

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036541.D
 Acq On : 29 Mar 2021 16:05
 Operator : SY/AP
 Sample : M1760-19
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 06:40:48 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	5.66	49	1505157	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3356715	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3021258	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2343739	9.73	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

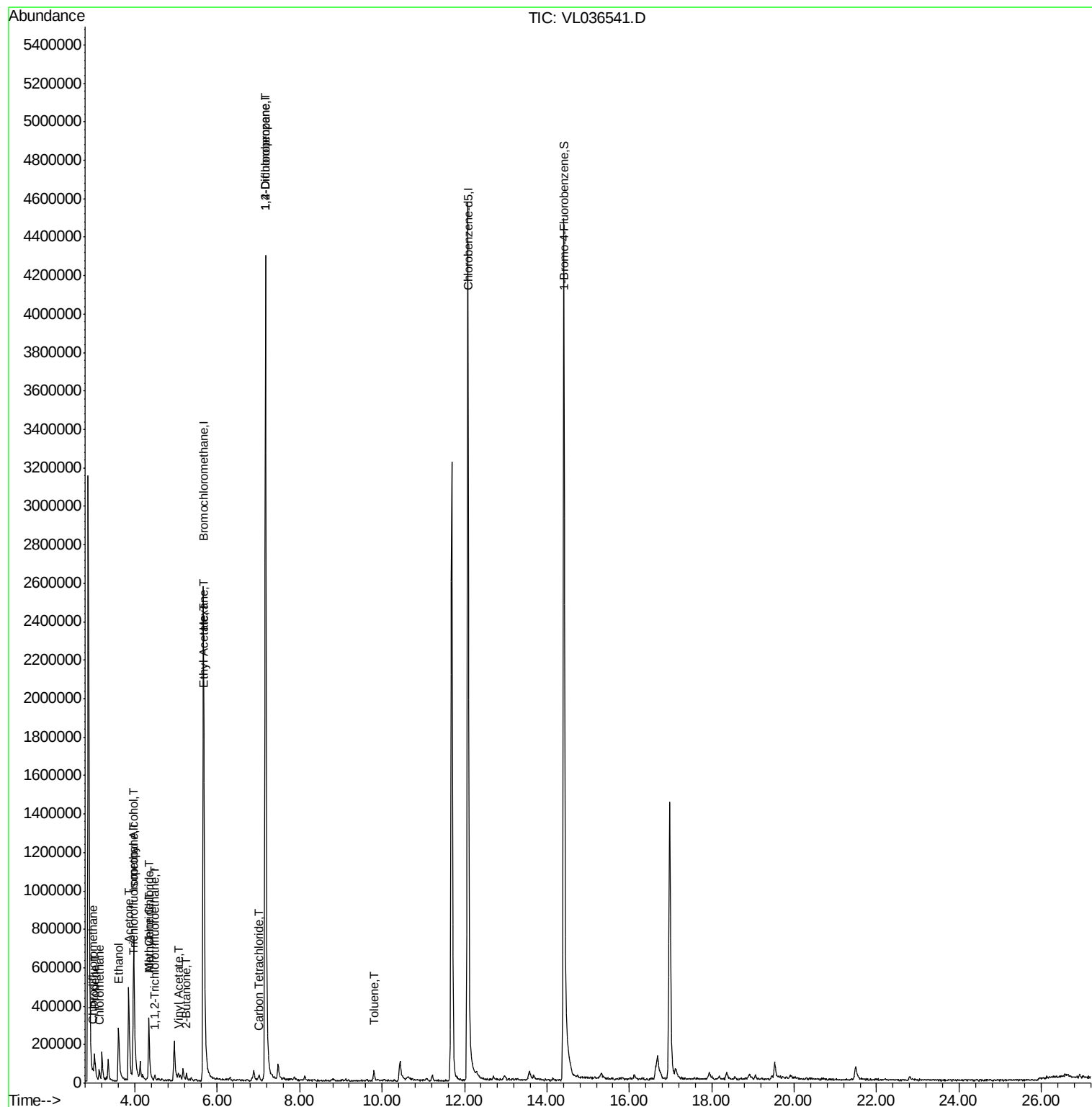
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	76383	0.272	ppbv #	85
4) Chloromethane	3.13	50	52272	0.526	ppbv	96
9) Propene	3.02	41	28465	0.318	ppbv	93
11) Trichlorofluoromethane	3.94	101	50391	0.201	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.48	101	9377	0.059	ppbv #	81
13) Ethanol	3.60	45	334335	31.317	ppbv	100
15) Acetone	3.85	43	634068	4.280	ppbv	99
19) Isopropyl Alcohol	3.97	45	996148	12.224	ppbv	99
20) Methylene Chloride	4.34	84	122389	1.765	ppbv	97
21) Allyl Chloride	4.35	41	2386	0.020	ppbv #	17
23) Vinyl Acetate	5.07	43	6675	0.026	ppbv #	37
25) Ethyl Acetate	5.68	43	68158	0.194	ppbv #	85
26) Hexane	5.68	57	87165	0.533	ppbv #	46
34) 2-Butanone	5.24	43	38248	0.233	ppbv #	79
35) Carbon Tetrachloride	7.00	117	6169	0.024	ppbv	94
39) 1,2-Dichloropropane	7.17	63	926688	7.379	ppbv #	23
53) Toluene	9.80	91	18494	0.056	ppbv #	20

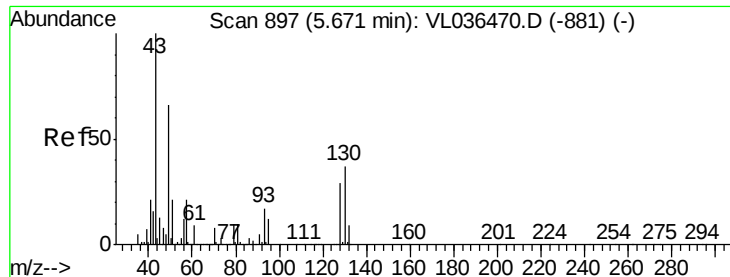
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
Data File : VL036541.D
Acq On : 29 Mar 2021 16:05
Operator : SY/AP
Sample : M1760-19
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Mar 30 06:40:48 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

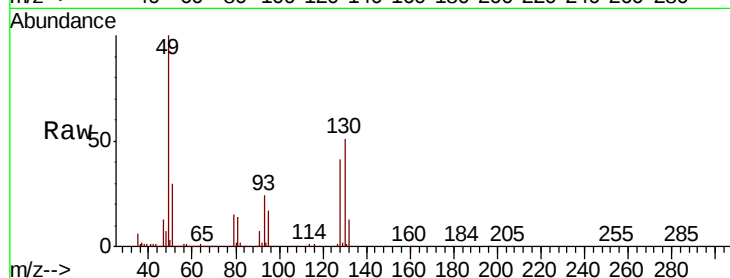
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 49 Resp: 1505157

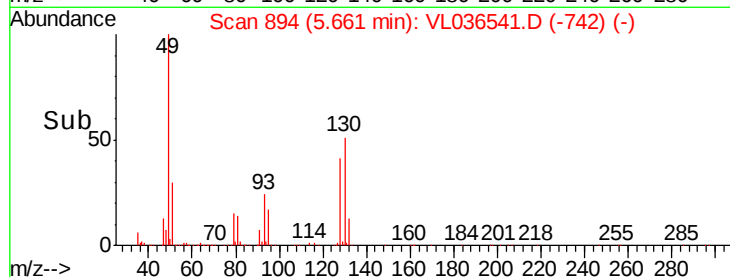
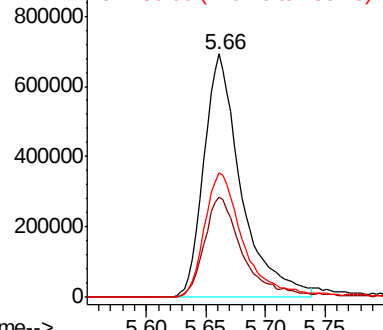
Ion	Ratio	Lower	Upper
49	100		
128	43.4	23.5	70.6
130	55.6	29.1	87.4



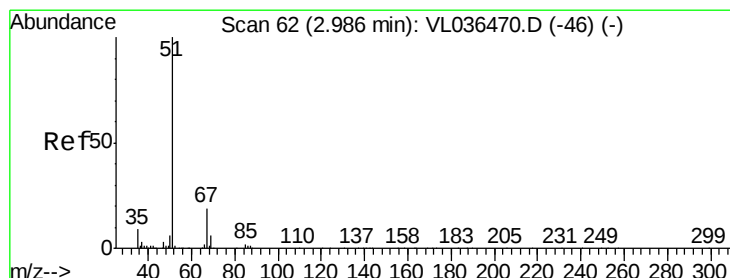
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#3

Chlorodifluoromethane

Concen: 0.272 ppbv

RT: 2.98 min Scan# 59

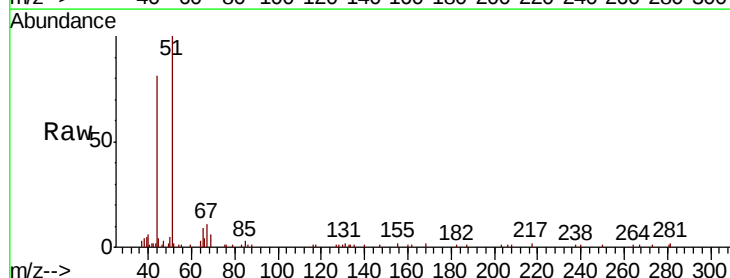
Delta R.T. -0.01 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

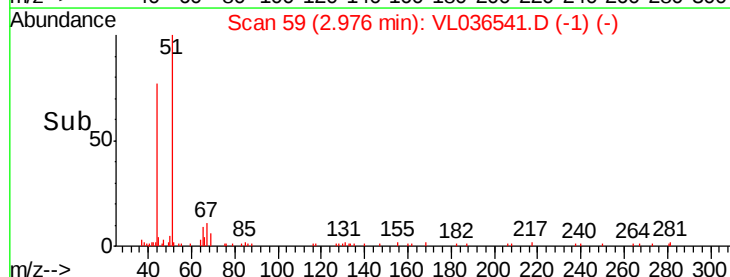
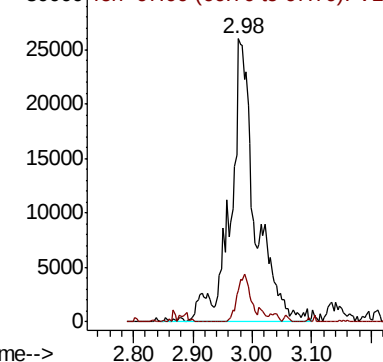
Tgt Ion: 51 Resp: 76383

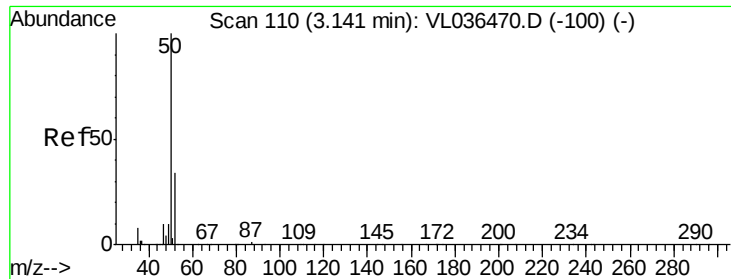
Ion	Ratio	Lower	Upper
51	100		
67	11.6	14.7	22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.526 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

Instrument :

MSVOA_L

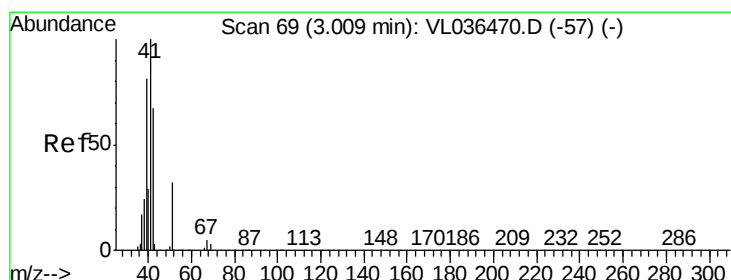
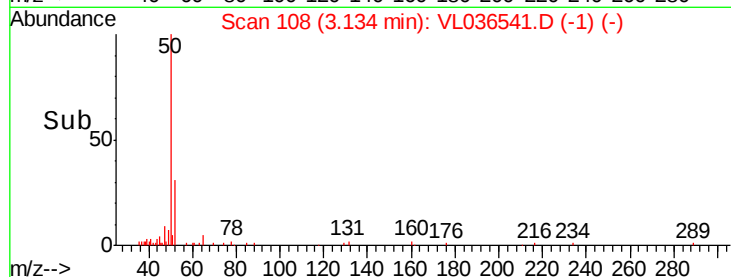
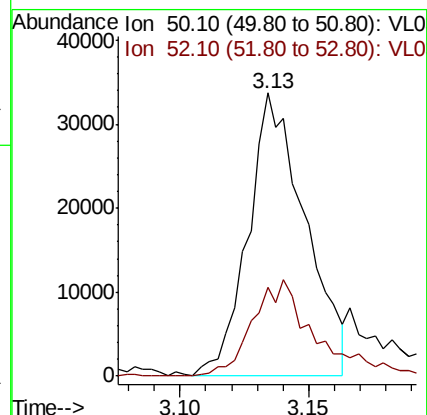
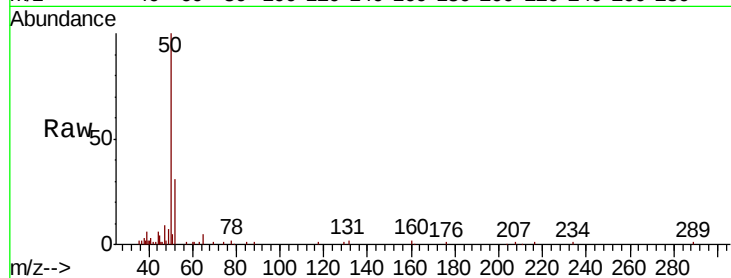
ClientSampleId :

Tot Ion: 50 Resp: 52272

Ion Ratio Lower Upper

50 100

52 31.4 27.0 40.6



#9

Propene

Concen: 0.318 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036541.D

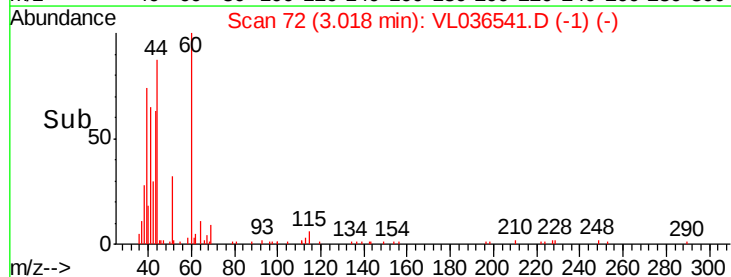
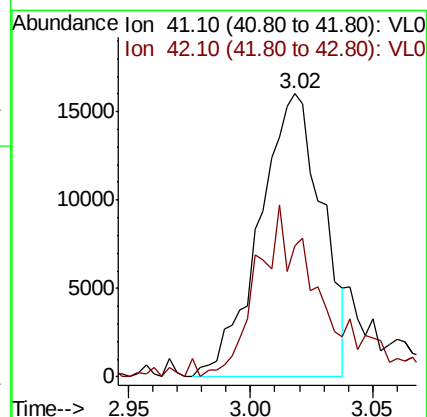
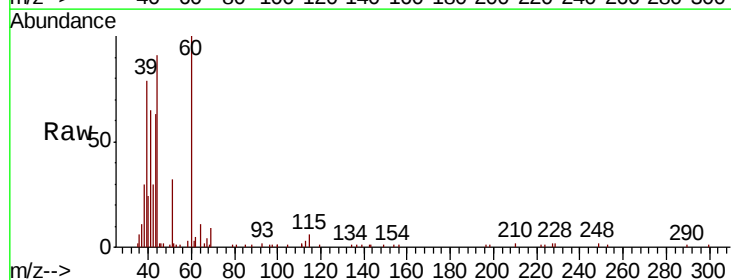
Acq: 29 Mar 2021 16:05

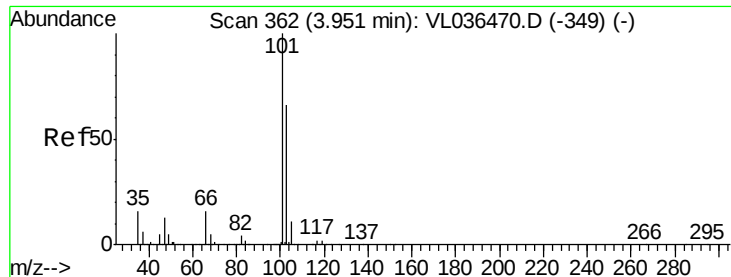
Tgt Ion: 41 Resp: 28465

Ion Ratio Lower Upper

41 100

42 65.1 57.0 85.4

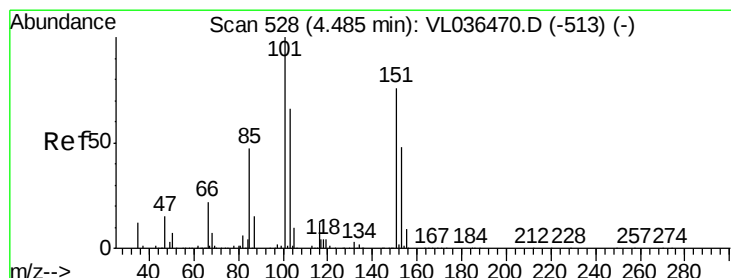
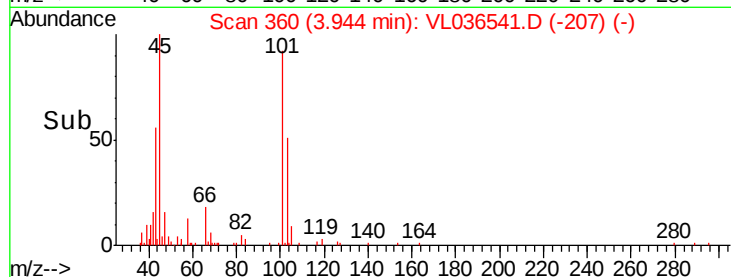
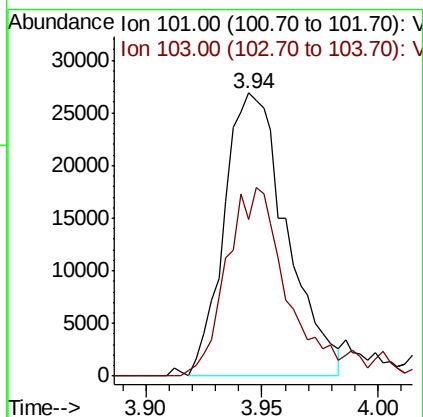
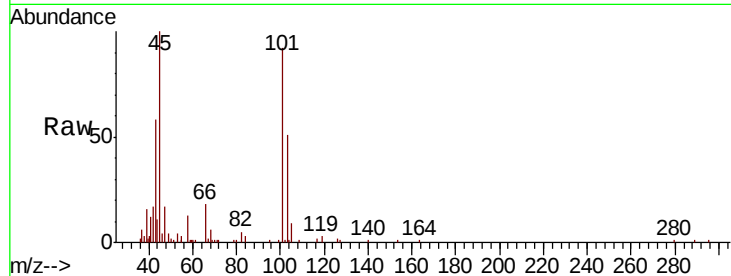




#11
 Trichlorofluoromethane
 Concen: 0.201 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL036541.D
 Acq: 29 Mar 2021 16:05

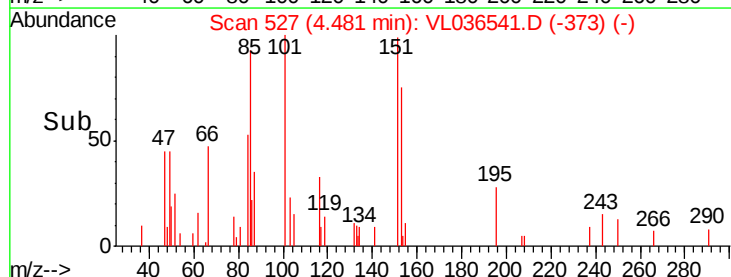
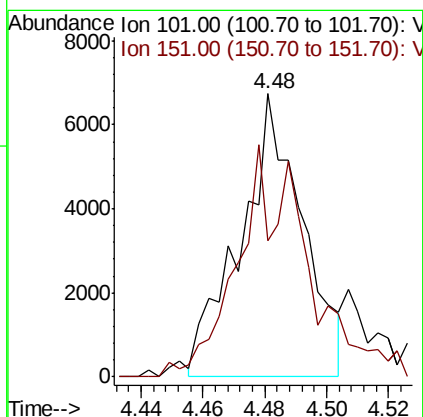
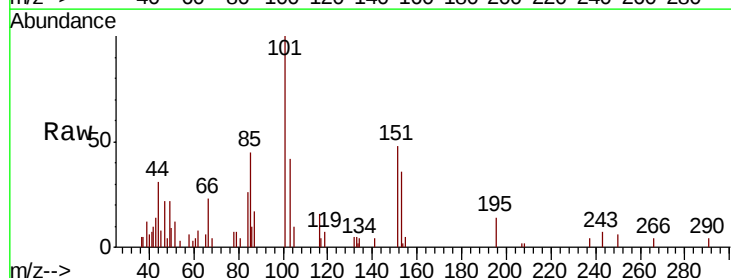
Instrument :
 MSVOA_L
 ClientSampleId :

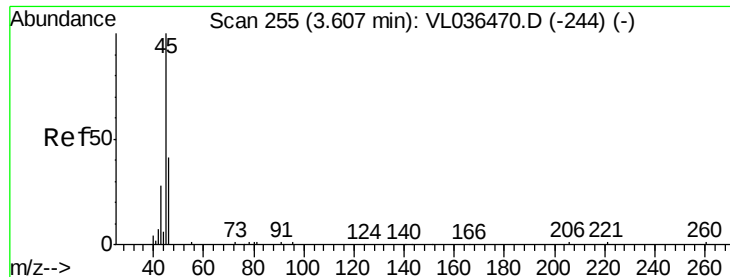
Tot Ion:101 Resp: 50391
 Ion Ratio Lower Upper
 101 100
 103 53.6 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.059 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL036541.D
 Acq: 29 Mar 2021 16:05

Tgt Ion:101 Resp: 9377
 Ion Ratio Lower Upper
 101 100
 151 92.1 60.9 91.3#





#13

Ethanol

Concen: 31.317 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

Instrument :

MSVOA_L

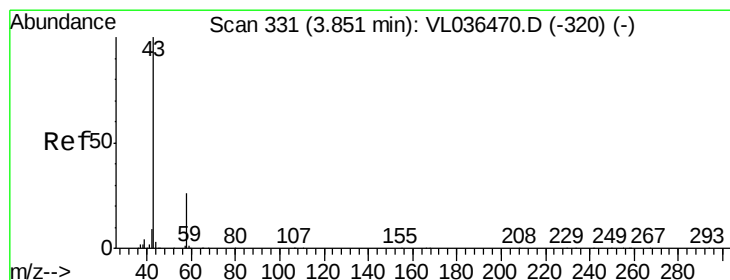
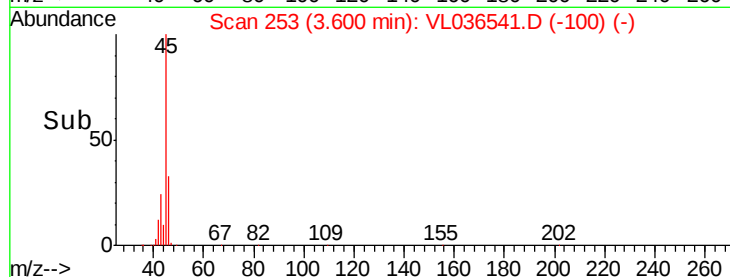
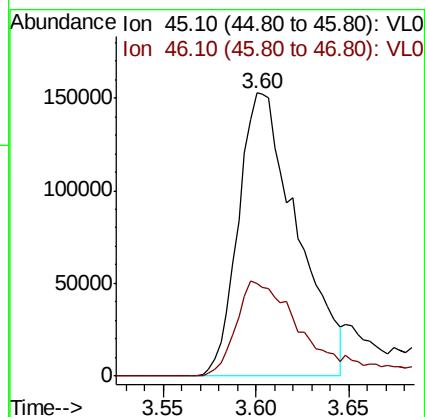
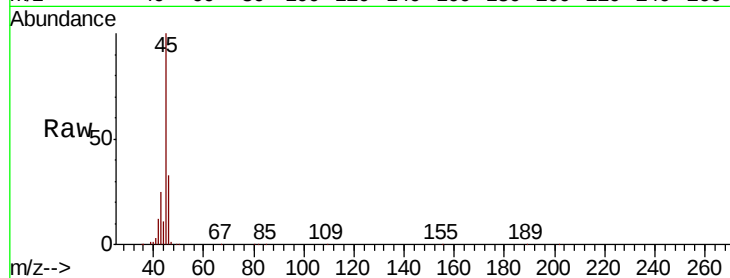
ClientSampleId :

Tot Ion: 45 Resp: 334335

Ion Ratio Lower Upper

45 100

46 41.6 16.6 66.2



#15

Acetone

Concen: 4.280 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL036541.D

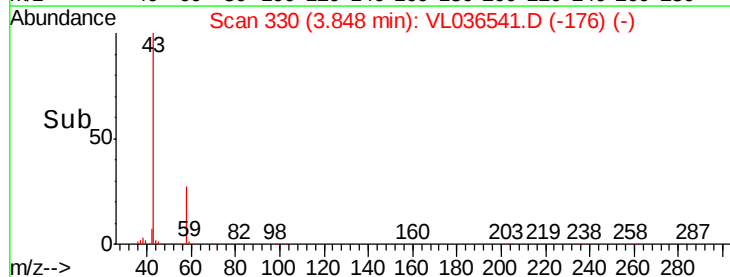
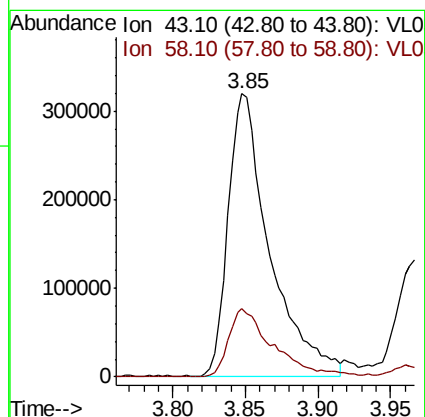
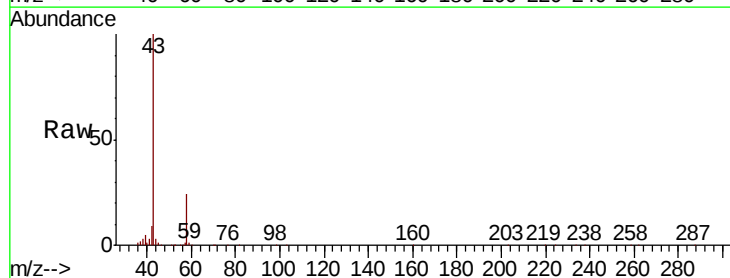
Acq: 29 Mar 2021 16:05

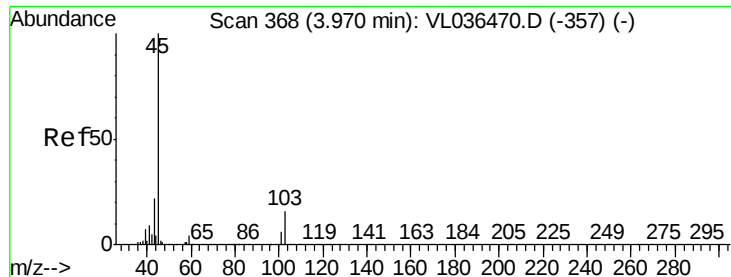
Tgt Ion: 43 Resp: 634068

Ion Ratio Lower Upper

43 100

58 26.2 21.2 31.8





#19

Isopropyl Alcohol

Concen: 12.224 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

Instrument :

MSVOA_L

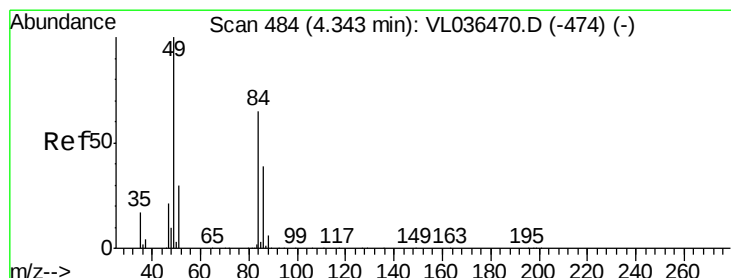
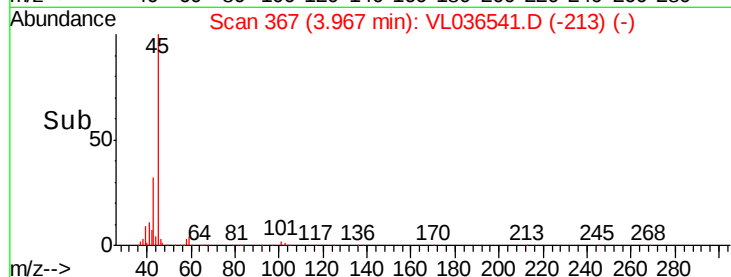
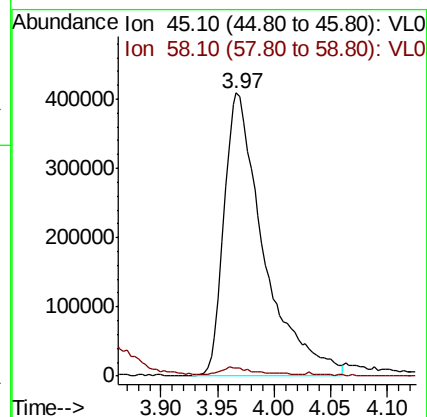
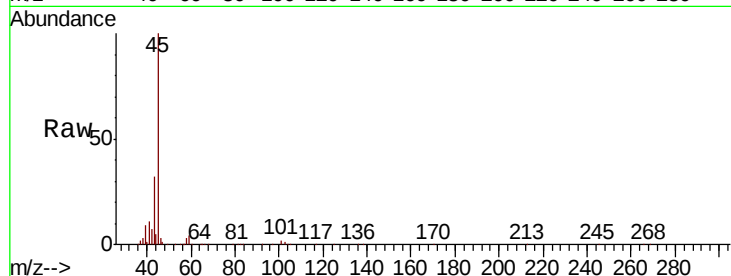
ClientSampleId :

Tot Ion: 45 Resp: 996148

Ion Ratio Lower Upper

45 100

58 3.2 2.9 4.3



#20

Methylene Chloride

Concen: 1.765 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

Tgt Ion: 84 Resp: 122389

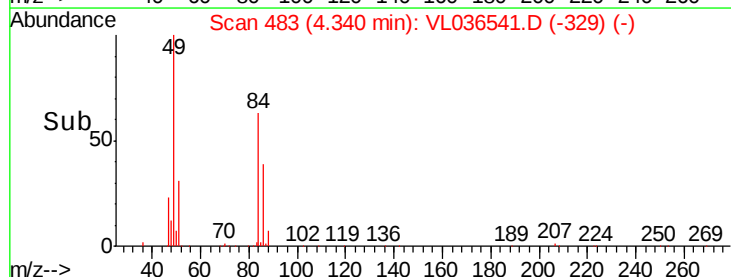
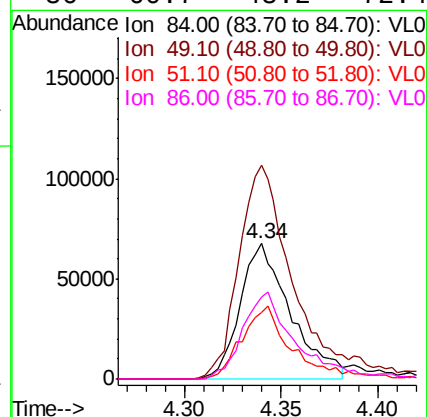
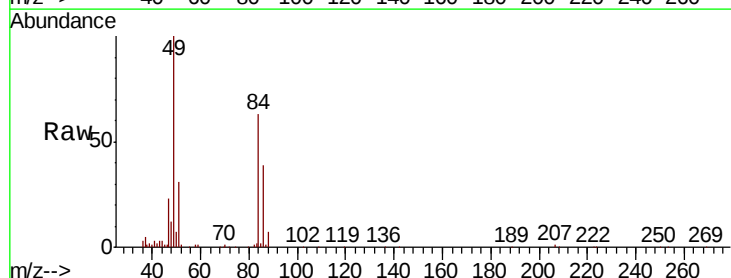
Ion Ratio Lower Upper

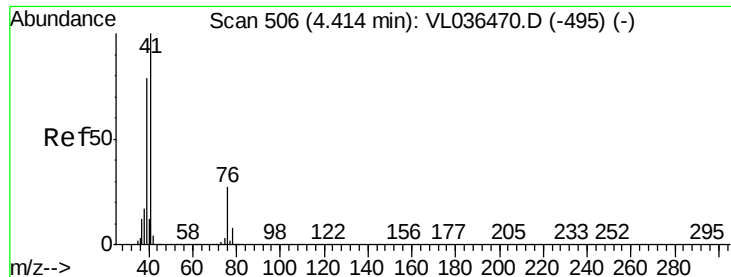
84 100

49 157.6 122.9 184.3

51 48.9 36.9 55.3

86 60.7 48.2 72.4





#21

Allvl Chloride

Concen: 0.020 ppbv

RT: 4.35 min Scan# 485

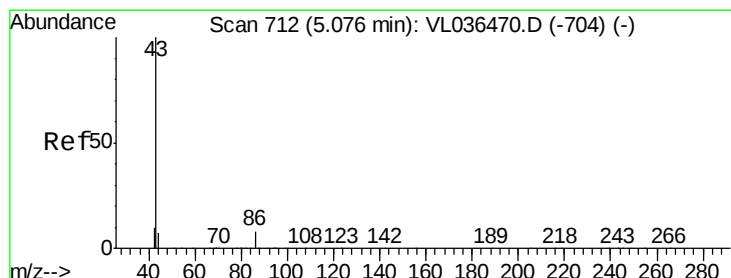
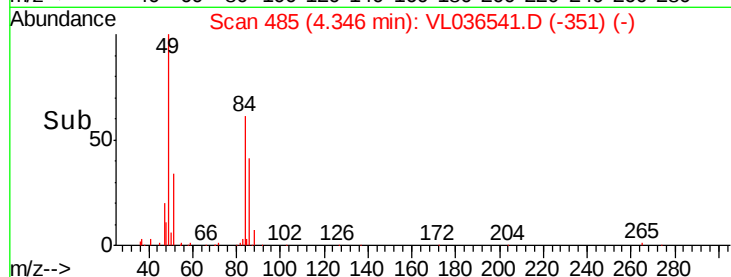
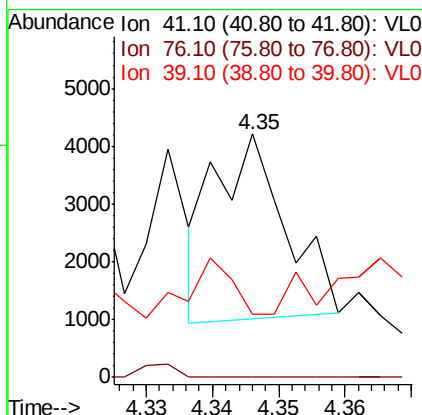
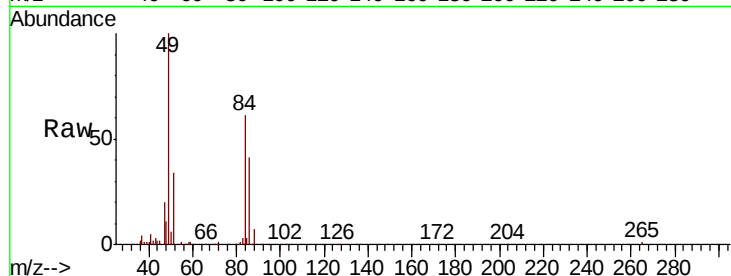
Delta R.T. -0.07 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	41	Resp:	2386
Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.9	34.3#
39	0.0	67.3	100.9#



#23

Vinyl Acetate

Concen: 0.026 ppbv

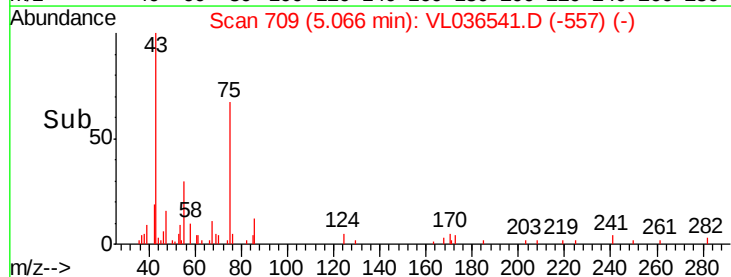
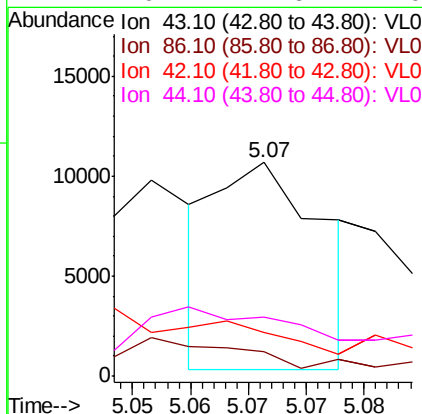
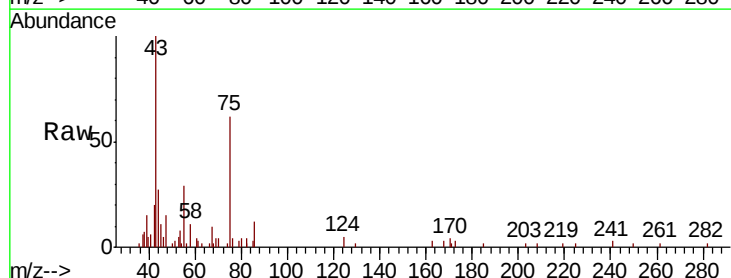
RT: 5.07 min Scan# 709

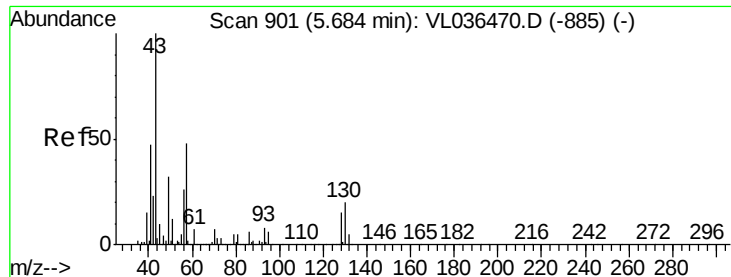
Delta R.T. -0.01 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

Tgt Ion:	43	Resp:	6675
Ion	Ratio	Lower	Upper
43	100		
86	13.7	5.4	8.0#
42	35.9	8.5	12.7#
44	40.7	4.6	7.0#

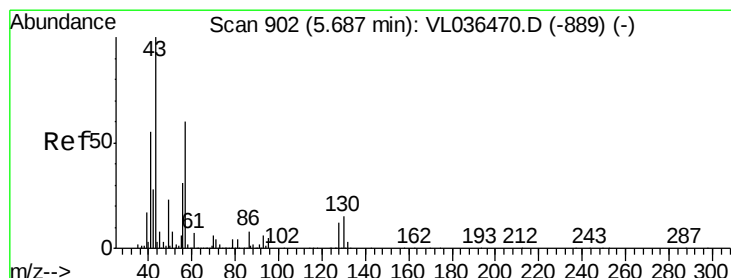
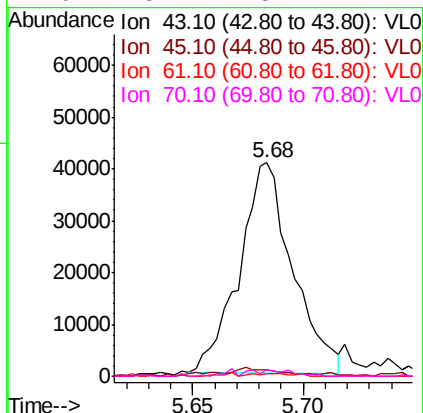
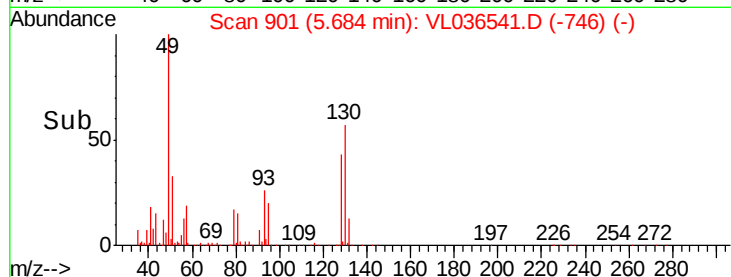
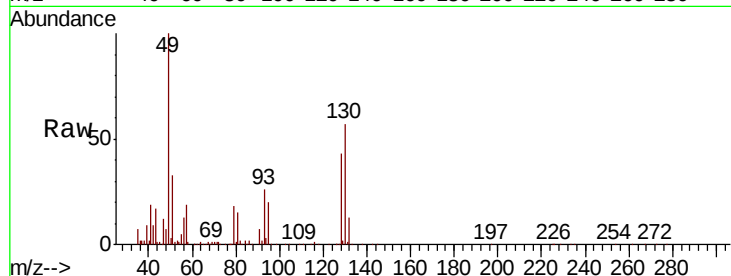




#25
Ethyl Acetate
Concen: 0.194 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036541.D
Acq: 29 Mar 2021 16:05

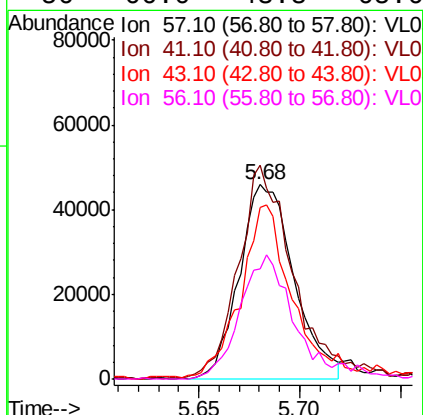
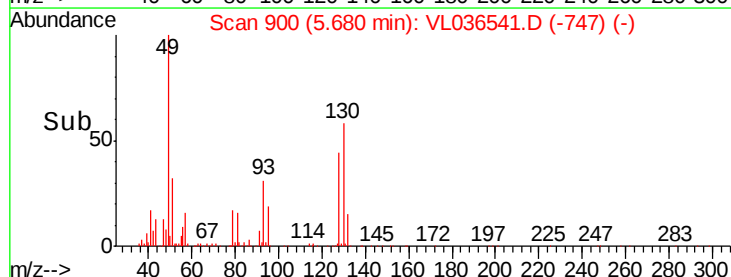
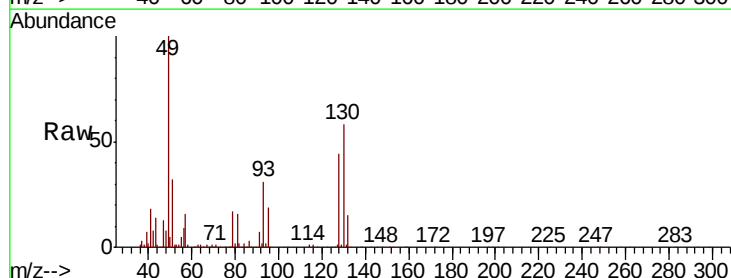
Instrument :
MSVOA_L
ClientSampled :

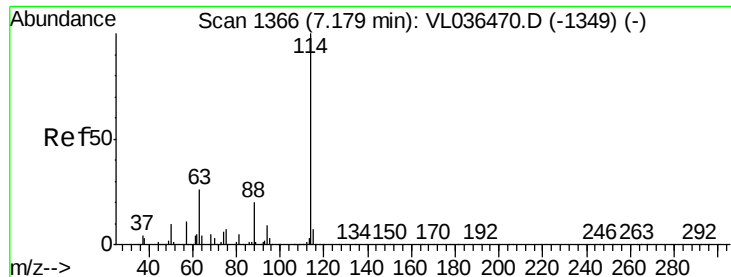
Tot Ion:	43	Resp:	68158
Ion	Ratio	Lower	Upper
43	100		
45	5.4	7.9	11.9#
61	1.5	7.4	11.2#
70	3.2	5.1	7.7#



#26
Hexane
Concen: 0.533 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036541.D
Acq: 29 Mar 2021 16:05

Tgt Ion:	57	Resp:	87165
Ion	Ratio	Lower	Upper
57	100		
41	115.2	77.2	115.8
43	91.3	173.8	260.6#
56	66.0	43.8	65.6#

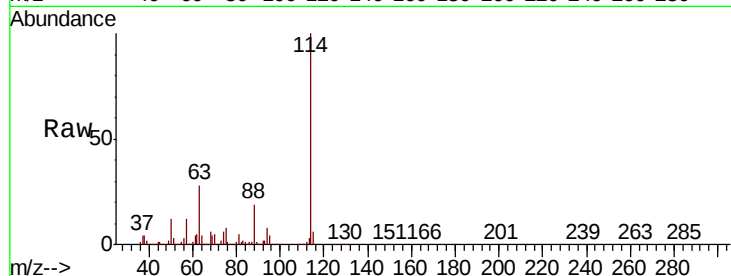




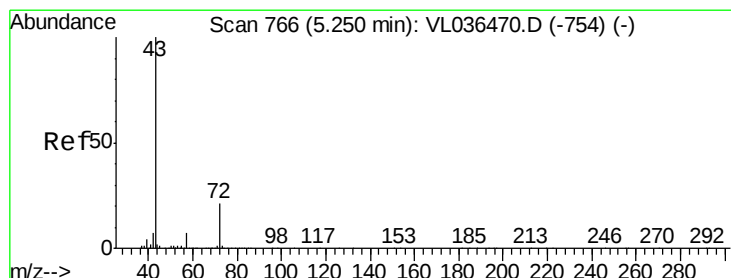
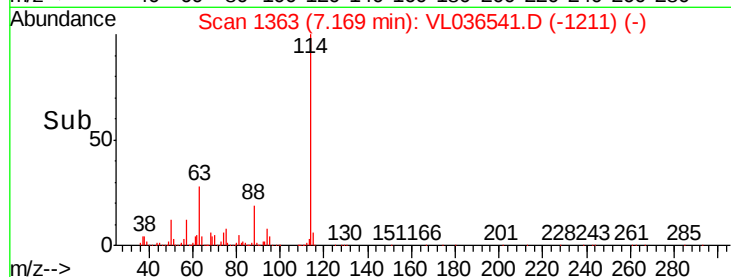
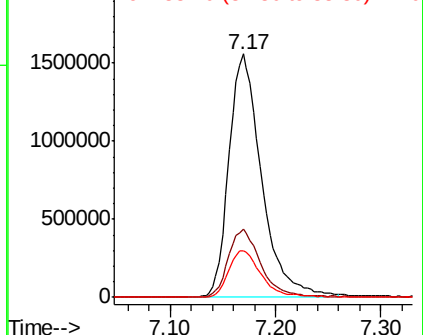
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL036541.D
 Acq: 29 Mar 2021 16:05

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3356715
 Ion Ratio Lower Upper
 114 100
 63 28.4 22.4 33.6
 88 19.4 15.4 23.0

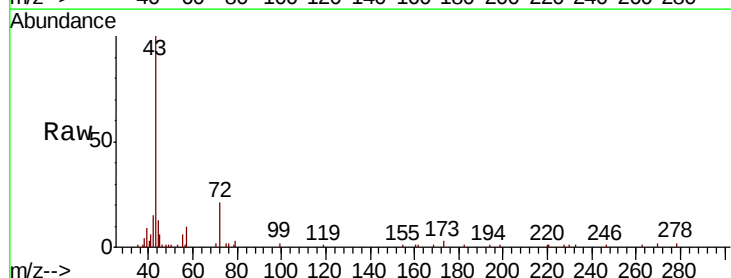


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

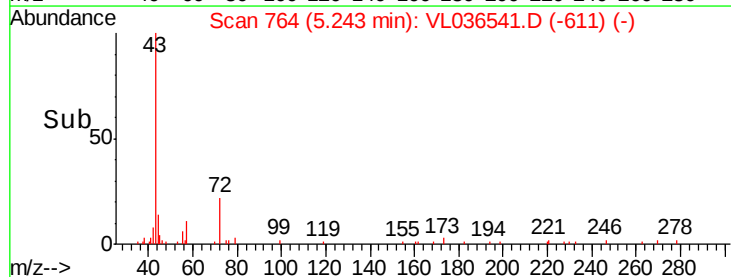
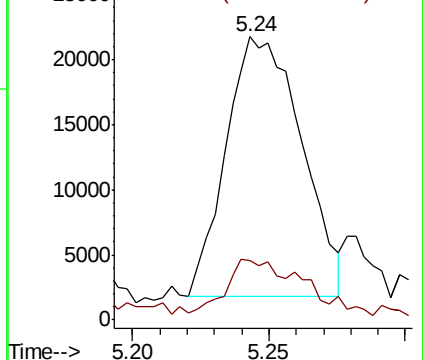


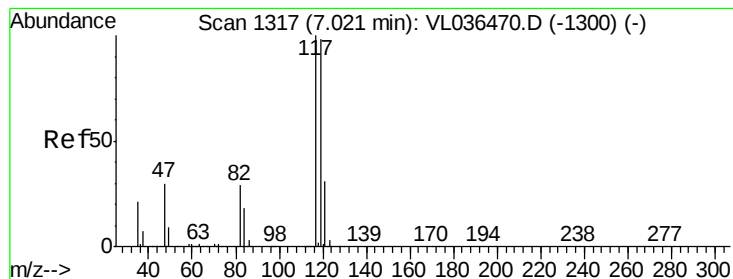
#34
 2-Butanone
 Concen: 0.233 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL036541.D
 Acq: 29 Mar 2021 16:05

Tgt Ion: 43 Resp: 38248
 Ion Ratio Lower Upper
 43 100
 72 31.0 17.0 25.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.024 ppbv

RT: 7.00 min Scan# 1311

Delta R.T. -0.02 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

Instrument :

MSVOA_L

ClientSampled :

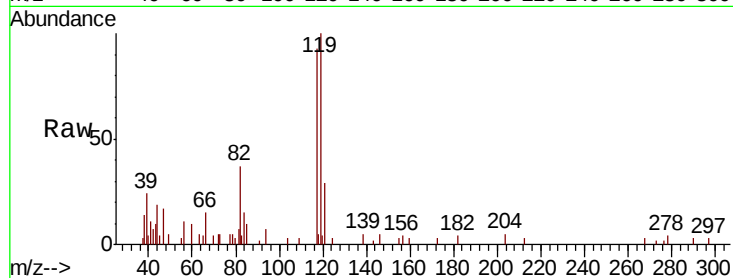
Tot Ion:117 Resp: 6169

Ion Ratio Lower Upper

117 100

119 102.9 78.2 117.2

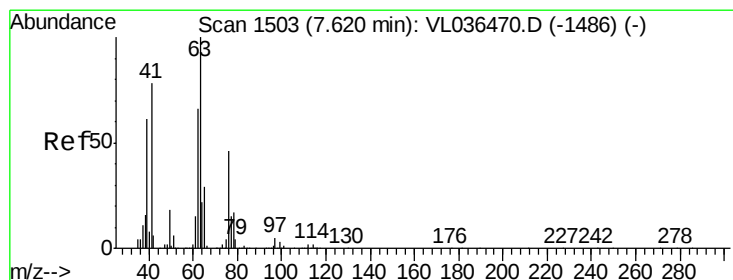
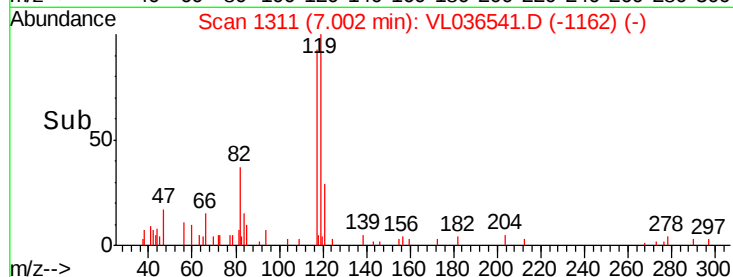
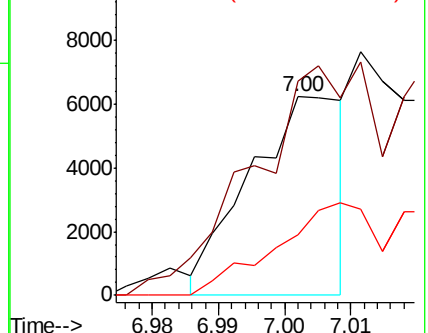
121 34.2 24.5 36.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#39

1,2-Dichloropropane

Concen: 7.379 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

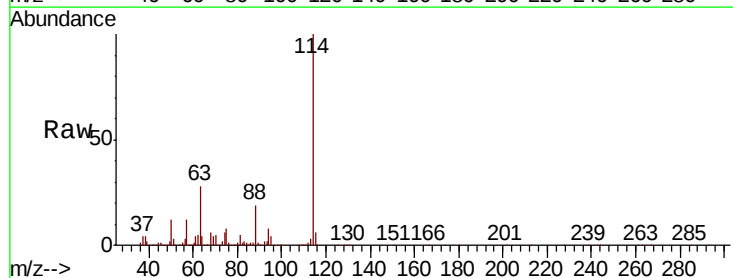
Tgt Ion: 63 Resp: 926688

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

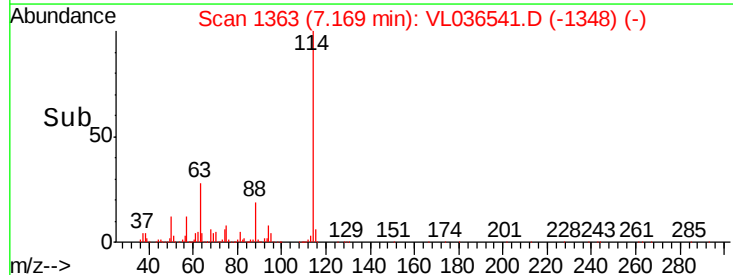
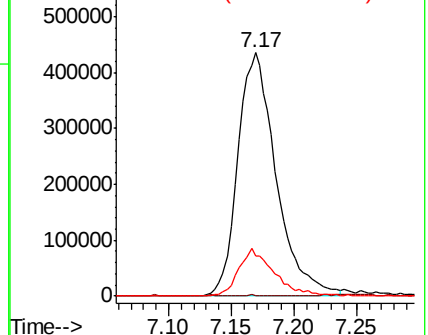
62 16.6 52.8 79.2#

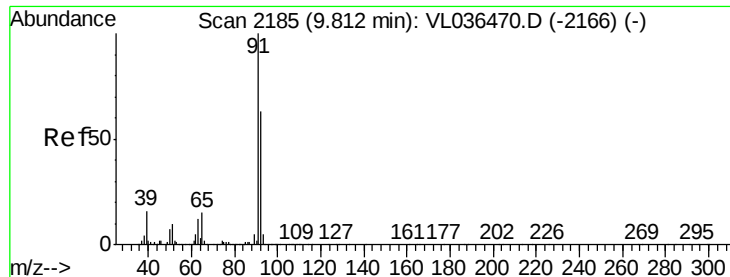


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.056 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.02 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

Instrument :

MSVOA_L

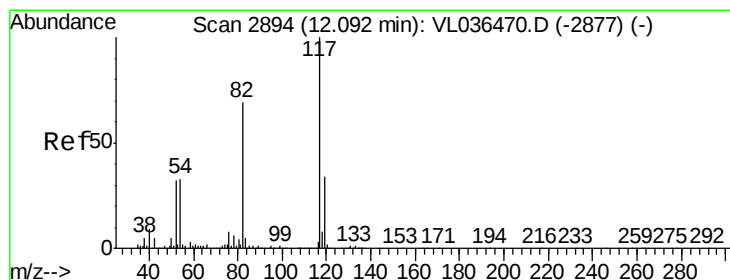
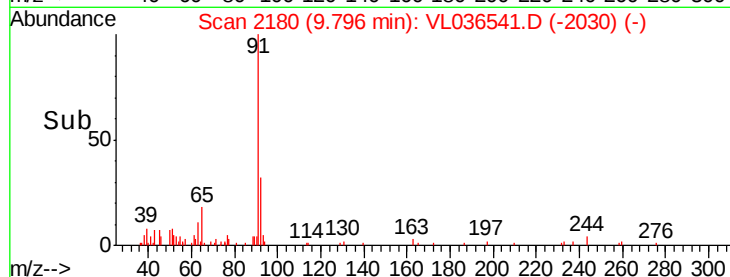
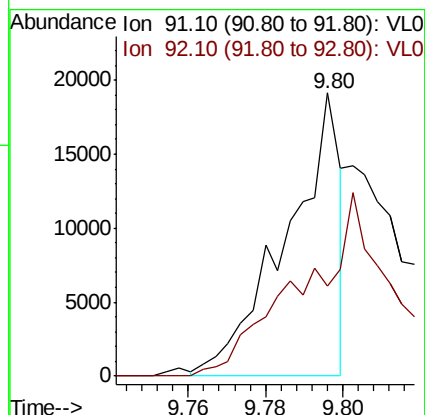
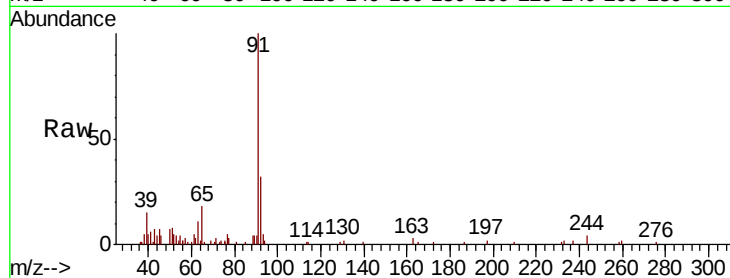
ClientSampleId :

Tot Ion: 91 Resp: 18494

Ion Ratio Lower Upper

91 100

92 0.0 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

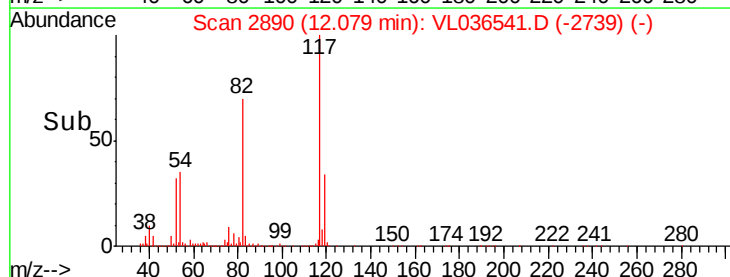
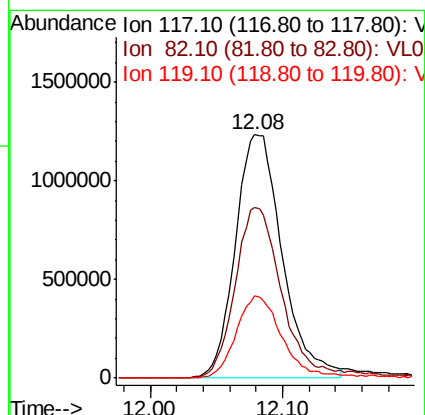
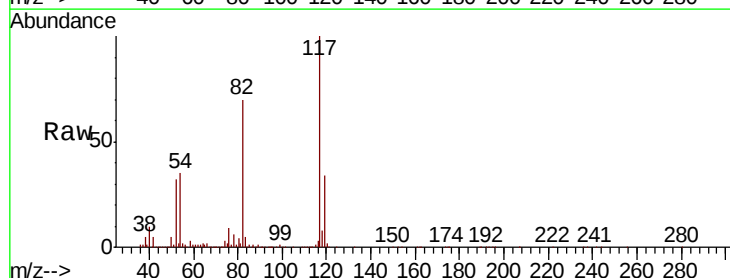
Tgt Ion: 117 Resp: 3021258

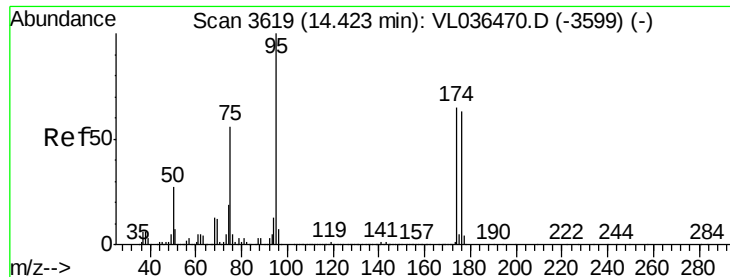
Ion Ratio Lower Upper

117 100

82 72.9 57.4 86.0

119 34.5 47.4 71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.733 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL036541.D

Acq: 29 Mar 2021 16:05

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2343739

Ion Ratio Lower Upper

95 100

174 66.8 51.0 76.6

175 5.0 3.9 5.9

