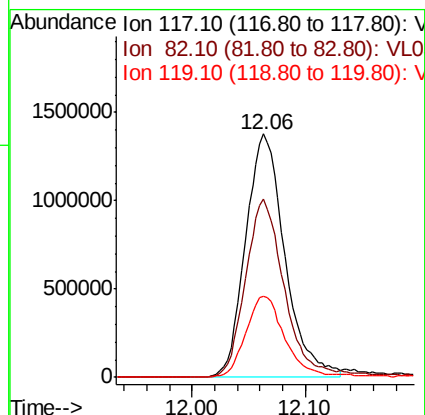
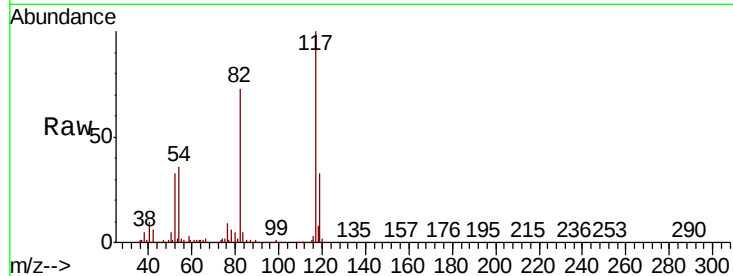




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. 0.00 min
Lab File: VL036331.D
Acq: 10 Feb 2021 23:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3325789
Ion Ratio Lower Upper
117 100
82 74.8 59.1 88.7
119 34.5 46.3 69.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.735 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. 0.00 min
Lab File: VL036331.D
Acq: 10 Feb 2021 23:53

Tgt Ion: 95 Resp: 2663825
Ion Ratio Lower Upper
95 100
174 65.3 49.8 74.6
175 4.5 3.7 5.5

