

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036888.D
 Acq On : 28 Apr 2021 20:35
 Operator : SY/AP
 Sample : M2172-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 29 03:11:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1478884	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	3447537	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	3237316	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2479280	9.54	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.40%

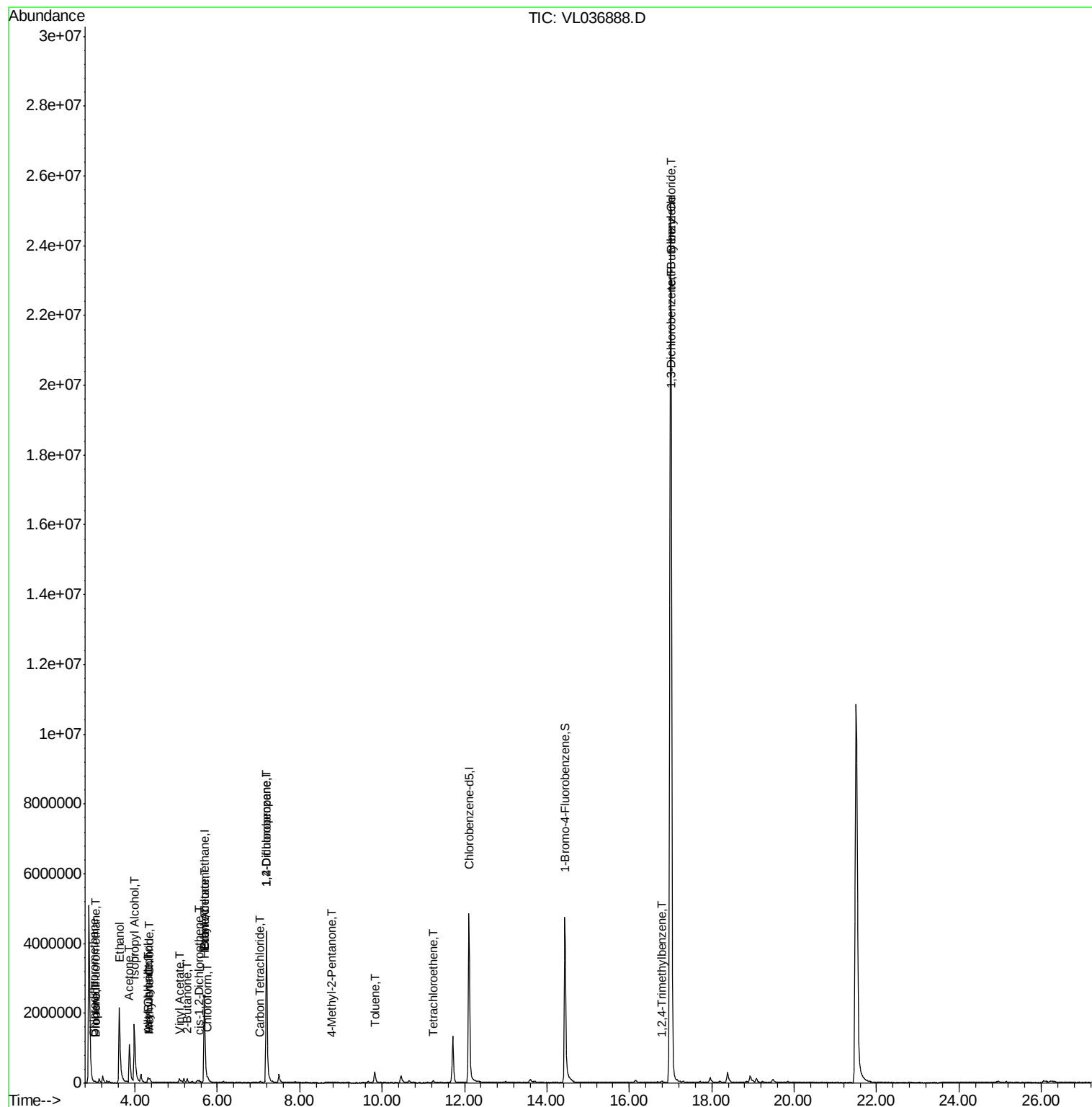
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	9198	0.039	ppbv 97
3) Chlorodifluoromethane	3.00	51	19938	0.074	ppbv 92
9) Propene	3.05	41	2803	0.034	ppbv 84
13) Ethanol	3.62	45	3139873	299.941	ppbv 91
15) Acetone	3.86	43	1439911	10.330	ppbv 99
17) tert-Butyl alcohol	4.32	59	114570	1.013	ppbv # 83
19) Isopropyl Alcohol	3.99	45	2317384	33.554	ppbv # 97
20) Methylene Chloride	4.36	84	22793	0.342	ppbv # 77
21) Allyl Chloride	4.32	41	16822	0.162	ppbv # 17
23) Vinyl Acetate	5.08	43	109646	0.578	ppbv # 91
25) Ethyl Acetate	5.70	43	38743	0.114	ppbv # 81
26) Hexane	5.70	57	10487	0.066	ppbv # 1
29) Chloroform	5.76	83	64416	0.259	ppbv 93
31) cis-1,2-Dichloroethene	5.56	61	8479	0.059	ppbv 96
34) 2-Butanone	5.26	43	148456	0.983	ppbv 98
35) Carbon Tetrachloride	7.04	117	18968	0.081	ppbv 91
39) 1,2-Dichloropropane	7.20	63	913594	7.851	ppbv # 23
50) 4-Methyl-2-Pentanone	8.77	43	6840	0.033	ppbv # 75
52) Tetrachloroethene	11.24	164	6197	0.063	ppbv 92
53) Toluene	9.83	91	49815	0.164	ppbv 87
65) tert-Butylbenzene	17.00	119	194834	0.456	ppbv # 30
66) Benzyl Chloride	17.02	91	1476	0.035	ppbv # 66
74) 1,2,4-Trimethylbenzene	16.79	105	12223	0.031	ppbv # 85
75) 1,3-Dichlorobenzene	17.03	146	42541	0.183	ppbv # 23

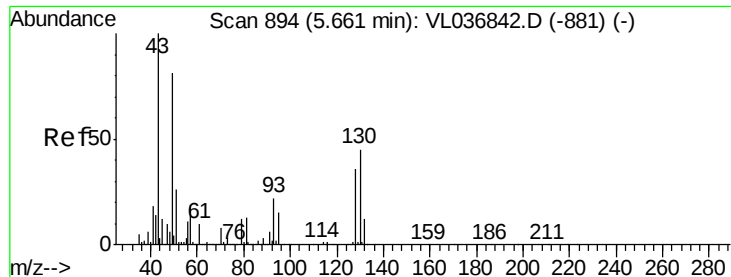
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL042821\
Data File : VL036888.D
Acq On : 28 Apr 2021 20:35
Operator : SY/AP
Sample : M2172-03DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Apr 29 03:11:19 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
QLast Update : Tue Apr 27 16:56:35 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL036888.D

Acq: 28 Apr 2021 20:35

Instrument :

MSVOA_L

ClientSampleId :

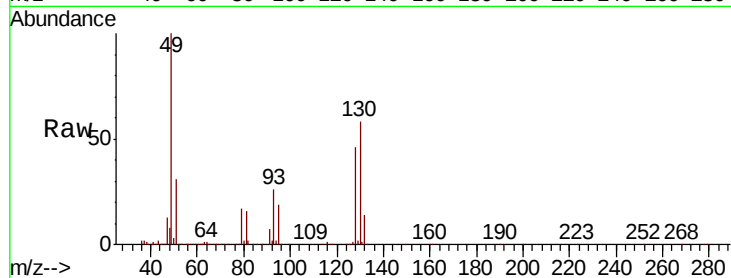
Tot Ion: 49 Resp: 1478884

Ion Ratio Lower Upper

49 100

128 46.3 24.4 73.2

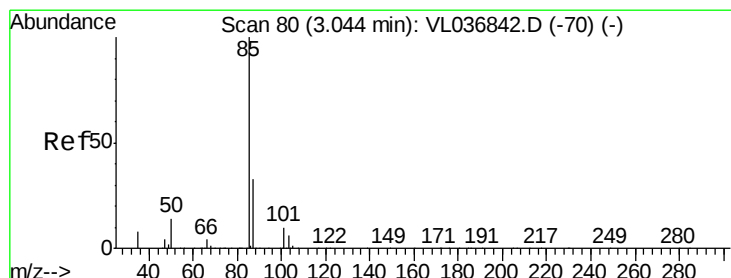
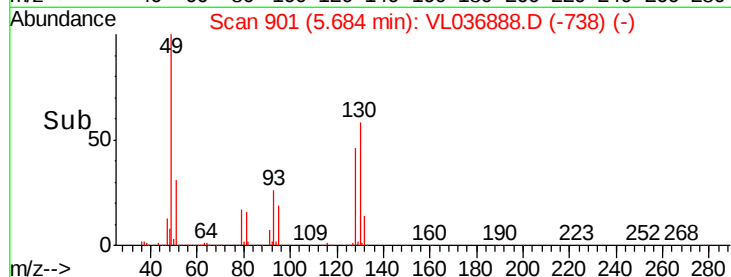
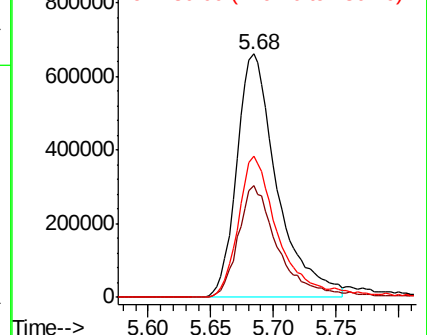
130 59.7 30.3 90.8



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



#2

Dichlorodifluoromethane

Concen: 0.039 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL036888.D

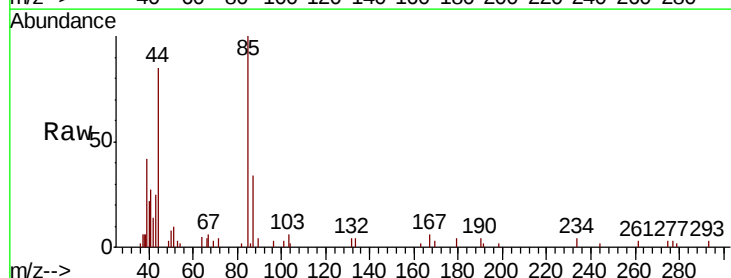
Acq: 28 Apr 2021 20:35

Tgt Ion: 85 Resp: 9198

Ion Ratio Lower Upper

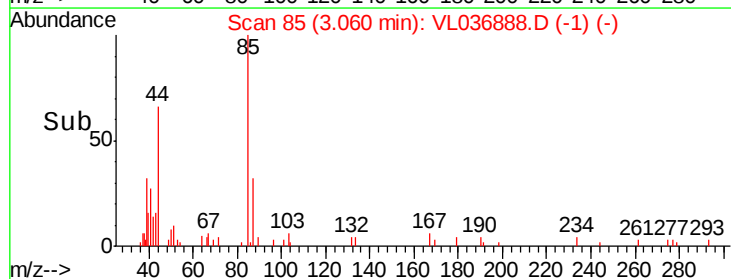
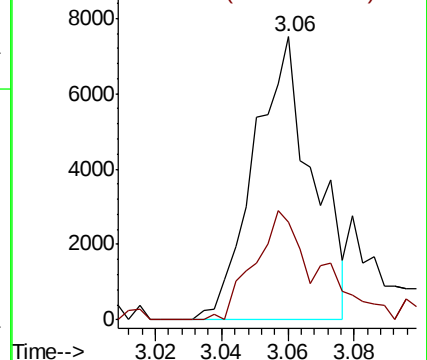
85 100

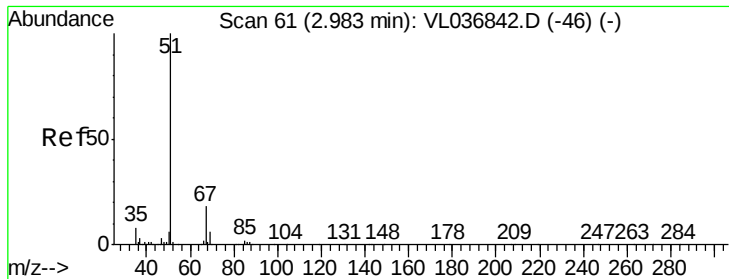
87 34.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.074 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL036888.D

Acq: 28 Apr 2021 20:35

Instrument :

MSVOA_L

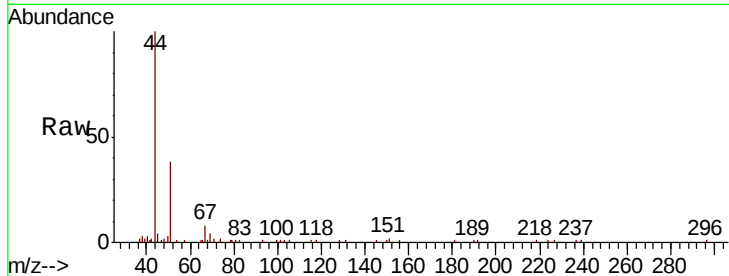
ClientSampleId :

Tot Ion: 51 Resp: 19938

Ion Ratio Lower Upper

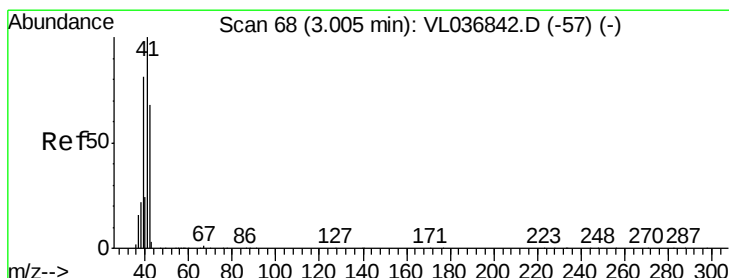
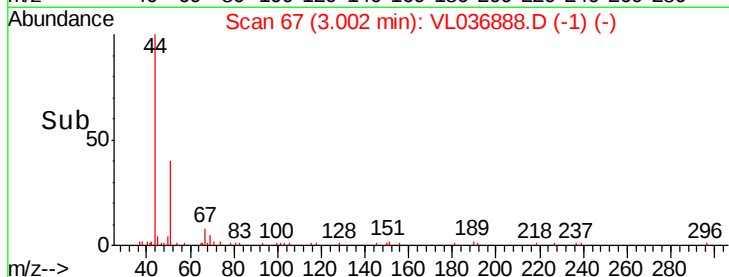
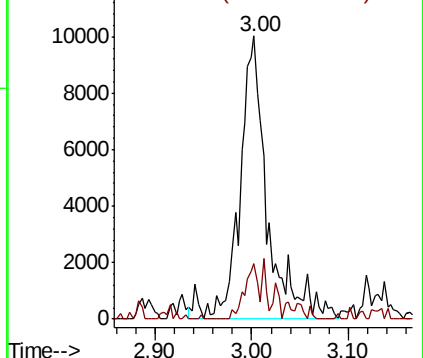
51 100

67 15.1 14.8 22.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.034 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.04 min

Lab File: VL036888.D

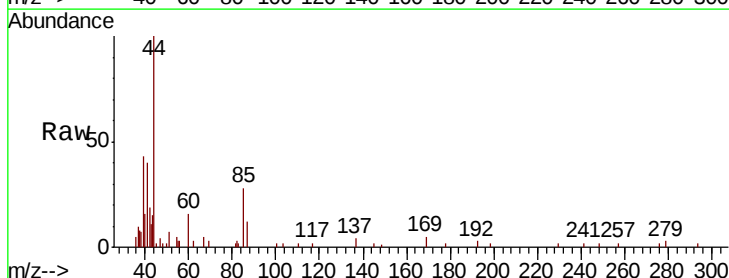
Acq: 28 Apr 2021 20:35

Tgt Ion: 41 Resp: 2803

Ion Ratio Lower Upper

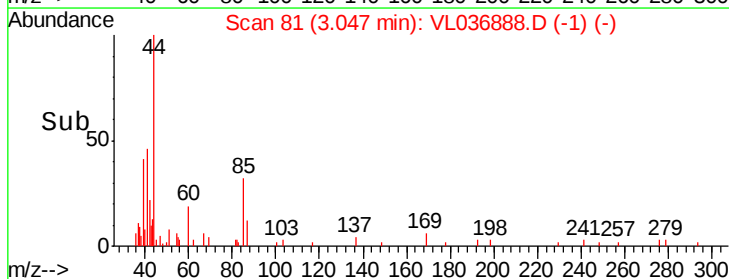
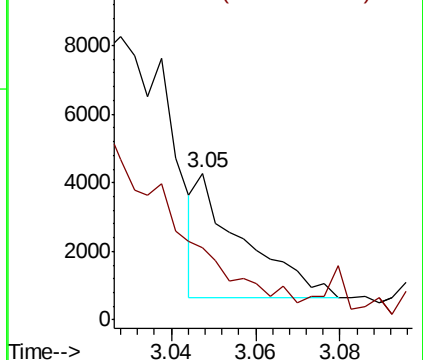
41 100

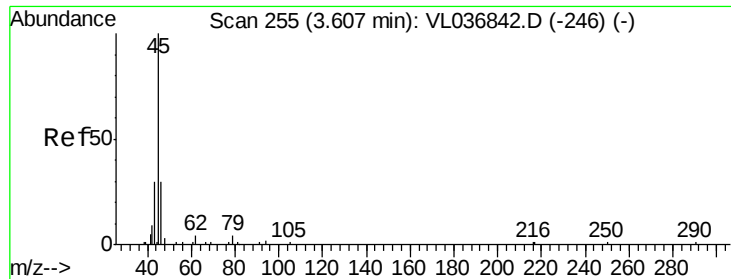
42 56.9 56.0 84.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

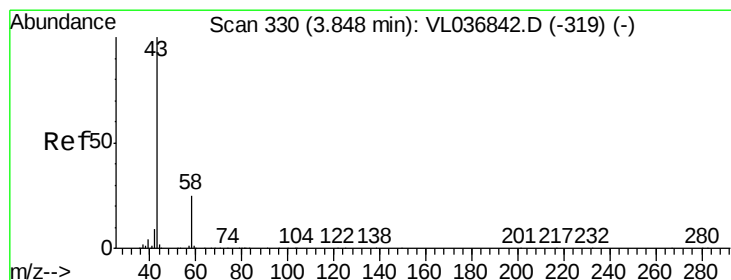
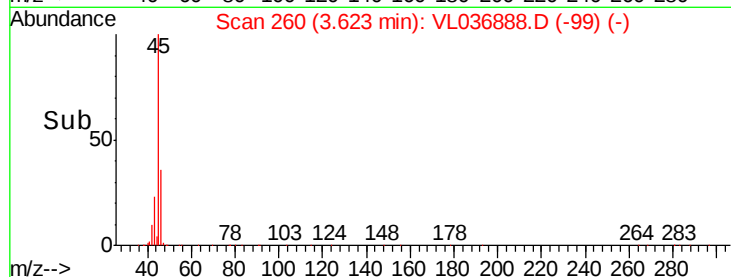
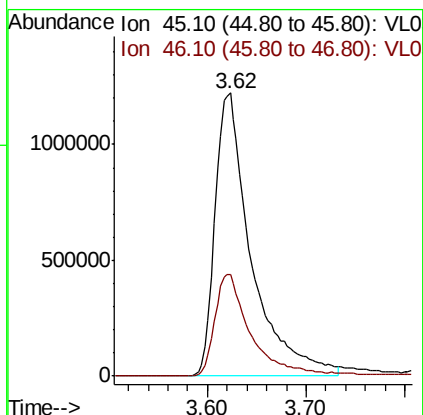
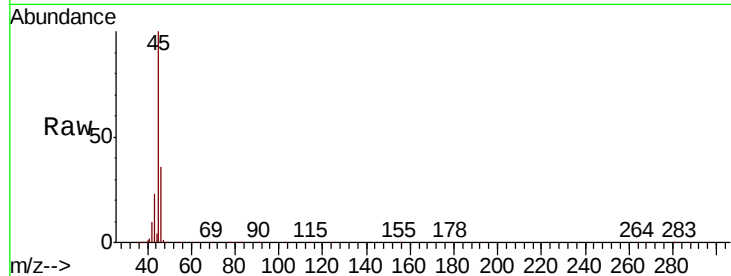




#13
Ethanol
Concen: 299.941 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.02 min
Lab File: VL036888.D
Acq: 28 Apr 2021 20:35

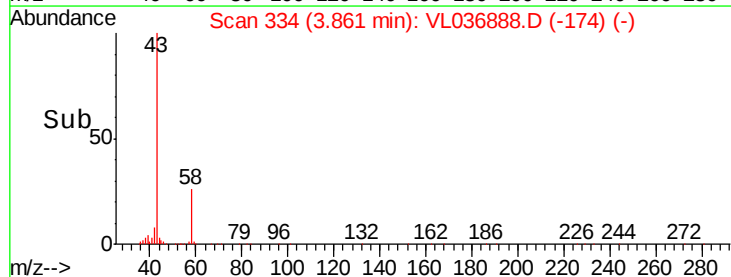
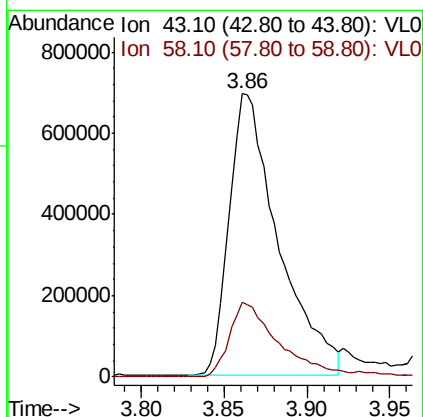
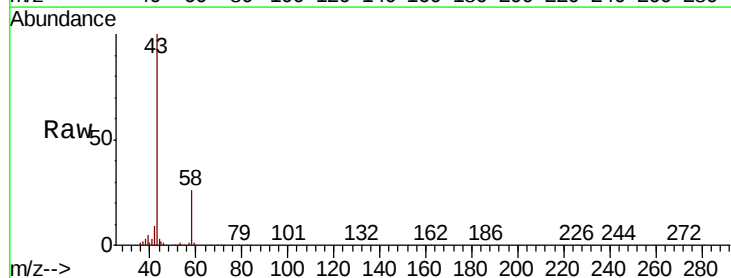
Instrument :
MSVOA_L
ClientSampleId :

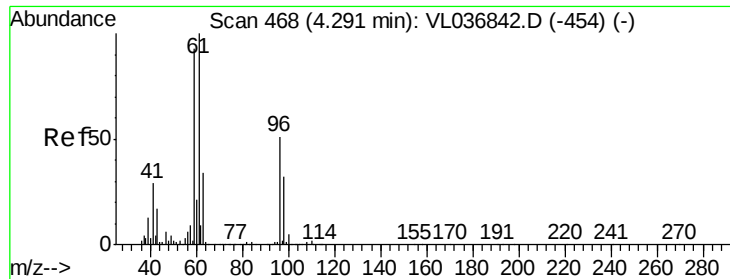
Tot Ion: 45 Resp: 3139873
Ion Ratio Lower Upper
45 100
46 36.2 16.8 67.4



#15
Acetone
Concen: 10.330 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL036888.D
Acq: 28 Apr 2021 20:35

Tgt Ion: 43 Resp: 1439911
Ion Ratio Lower Upper
43 100
58 27.4 21.7 32.5



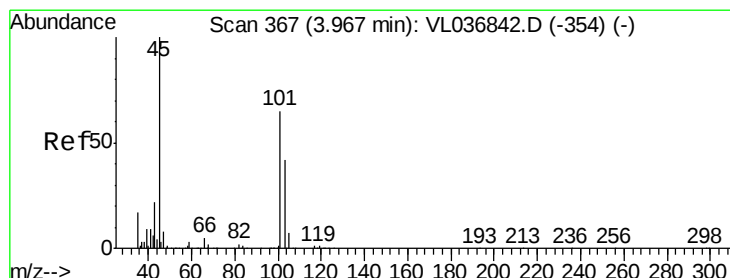
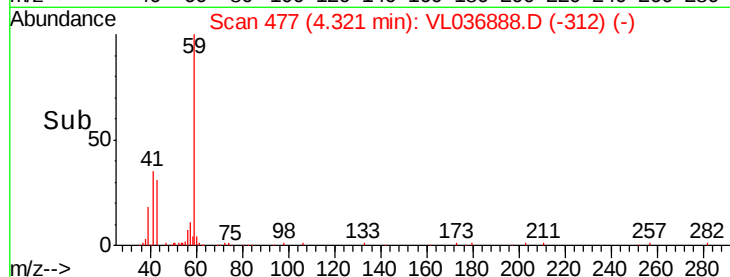
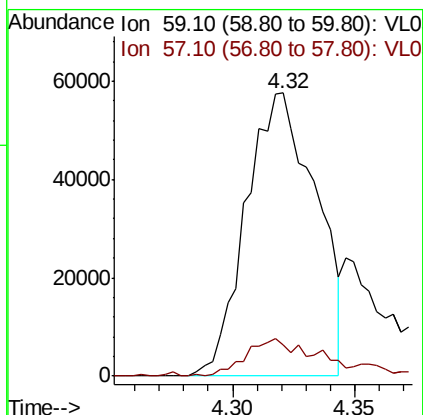
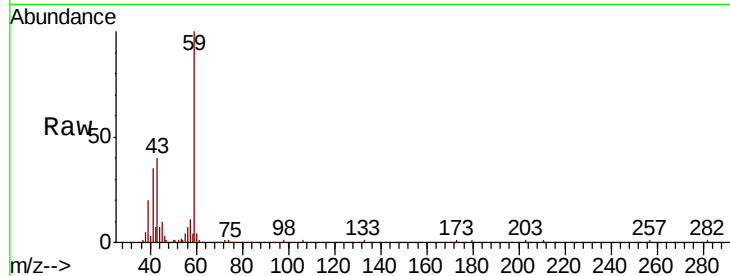


#17

tert-Butyl alcohol
 Concen: 1.013 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. 0.03 min
 Lab File: VL036888.D
 Acq: 28 Apr 2021 20:35

Instrument :
 MSVOA_L
 ClientSampleId :

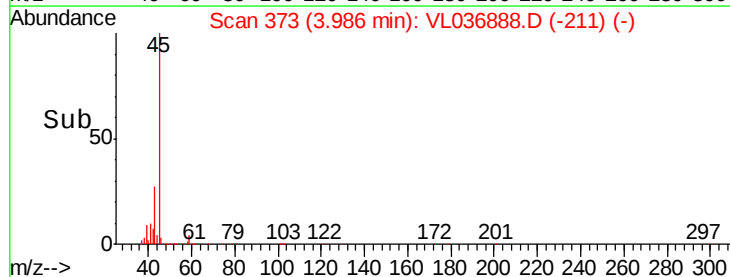
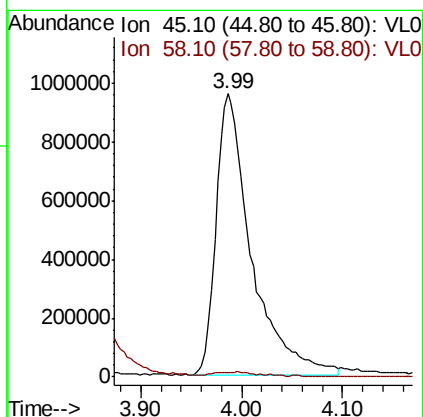
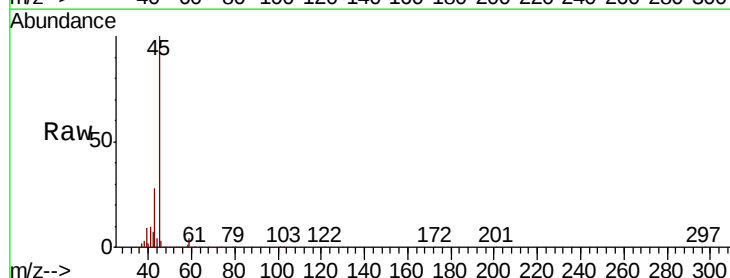
Tot Ion: 59 Resp: 114570
 Ion Ratio Lower Upper
 59 100
 57 16.9 8.3 12.5#

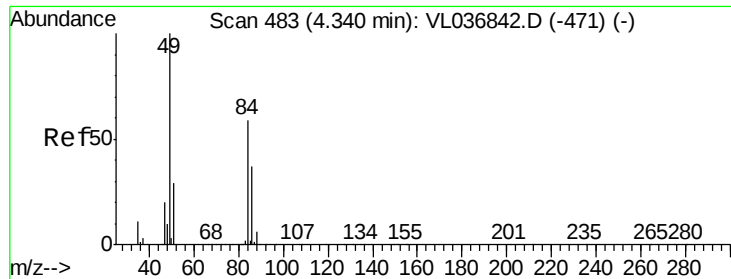


#19

Isopropyl Alcohol
 Concen: 33.554 ppbv
 RT: 3.99 min Scan# 373
 Delta R.T. 0.02 min
 Lab File: VL036888.D
 Acq: 28 Apr 2021 20:35

Tgt Ion: 45 Resp: 2317384
 Ion Ratio Lower Upper
 45 100
 58 2.5 2.8 4.2#

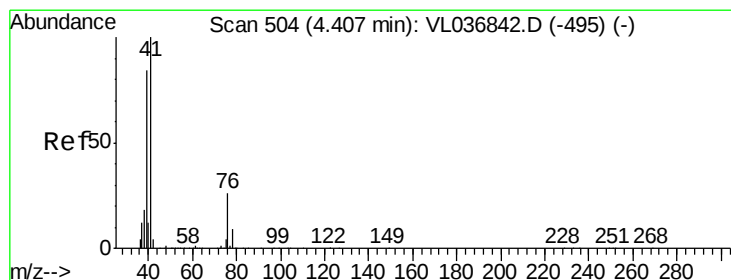
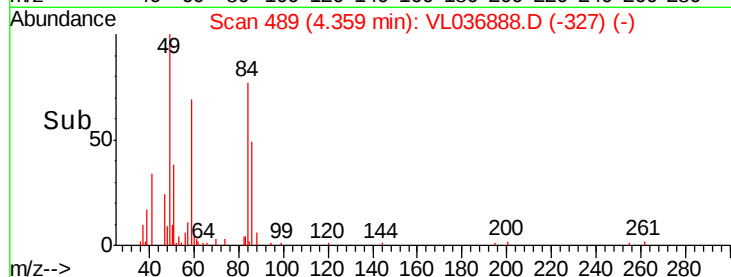
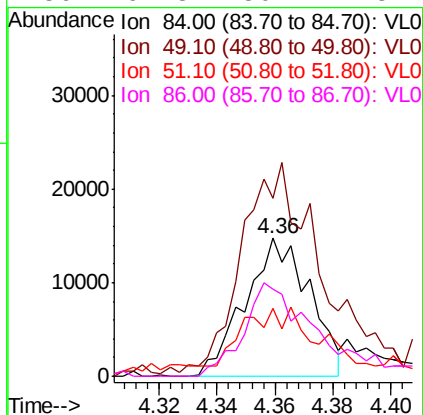
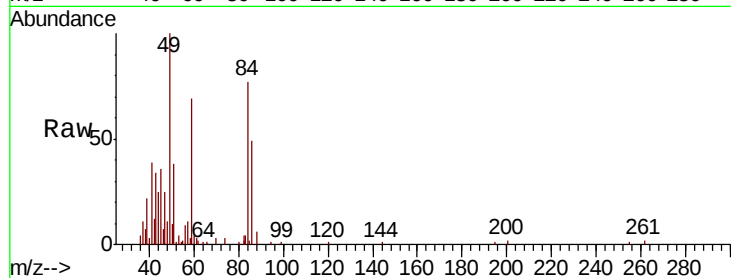




#20
Methylene Chloride
Concen: 0.342 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.02 min
Lab File: VL036888.D
Acq: 28 Apr 2021 20:35

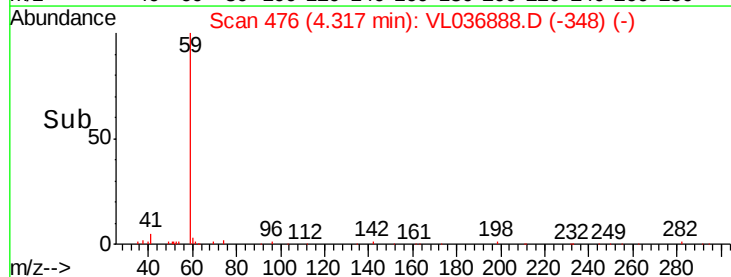
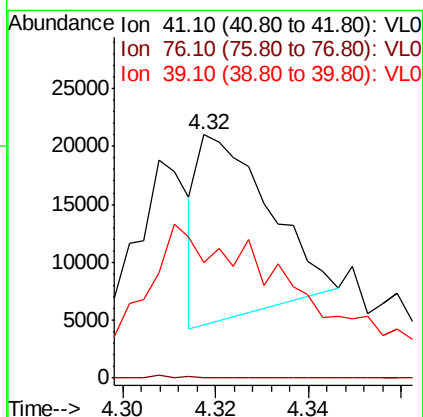
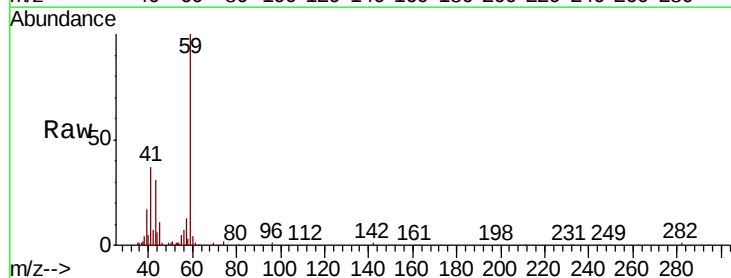
Instrument :
MSVOA_L
ClientSampleId :

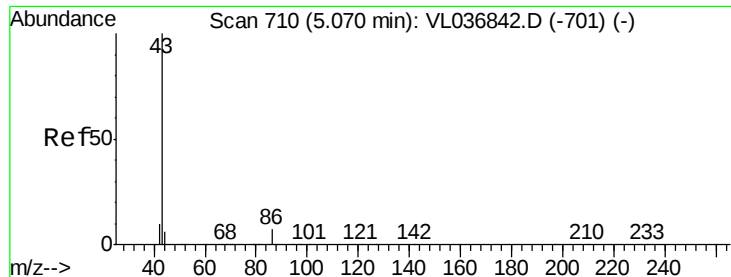
Tot Ion:	84	Resp:	22793
Ion	Ratio	Lower	Upper
84	100		
49	121.2	135.4	203.0#
51	44.0	39.3	58.9
86	62.8	50.2	75.2



#21
Allyl Chloride
Concen: 0.162 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.09 min
Lab File: VL036888.D
Acq: 28 Apr 2021 20:35

Tgt Ion:	41	Resp:	16822
Ion	Ratio	Lower	Upper
41	100		
76	0.2	22.4	33.6#
39	0.0	68.4	102.6#

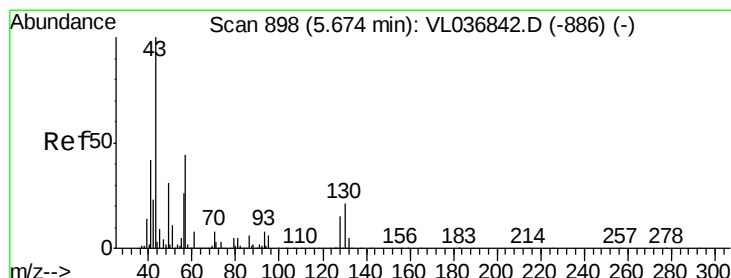
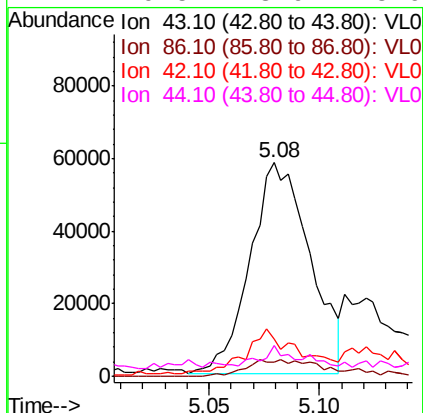
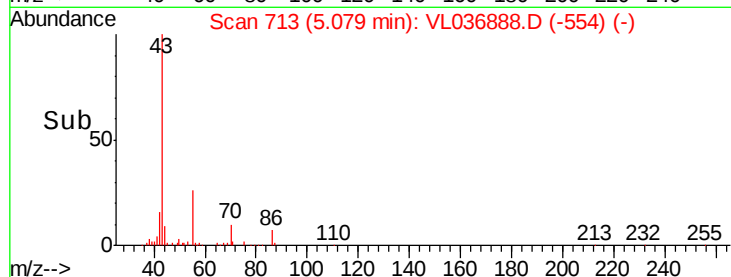
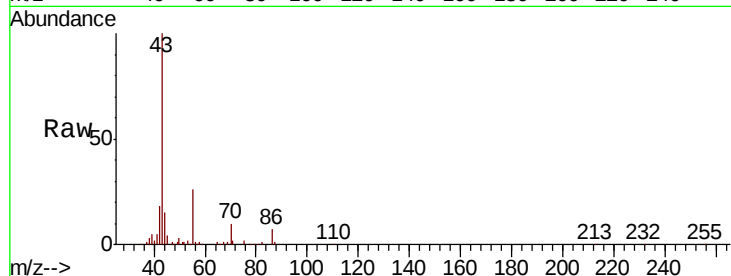




#23
 Vinyl Acetate
 Concen: 0.578 ppbv
 RT: 5.08 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VL036888.D
 Acq: 28 Apr 2021 20:35

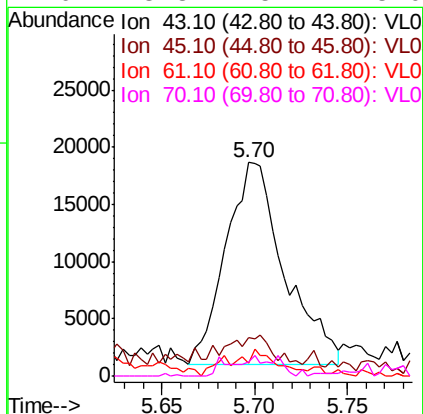
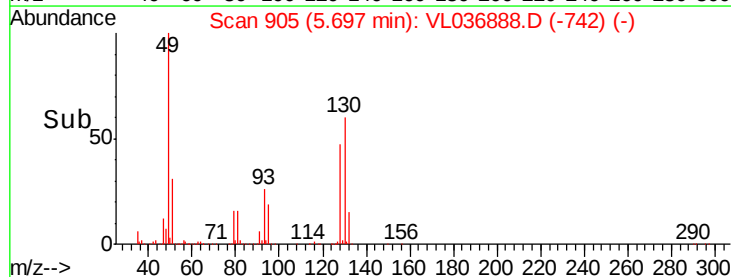
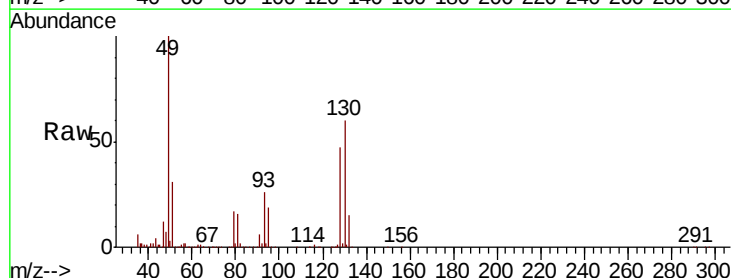
Instrument :
 MSVOA_L
 ClientSampleId :

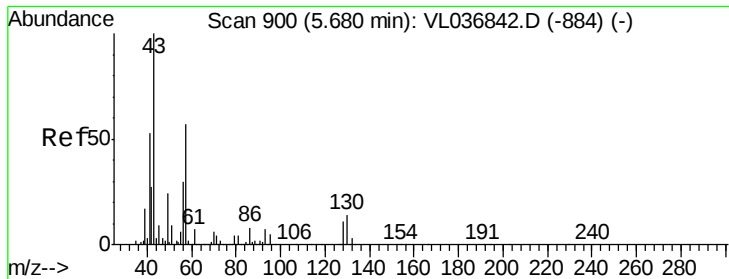
Tot Ion:	43	Resp:	109646
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.3	7.9
42	15.6	8.7	13.1#
44	9.5	3.9	5.9#



#25
 Ethyl Acetate
 Concen: 0.114 ppbv
 RT: 5.70 min Scan# 905
 Delta R.T. 0.02 min
 Lab File: VL036888.D
 Acq: 28 Apr 2021 20:35

Tgt Ion:	43	Resp:	38743
Ion	Ratio	Lower	Upper
43	100		
45	23.7	7.8	11.8#
61	12.5	7.4	11.0#
70	8.8	5.4	8.0#





#26

Hexane

Concen: 0.066 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.02 min

Lab File: VL036888.D

Acq: 28 Apr 2021 20:35

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 10487

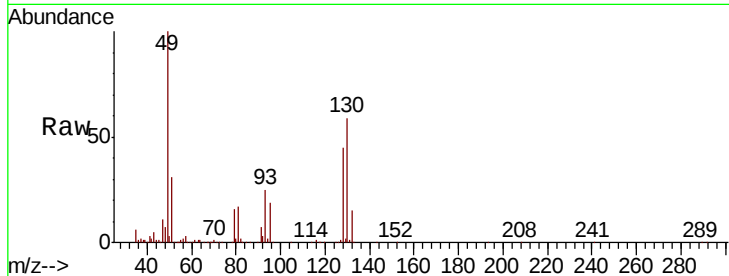
Ion Ratio Lower Upper

57 100

41 286.7 77.7 116.5#

43 449.1 180.5 270.7#

56 141.0 44.6 66.8#

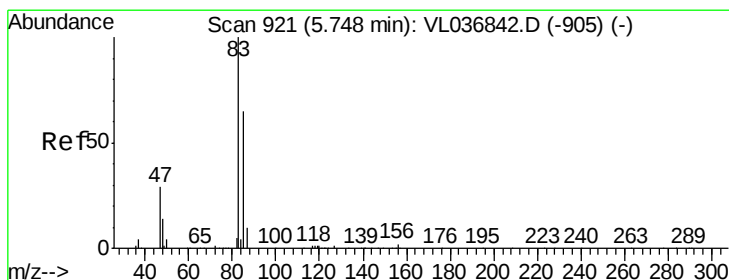
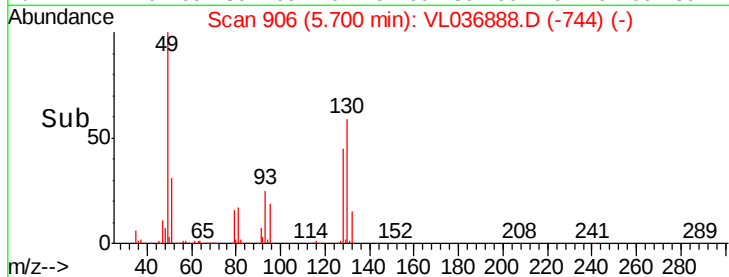
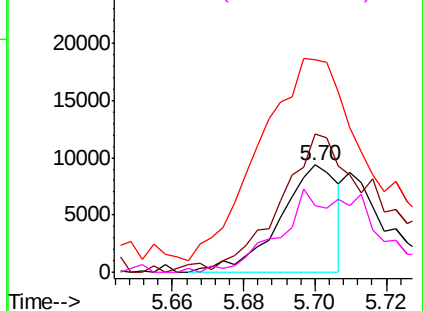


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.259 ppbv

RT: 5.76 min Scan# 926

Delta R.T. 0.02 min

Lab File: VL036888.D

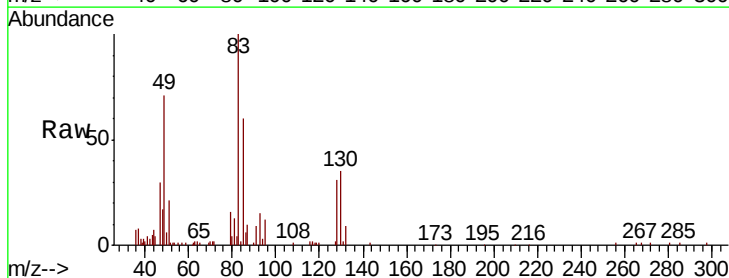
Acq: 28 Apr 2021 20:35

Tgt Ion: 83 Resp: 64416

Ion Ratio Lower Upper

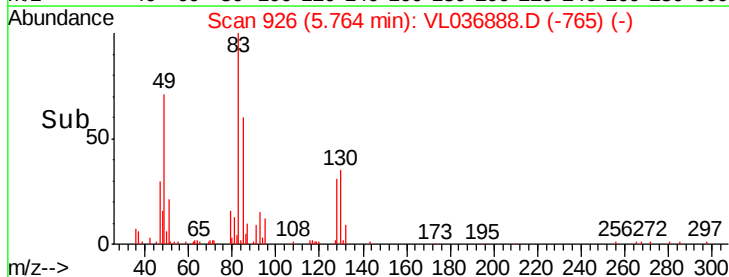
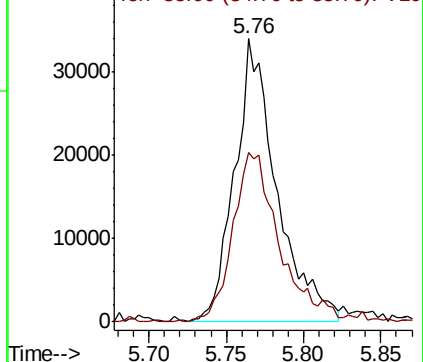
83 100

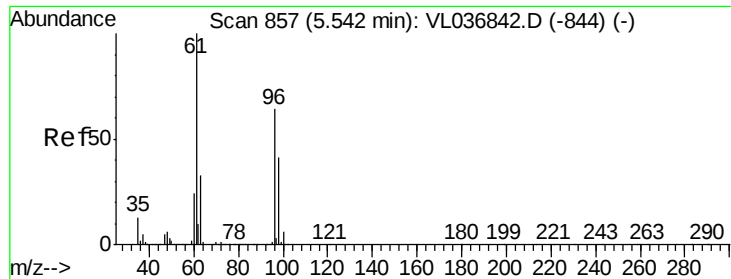
85 59.7 52.2 78.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



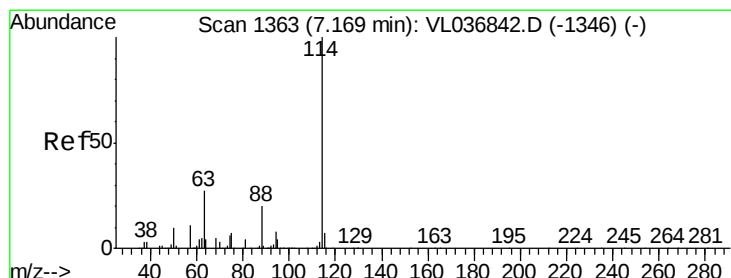
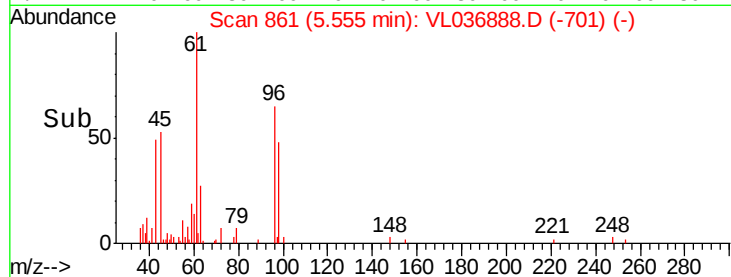
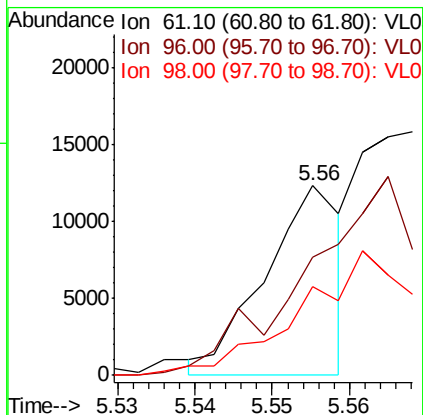
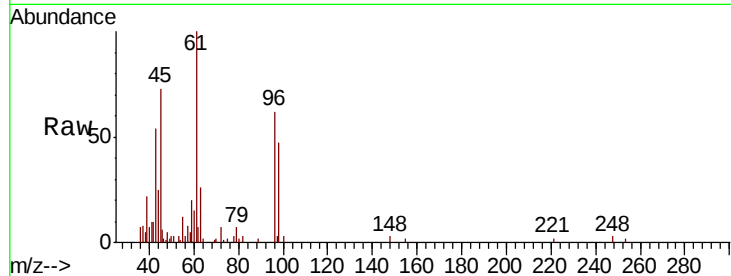


#31

cis-1,2-Dichloroethene
 Concen: 0.059 ppbv
 RT: 5.56 min Scan# 861
 Delta R.T. 0.01 min
 Lab File: VL036888.D
 Acq: 28 Apr 2021 20:35

Instrument :
 MSVOA_L
 ClientSampleId :

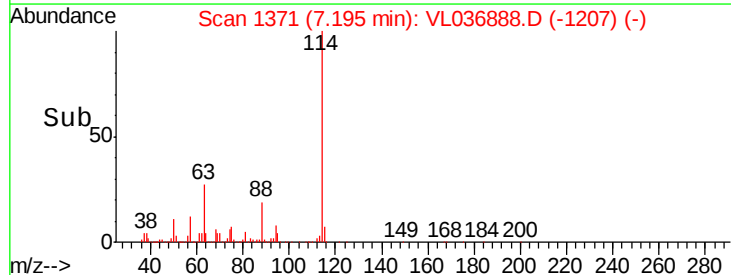
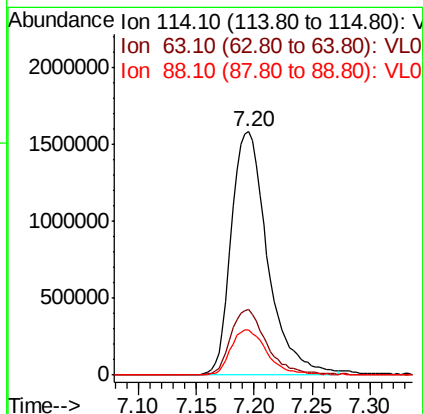
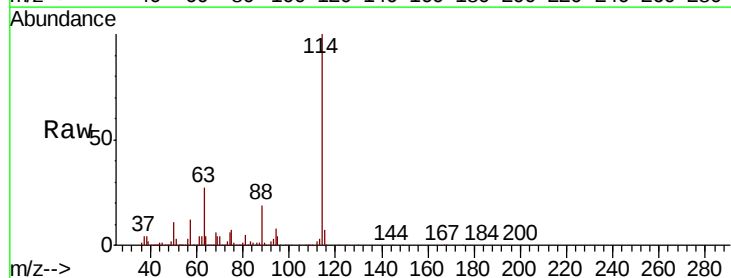
Tot Ion: 61 Resp: 8479
 Ion Ratio Lower Upper
 61 100
 96 62.4 51.0 76.6
 98 45.1 32.7 49.1

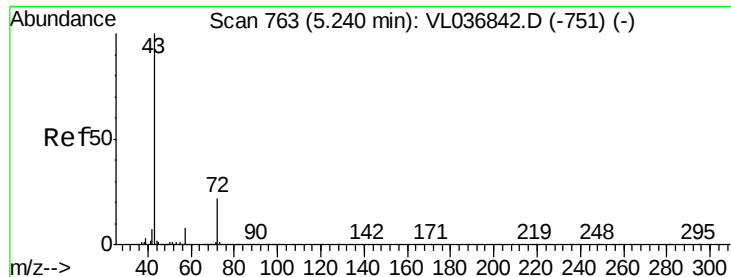


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. 0.03 min
 Lab File: VL036888.D
 Acq: 28 Apr 2021 20:35

Tgt Ion: 114 Resp: 3447537
 Ion Ratio Lower Upper
 114 100
 63 27.2 21.9 32.9
 88 18.9 15.1 22.7

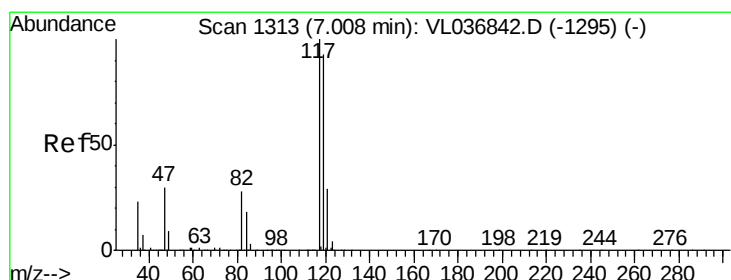
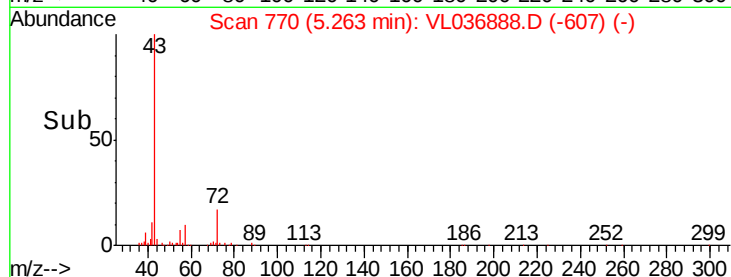
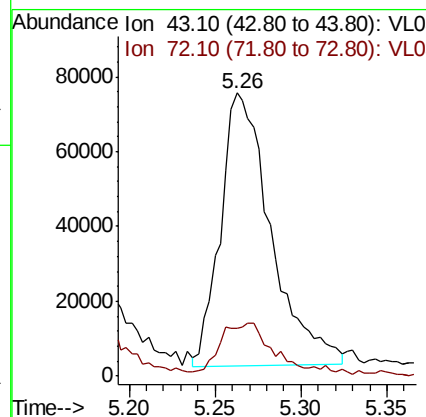
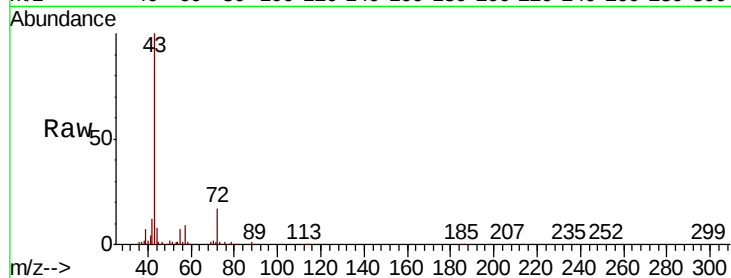




#34
2-Butanone
Concen: 0.983 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.02 min
Lab File: VL036888.D
Acq: 28 Apr 2021 20:35

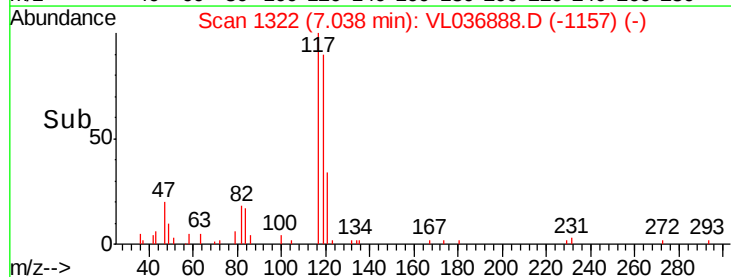
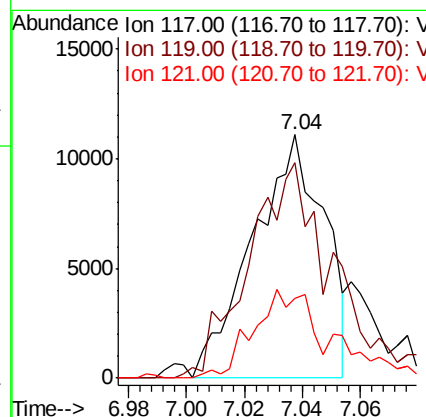
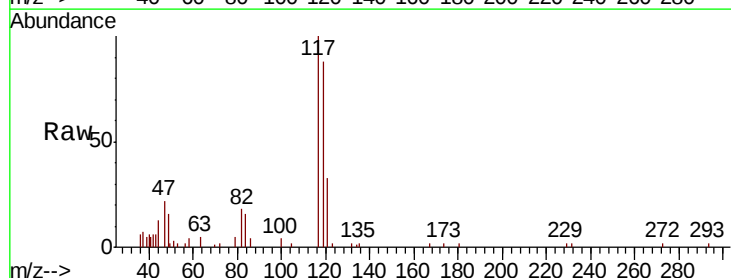
Instrument :
MSVOA_L
ClientSampleId :

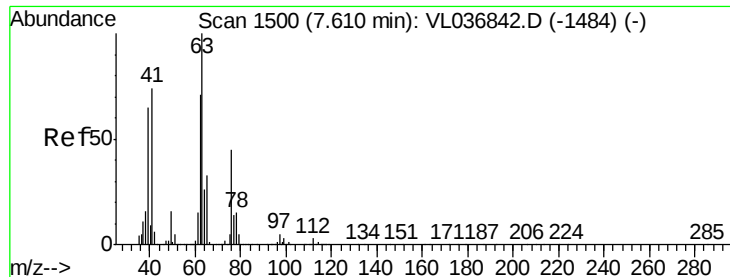
Tot Ion: 43 Resp: 148456
Ion Ratio Lower Upper
43 100
72 23.1 17.6 26.4



#35
Carbon Tetrachloride
Concen: 0.081 ppbv
RT: 7.04 min Scan# 1322
Delta R.T. 0.03 min
Lab File: VL036888.D
Acq: 28 Apr 2021 20:35

Tgt Ion: 117 Resp: 18968
Ion Ratio Lower Upper
117 100
119 83.9 74.6 111.8
121 32.5 23.3 34.9

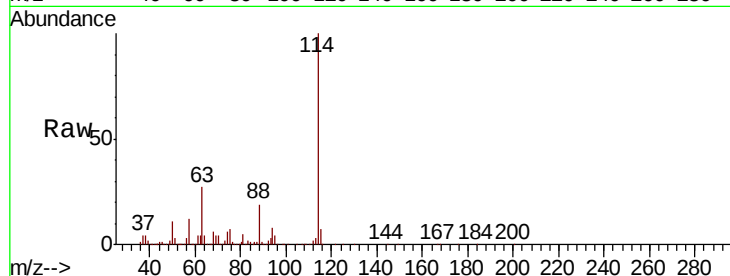




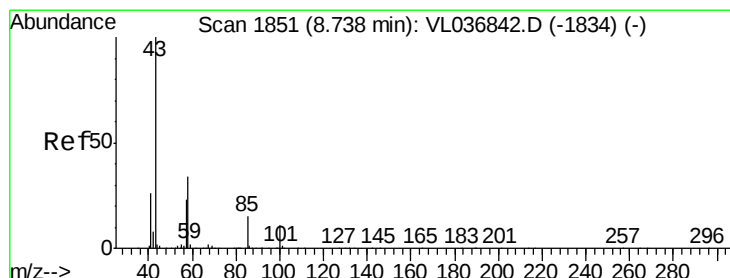
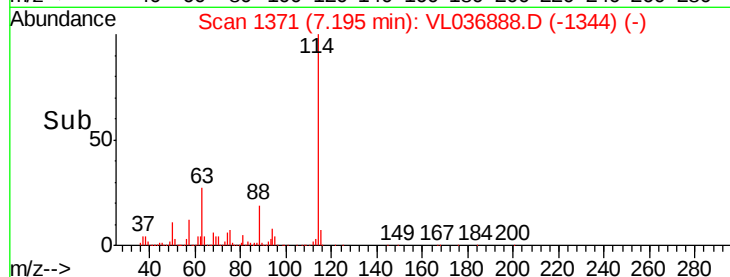
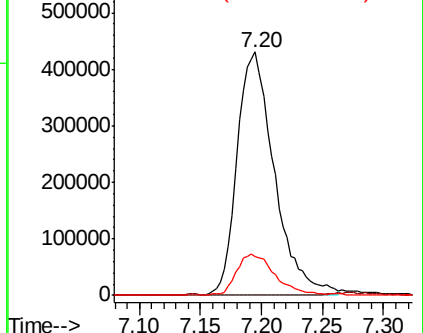
#39
 1,2-Dichloropropane
 Concen: 7.851 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. -0.41 min
 Lab File: VL036888.D
 Acq: 28 Apr 2021 20:35

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion	63	Resp	913594
Ion Ratio	Lower	Upper	
63	100		
41	0.1	59.1	88.7#
62	16.0	56.9	85.3#

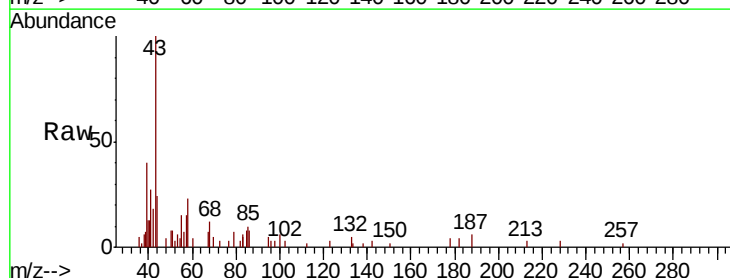


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

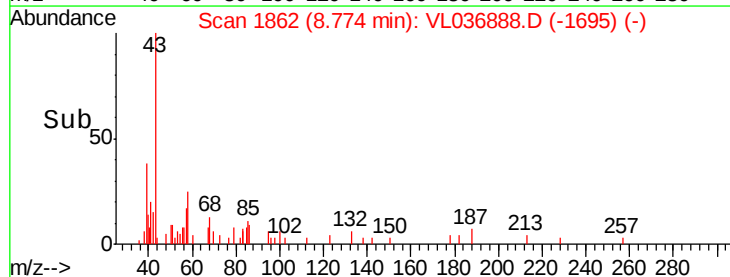
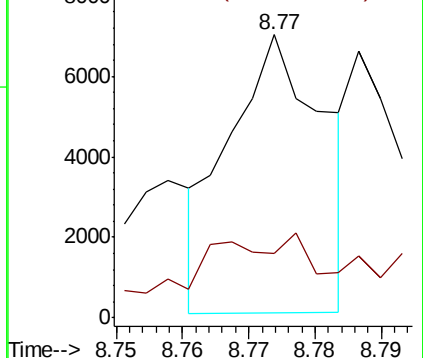


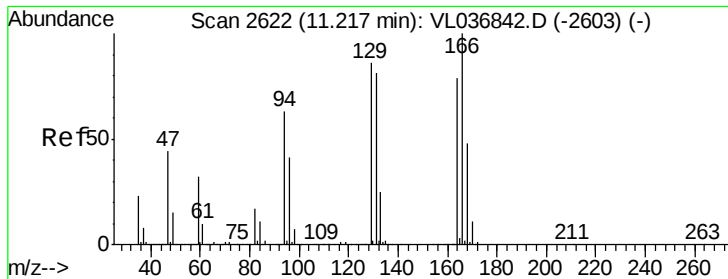
#50
 4-Methyl-2-Pentanone
 Concen: 0.033 ppbv
 RT: 8.77 min Scan# 1862
 Delta R.T. 0.04 min
 Lab File: VL036888.D
 Acq: 28 Apr 2021 20:35

Tgt Ion	43	Resp	6840
Ion Ratio	Lower	Upper	
43	100		
58	49.0	27.8	41.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0





#52

Tetrachloroethene

Concen: 0.063 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. 0.02 min

Lab File: VL036888.D

Acq: 28 Apr 2021 20:35

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 6197

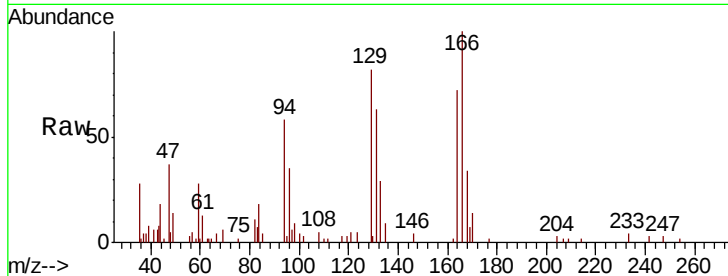
Ion Ratio Lower Upper

164 100

166 134.0 100.9 151.3

129 109.3 87.0 130.4

131 83.7 81.7 122.5

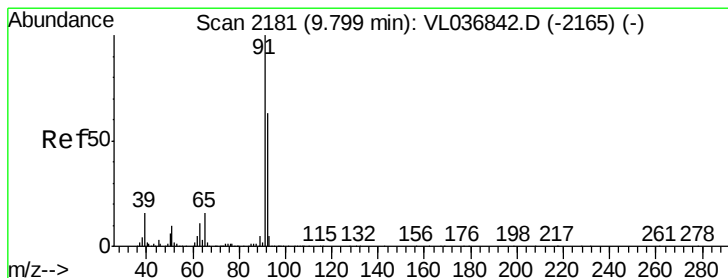
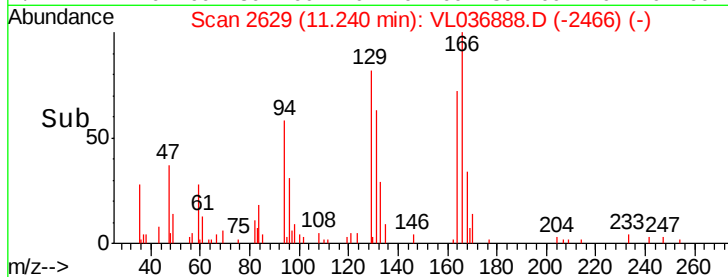
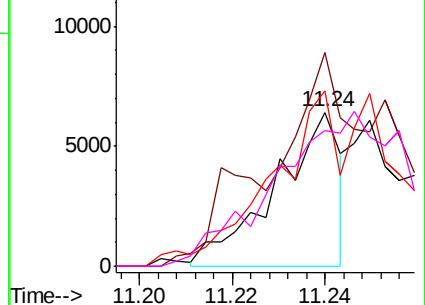


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.164 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.03 min

Lab File: VL036888.D

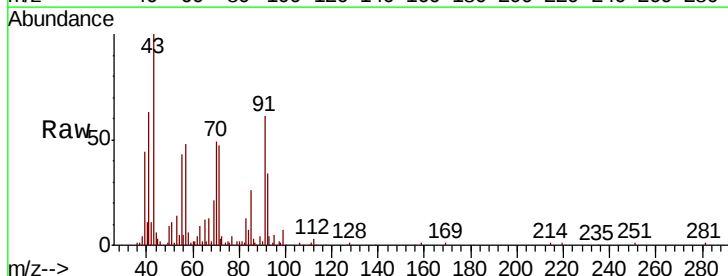
Acq: 28 Apr 2021 20:35

Tgt Ion: 91 Resp: 49815

Ion Ratio Lower Upper

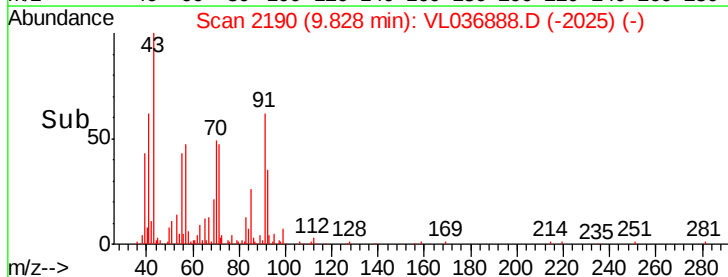
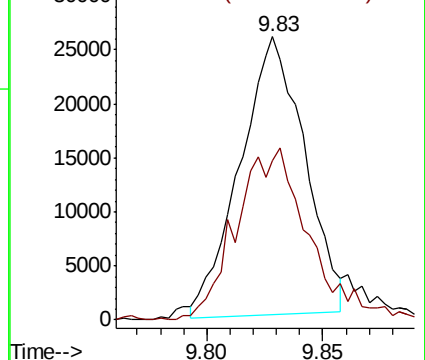
91 100

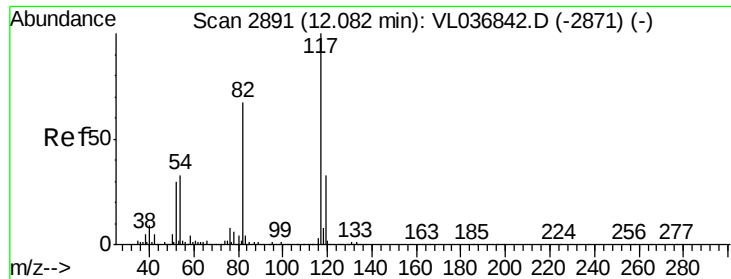
92 70.8 49.0 73.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

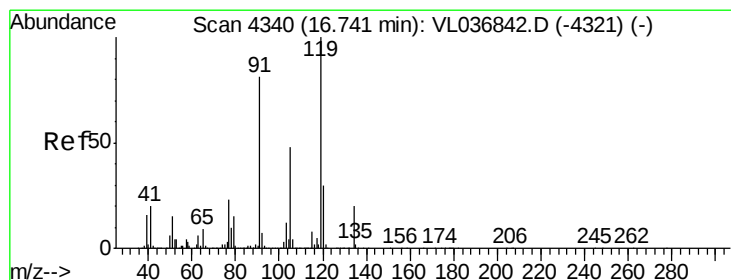
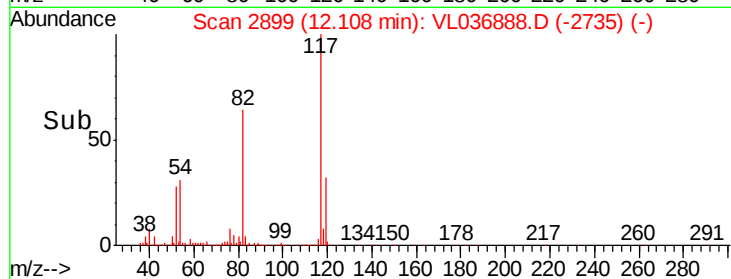
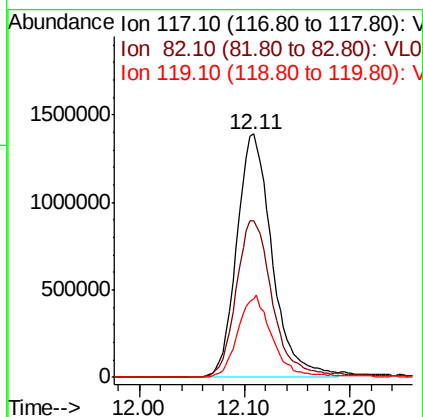
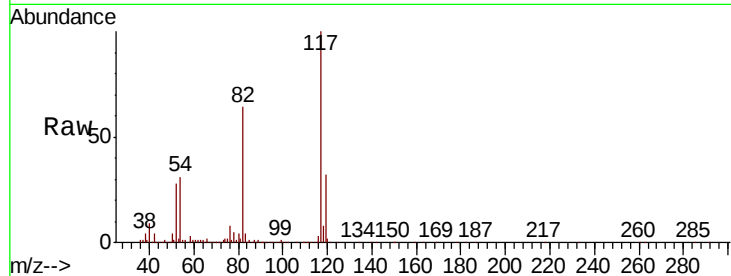




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. 0.03 min
Lab File: VL036888.D
Acq: 28 Apr 2021 20:35

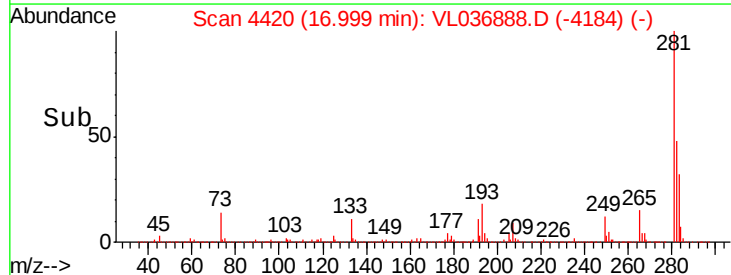
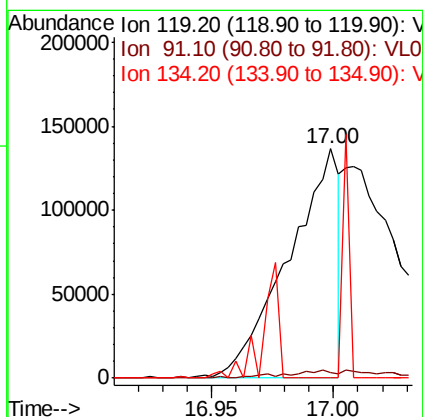
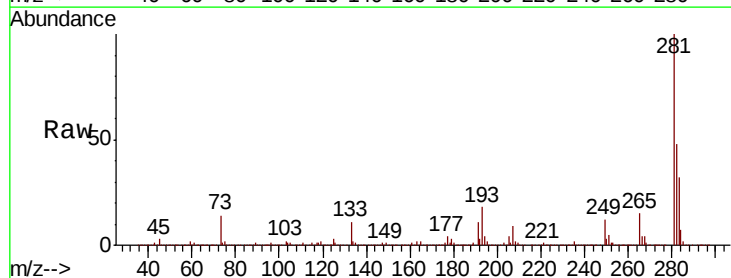
Instrument :
MSVOA_L
ClientSampleId :

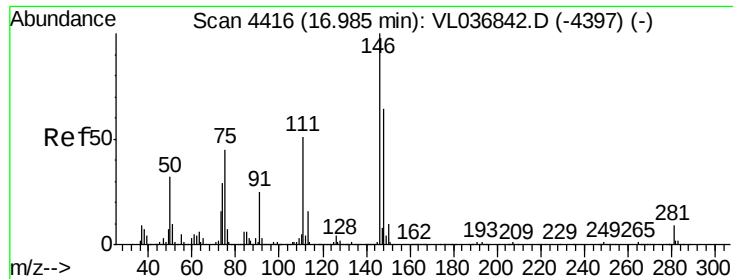
Tot Ion:117 Resp: 3237316
Ion Ratio Lower Upper
117 100
82 68.4 53.5 80.3
119 32.9 25.6 38.4



#65
tert-Butylbenzene
Concen: 0.456 ppbv
RT: 17.00 min Scan# 4420
Delta R.T. 0.26 min
Lab File: VL036888.D
Acq: 28 Apr 2021 20:35

Tgt Ion:119 Resp: 194834
Ion Ratio Lower Upper
119 100
91 7.2 67.0 100.6#
134 15.8 15.8 23.6

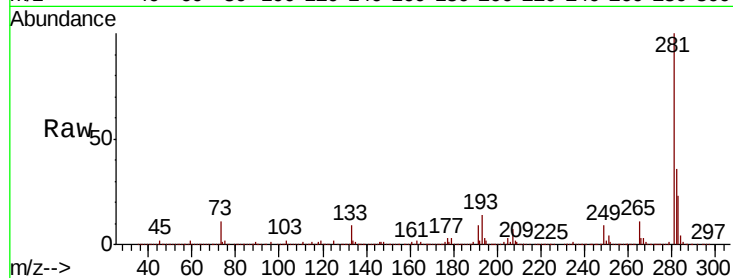




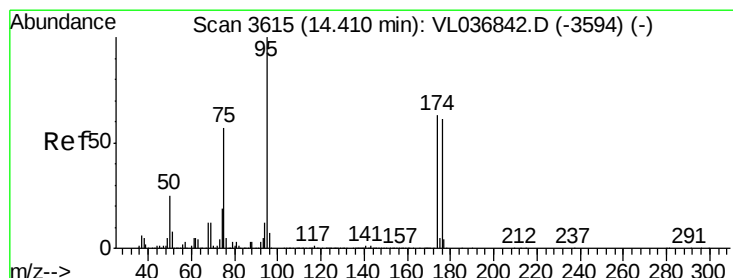
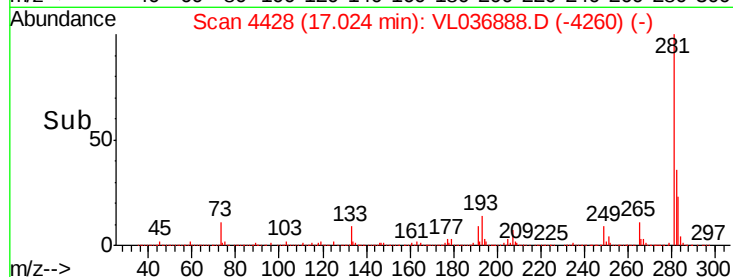
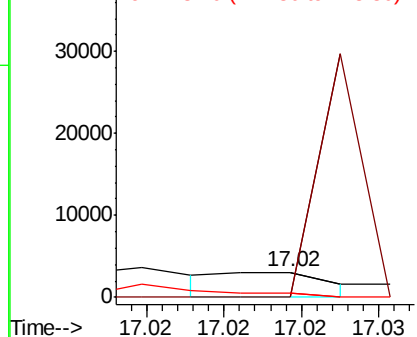
#66
Benzvl Chloride
Concen: 0.035 ppbv
RT: 17.02 min Scan# 4428
Delta R.T. 0.04 min
Lab File: VL036888.D
Acq: 28 Apr 2021 20:35

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 91 Resp: 1476
Ion Ratio Lower Upper
91 100
126 0.0 14.1 21.1#
128 0.0 4.8 7.2#

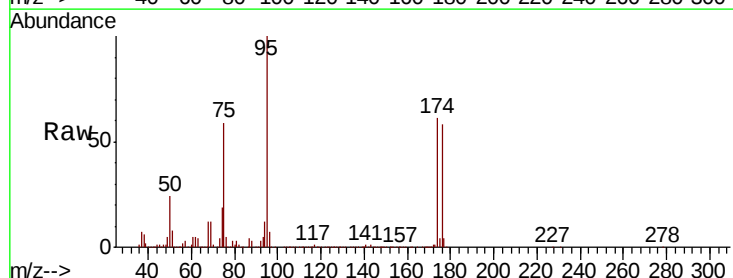


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

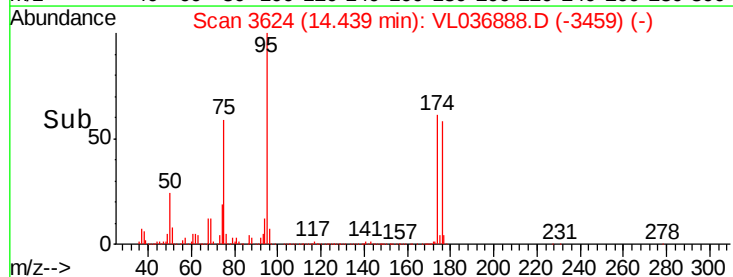
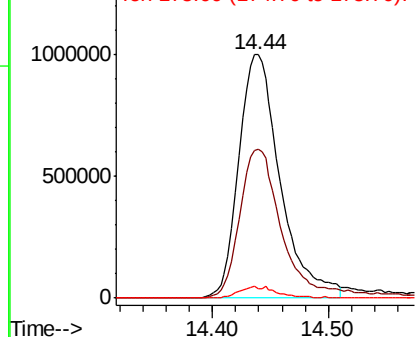


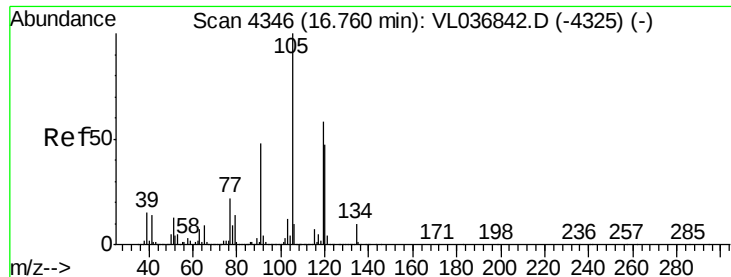
#68
1-Bromo-4-Fluorobenzene
Concen: 9.540 ppbv
RT: 14.44 min Scan# 3624
Delta R.T. 0.03 min
Lab File: VL036888.D
Acq: 28 Apr 2021 20:35

Tgt Ion: 95 Resp: 2479280
Ion Ratio Lower Upper
95 100
174 65.4 52.2 78.2
175 4.8 4.0 6.0



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





#74

1,2,4-Trimethylbenzene

Concen: 0.031 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.03 min

Lab File: VL036888.D

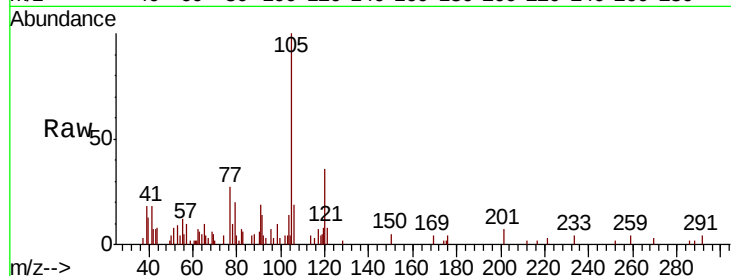
Acq: 28 Apr 2021 20:35

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105	Resp:	12223
Ion Ratio	Lower	Upper
105	100	
120	43.0	37.6 56.4
91	28.7	39.0 58.4#
77	19.6	17.4 26.0

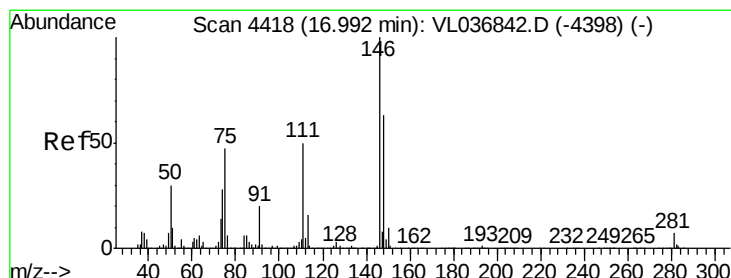
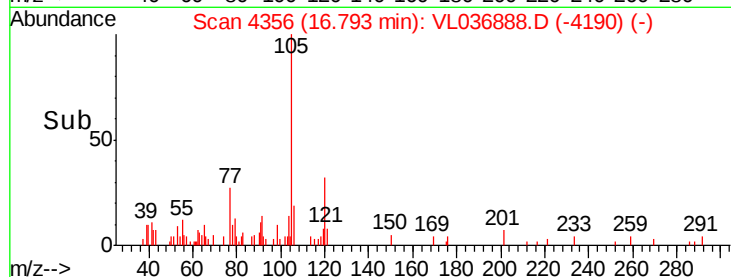
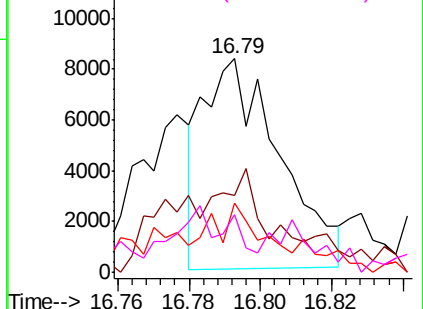


Abundance Ion 105.10 (104.80 to 105.80): V

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



#75

1,3-Dichlorobenzene

Concen: 0.183 ppbv

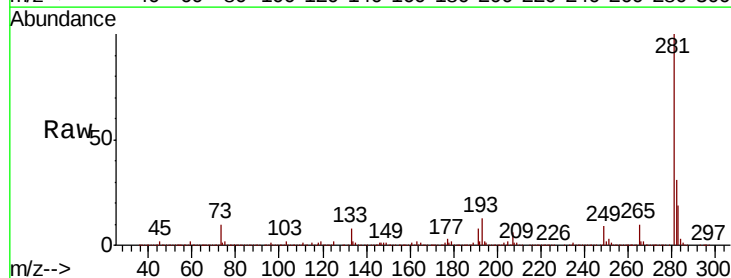
RT: 17.03 min Scan# 4430

Delta R.T. 0.04 min

Lab File: VL036888.D

Acq: 28 Apr 2021 20:35

Tgt Ion:146	Resp:	42541
Ion Ratio	Lower	Upper
146	100	
111	0.0	24.2 72.6#
148	0.0	32.1 96.3#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

