

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036529.D
 Acq On : 27 Mar 2021 1:08
 Operator : SY/AP
 Sample : M1760-17DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 27 03:32:12 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	1312751	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2961857	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2608025	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2045381	9.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

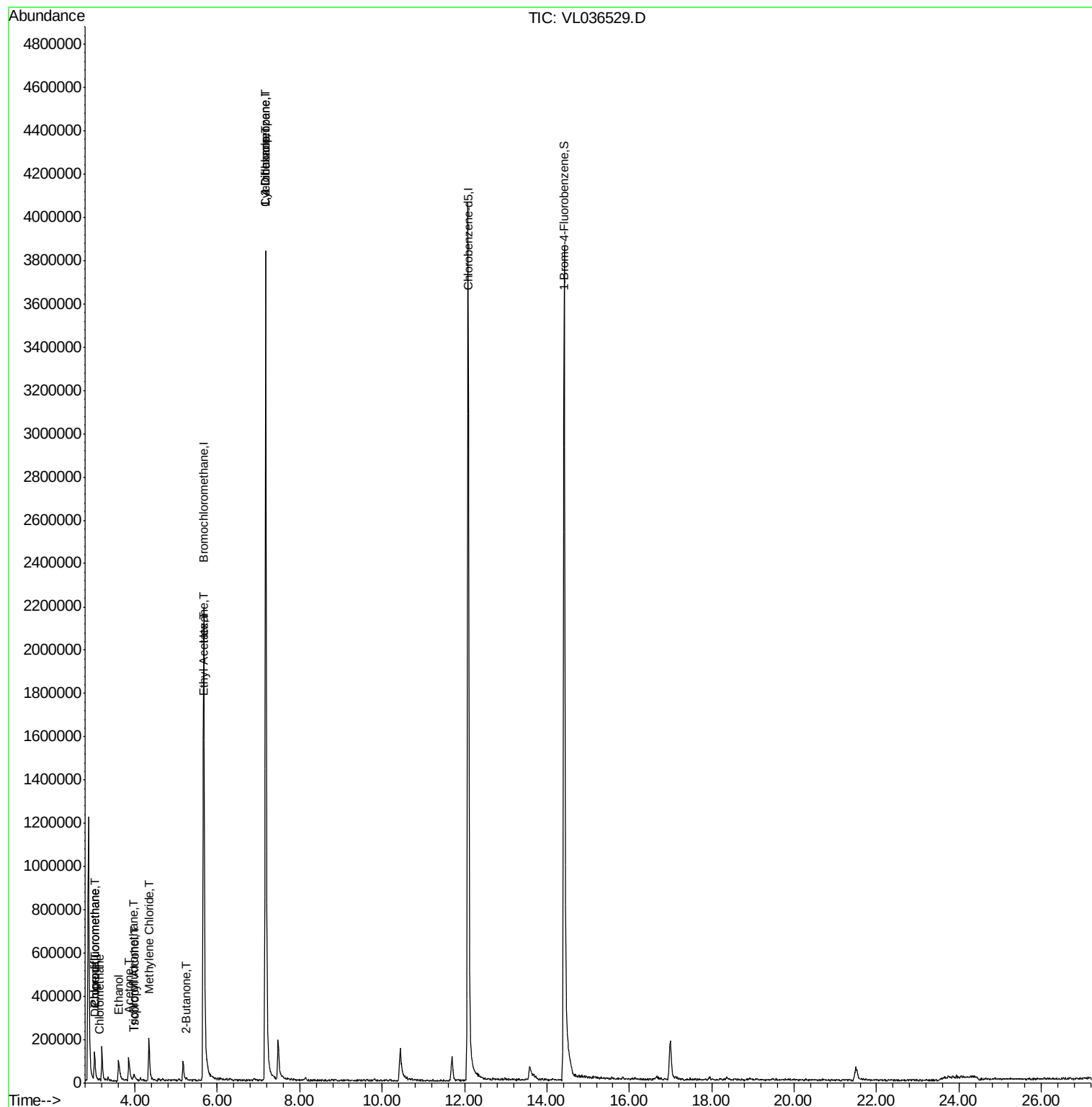
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	9966	0.047 ppbv #	86
3) Chlorodifluoromethane	3.02	51	53387	0.218 ppbv #	59
4) Chloromethane	3.14	50	3253	0.038 ppbv #	85
9) Propene	3.02	41	15818	0.202 ppbv	97
11) Trichlorofluoromethane	3.95	101	4876	0.022 ppbv #	65
13) Ethanol	3.60	45	75910	8.152 ppbv #	59
15) Acetone	3.85	43	132006	1.022 ppbv #	73
19) Isopropyl Alcohol	3.97	45	12409	0.175 ppbv #	89
20) Methylene Chloride	4.34	84	71967	1.190 ppbv	96
25) Ethyl Acetate	5.69	43	32528	0.106 ppbv #	83
26) Hexane	5.68	57	38806	0.272 ppbv #	42
30) Cyclohexane	7.16	84	12235	0.106 ppbv #	1
34) 2-Butanone	5.24	43	3987	0.028 ppbv #	1
39) 1,2-Dichloropropane	7.17	63	831595	7.505 ppbv #	23

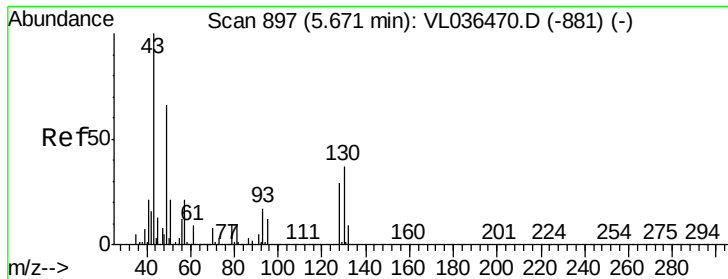
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036529.D

Acq: 27 Mar 2021 1:08

Instrument :

MSVOA_L

ClientSampleId :

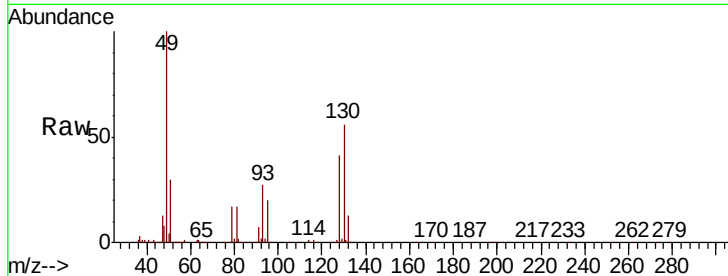
Tot Ion: 49 Resp: 1312751

Ion Ratio Lower Upper

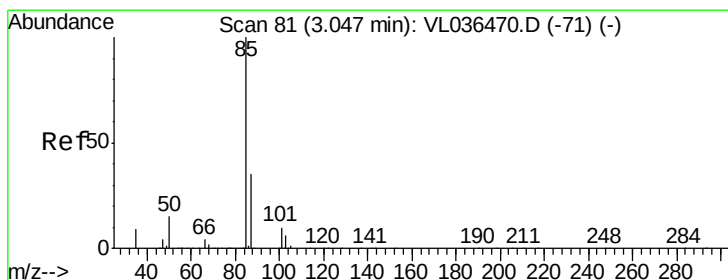
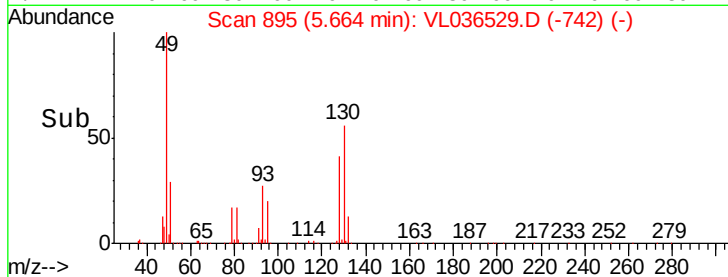
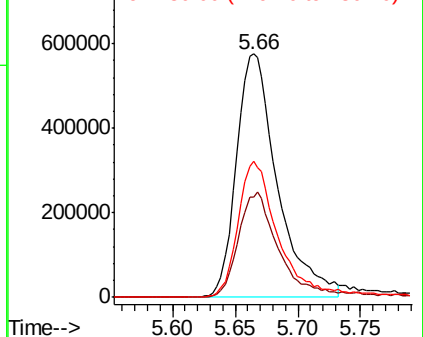
49 100

128 44.1 23.5 70.6

130 56.4 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: 0.047 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036529.D

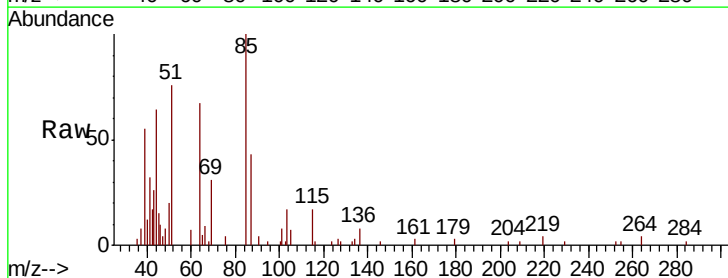
Acq: 27 Mar 2021 1:08

Tgt Ion: 85 Resp: 9966

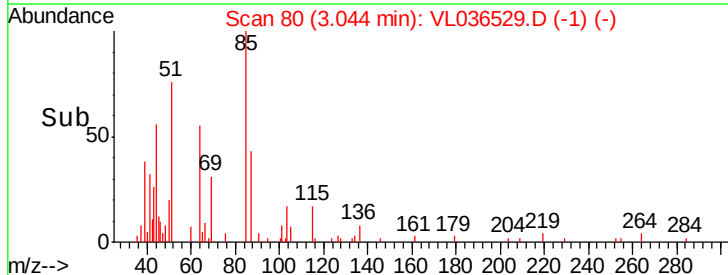
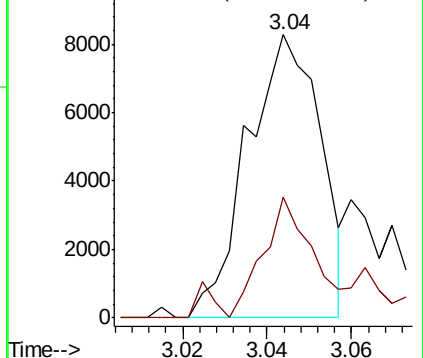
Ion Ratio Lower Upper

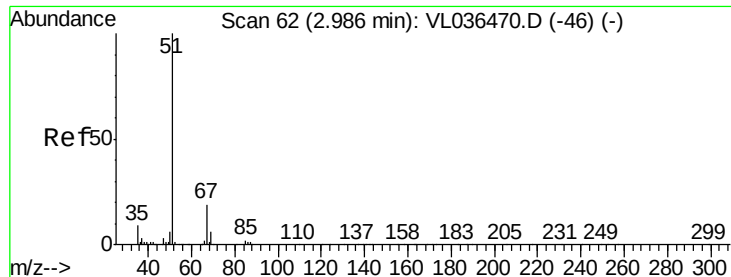
85 100

87 42.9 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: 0.218 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.04 min

Lab File: VL036529.D

Acq: 27 Mar 2021 1:08

Instrument :

MSVOA_L

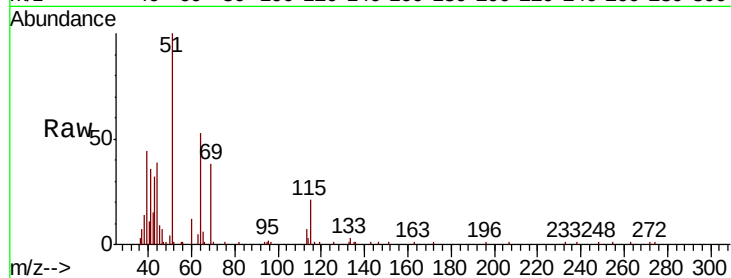
ClientSampleId :

Tot Ion: 51 Resp: 53387

Ion Ratio Lower Upper

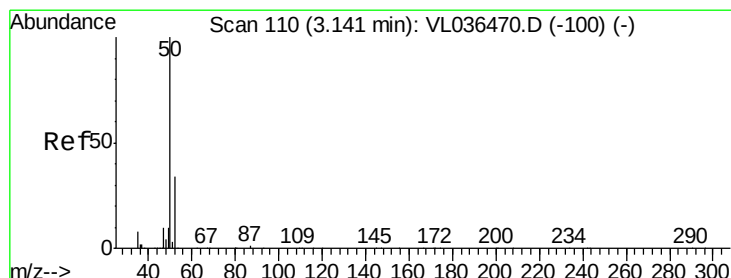
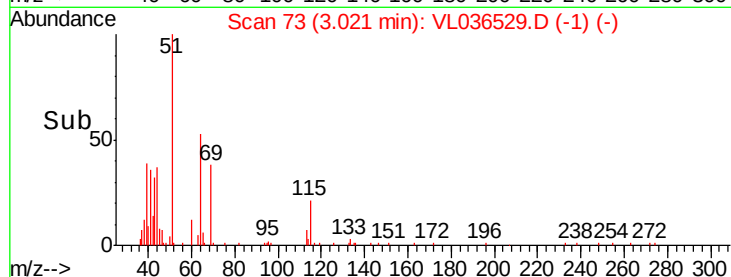
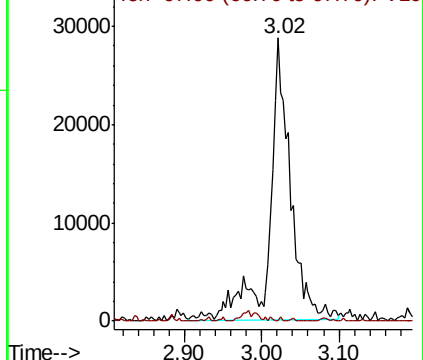
51 100

67 0.2 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: 0.038 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036529.D

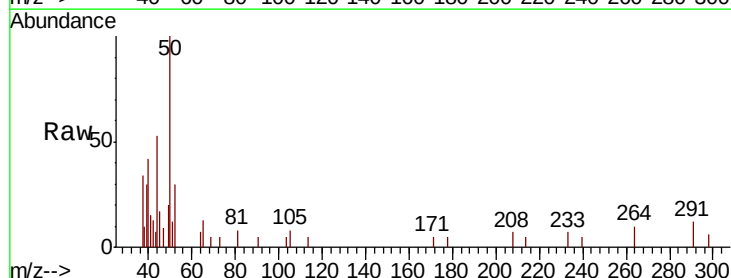
Acq: 27 Mar 2021 1:08

Tgt Ion: 50 Resp: 3253

Ion Ratio Lower Upper

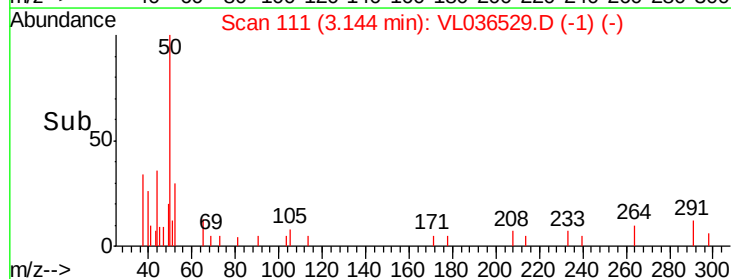
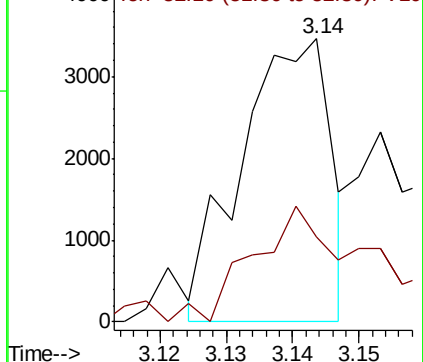
50 100

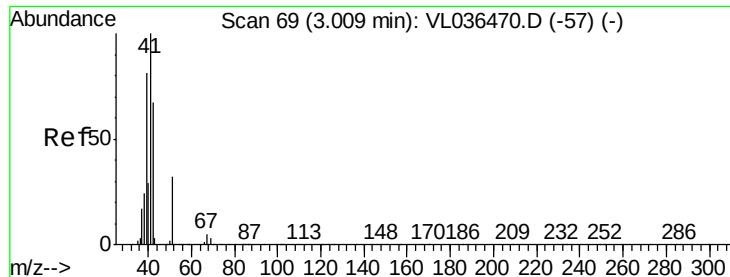
52 25.4 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.202 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036529.D

Acq: 27 Mar 2021 1:08

Instrument :

MSVOA_L

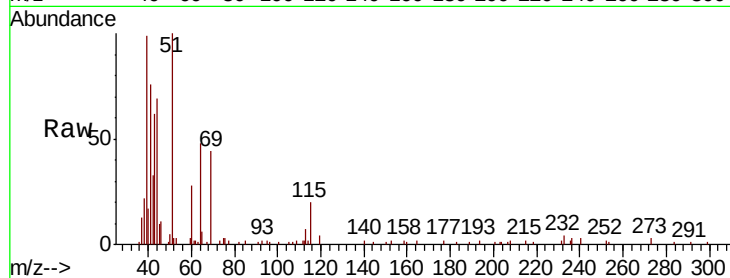
ClientSampleId :

Tot Ion: 41 Resp: 15818

Ion Ratio Lower Upper

41 100

42 73.7 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.02

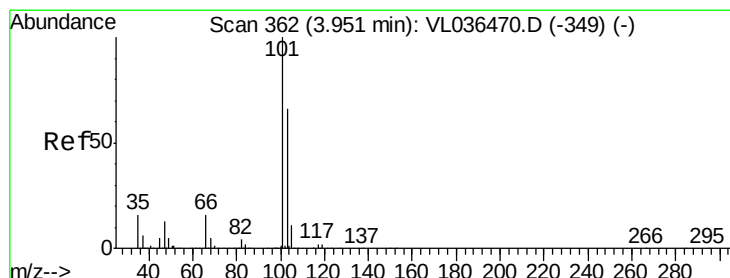
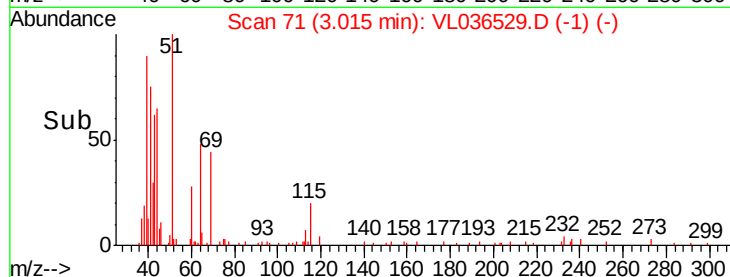
10000

5000

0

Time-->

2.98 3.00 3.02 3.04



#11

Trichlorofluoromethane

Concen: 0.022 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.00 min

Lab File: VL036529.D

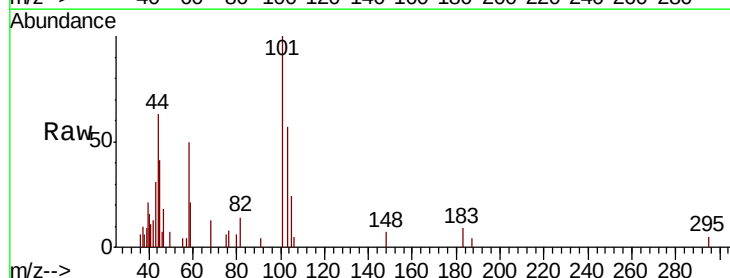
Acq: 27 Mar 2021 1:08

Tgt Ion: 101 Resp: 4876

Ion Ratio Lower Upper

101 100

103 37.7 52.5 78.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

5000

4000

3000

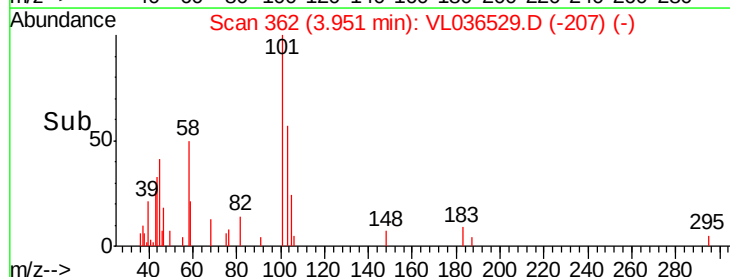
2000

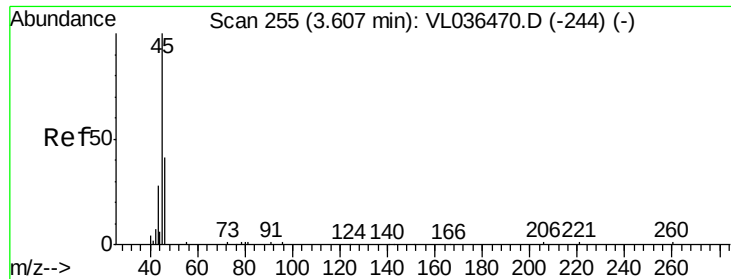
1000

0

Time-->

3.94 3.96

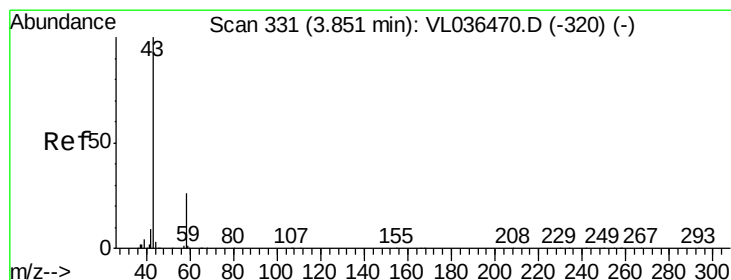
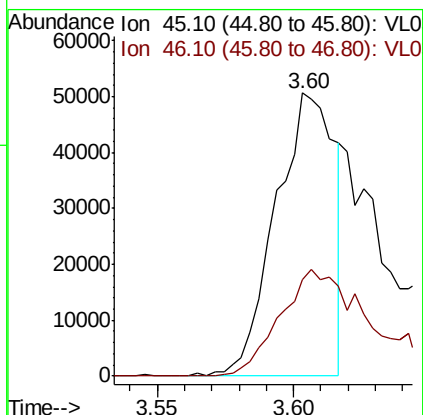
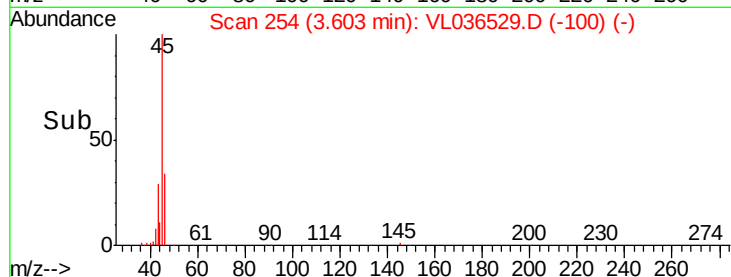
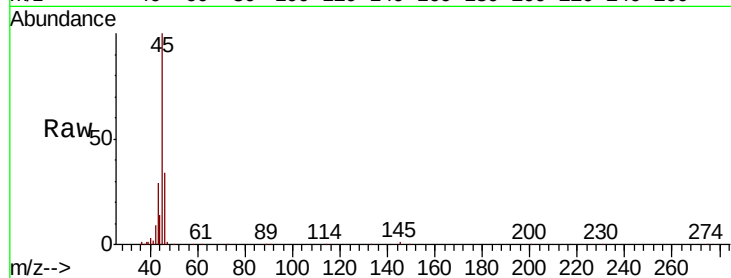




#13
Ethanol
Concen: 8.152 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL036529.D
Acq: 27 Mar 2021 1:08

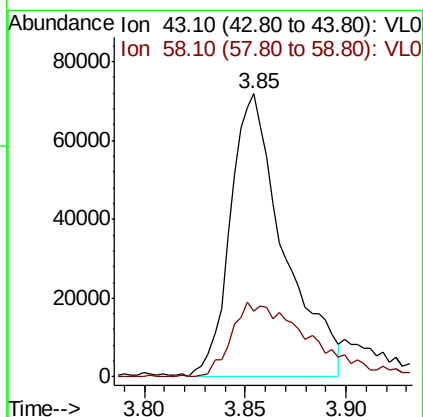
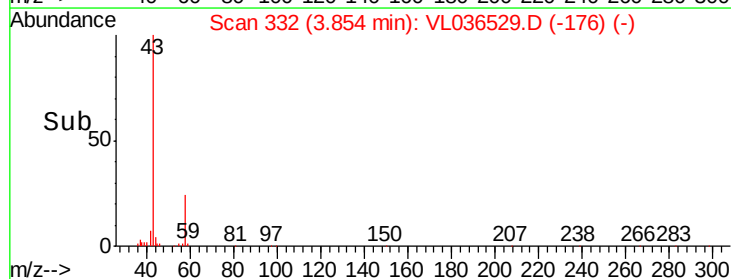
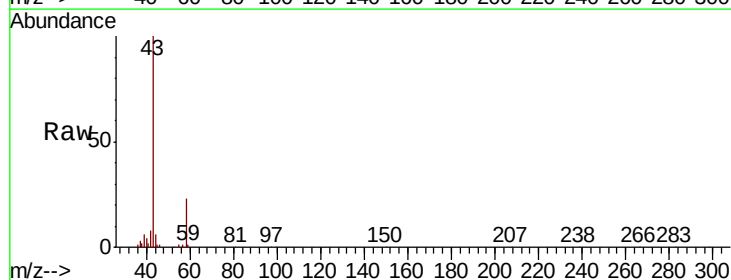
Instrument :
MSVOA_L
ClientSampleId :

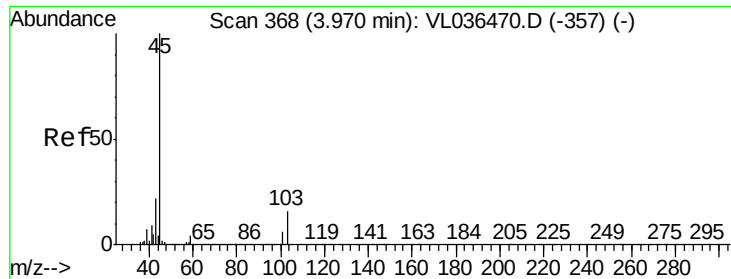
Tot Ion: 45 Resp: 75910
Ion Ratio Lower Upper
45 100
46 67.1 16.6 66.2#



#15
Acetone
Concen: 1.022 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL036529.D
Acq: 27 Mar 2021 1:08

Tgt Ion: 43 Resp: 132006
Ion Ratio Lower Upper
43 100
58 40.3 21.2 31.8#





#19

Isopropyl Alcohol

Concen: 0.175 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL036529.D

Acq: 27 Mar 2021 1:08

Instrument :

MSVOA_L

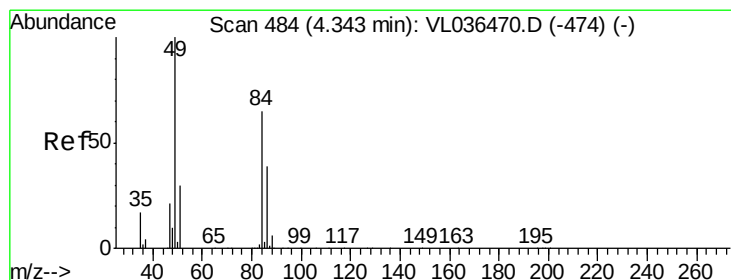
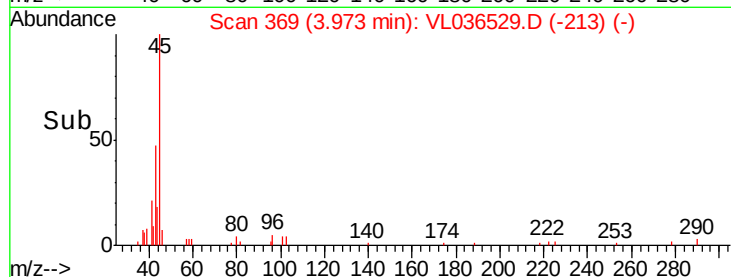
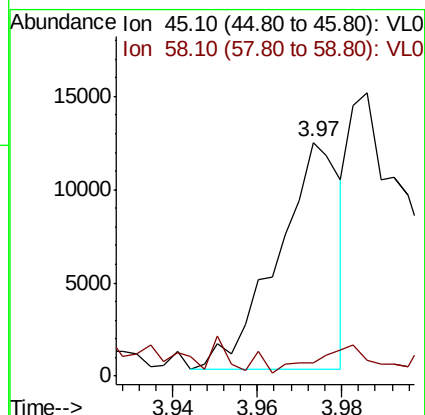
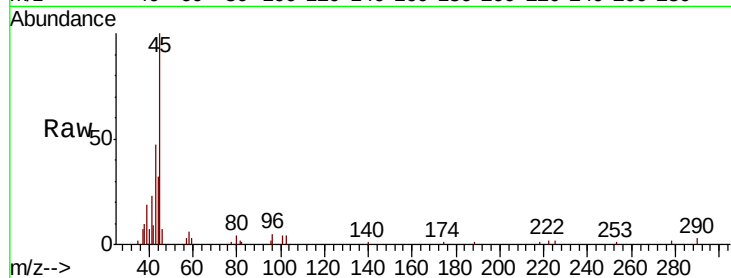
ClientSampleId :

Tot Ion: 45 Resp: 12409

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 1.190 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036529.D

Acq: 27 Mar 2021 1:08

Tgt Ion: 84 Resp: 71967

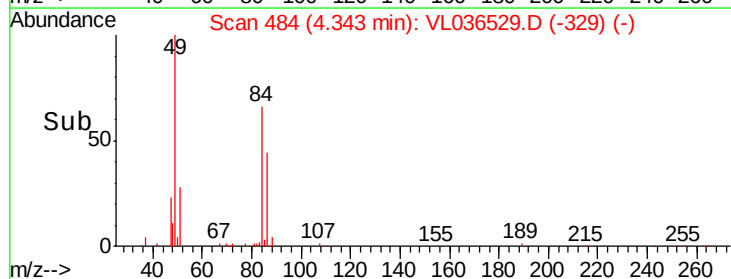
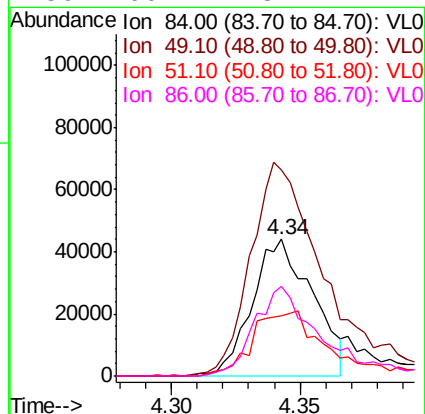
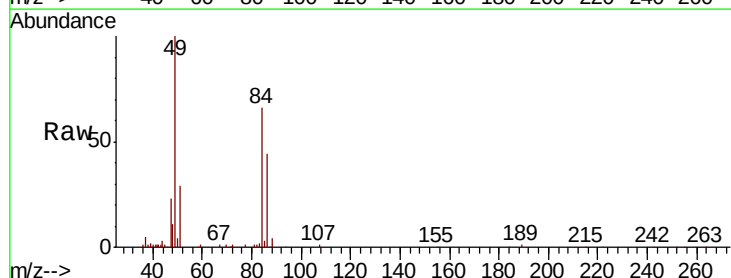
Ion Ratio Lower Upper

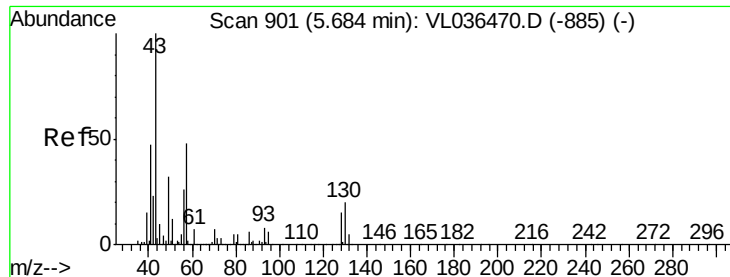
84 100

49 150.3 122.9 184.3

51 44.4 36.9 55.3

86 66.1 48.2 72.4

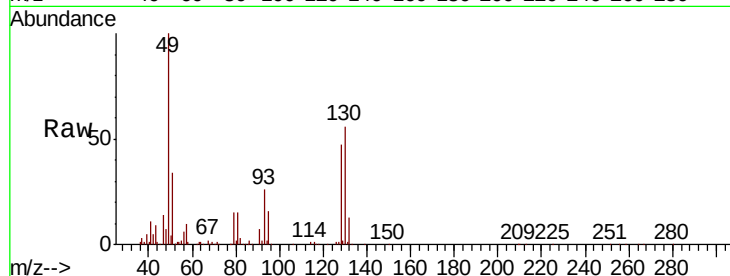




#25
Ethyl Acetate
Concen: 0.106 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036529.D
Acq: 27 Mar 2021 1:08

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	32528
Ion	Ratio	Lower	Upper
43	100		
45	3.6	7.9	11.9#
61	1.2	7.4	11.2#
70	2.9	5.1	7.7#



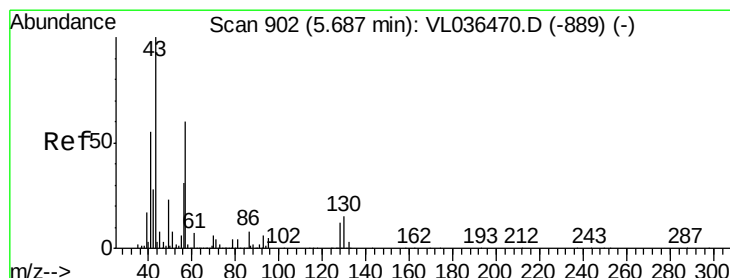
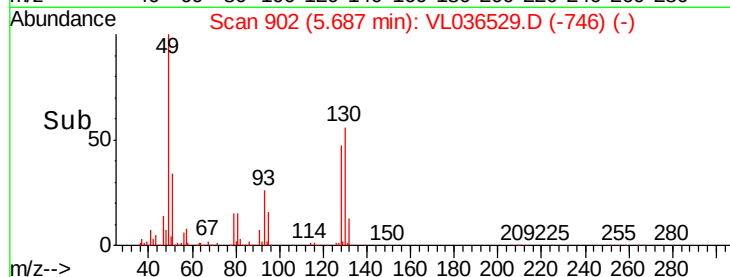
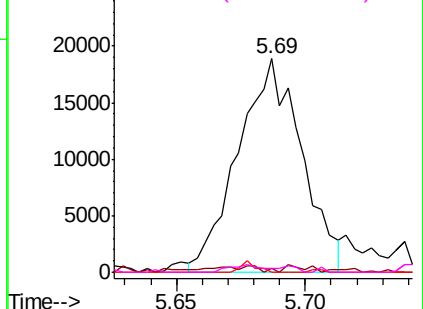
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

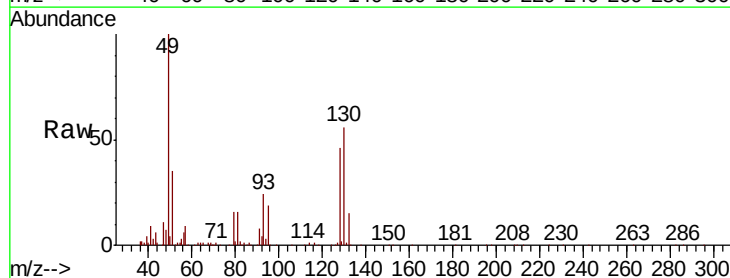
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.272 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036529.D
Acq: 27 Mar 2021 1:08

Tgt Ion:	57	Resp:	38806
Ion	Ratio	Lower	Upper
57	100		
41	129.2	77.2	115.8#
43	94.7	173.8	260.6#
56	72.1	43.8	65.6#



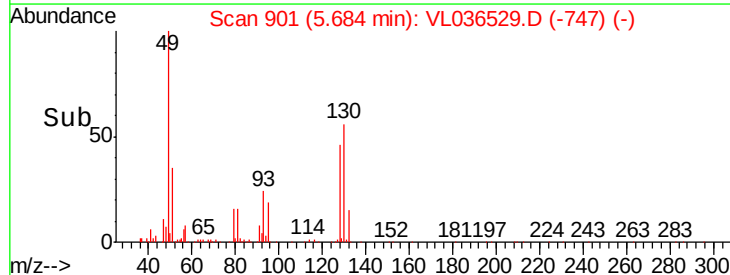
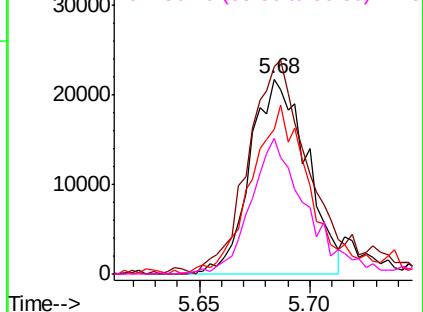
Abundance

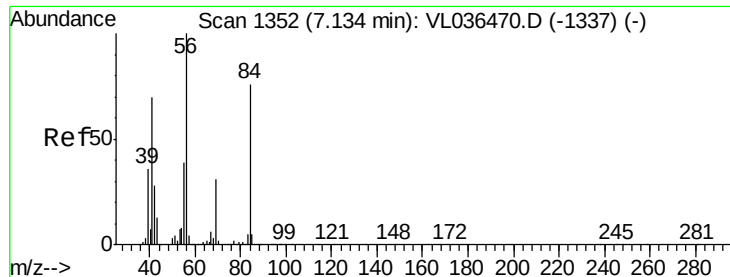
Ion 57.10 (56.80 to 57.80): VL0

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

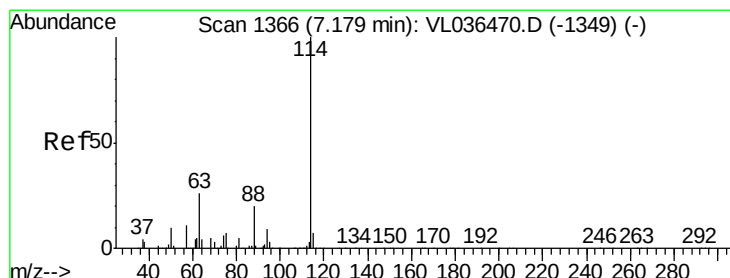
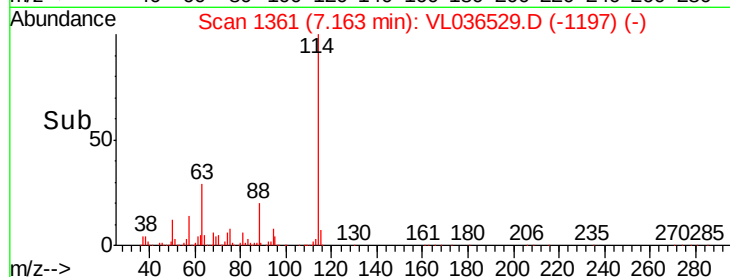
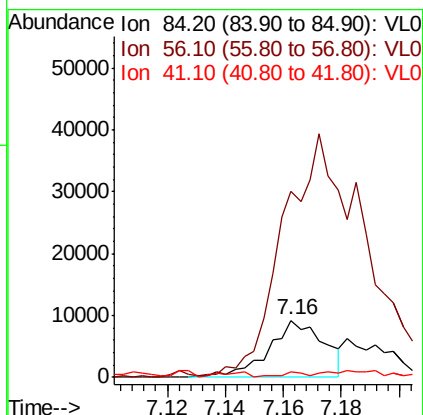
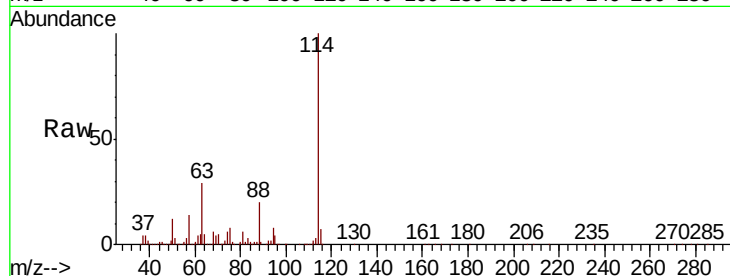




#30
Cyclohexane
Concen: 0.106 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. 0.03 min
Lab File: VL036529.D
Acq: 27 Mar 2021 1:08

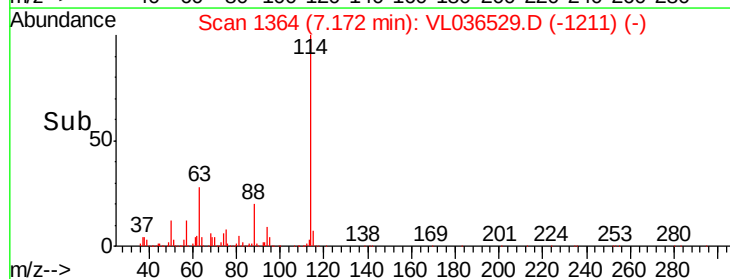
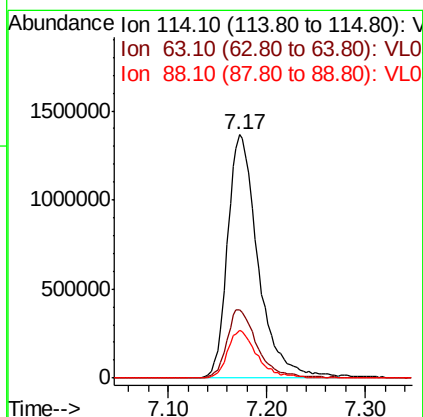
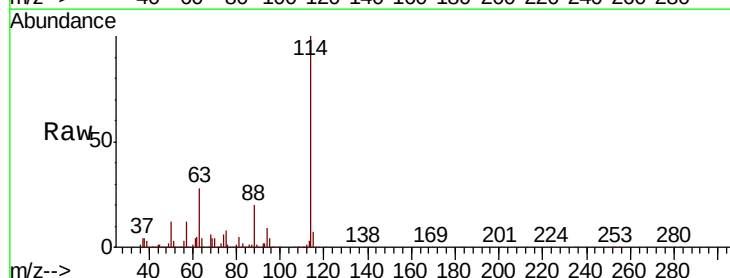
Instrument :
MSVOA_L
ClientSampleId :

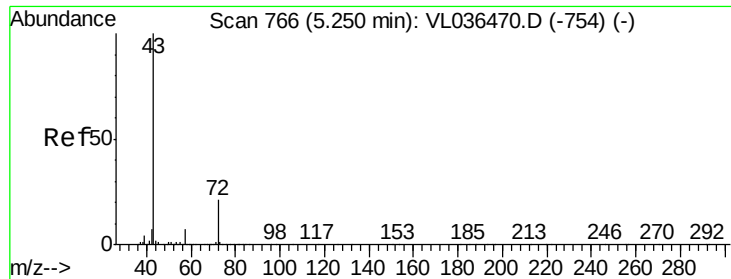
Tot Ion: 84 Resp: 12235
Ion Ratio Lower Upper
84 100
56 686.9 114.6 171.8#
41 0.0 75.3 112.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL036529.D
Acq: 27 Mar 2021 1:08

Tgt Ion: 114 Resp: 2961857
Ion Ratio Lower Upper
114 100
63 28.5 22.4 33.6
88 19.3 15.4 23.0

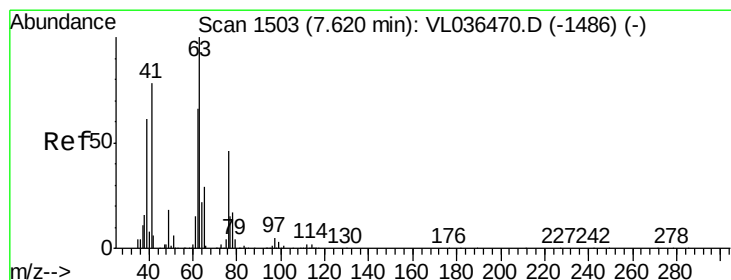
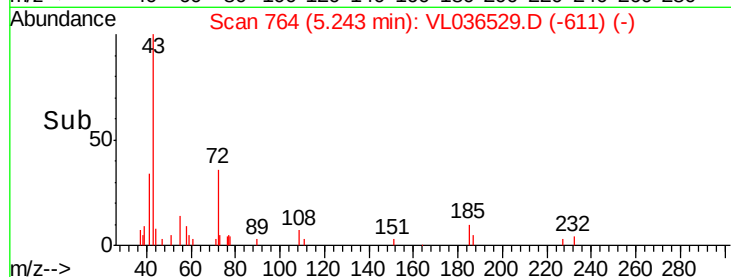
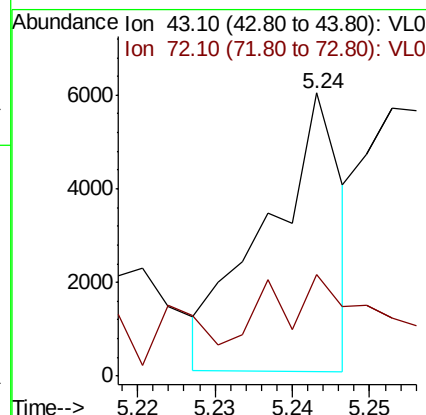
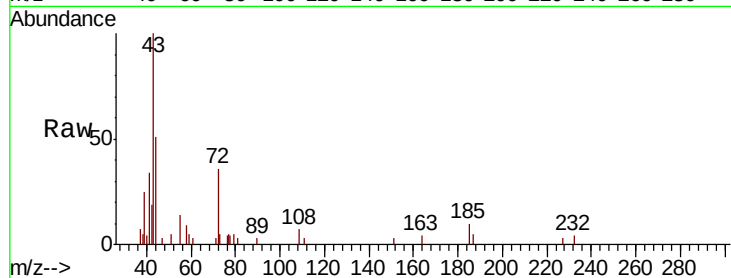




#34
 2-Butanone
 Concen: 0.028 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL036529.D
 Acq: 27 Mar 2021 1:08

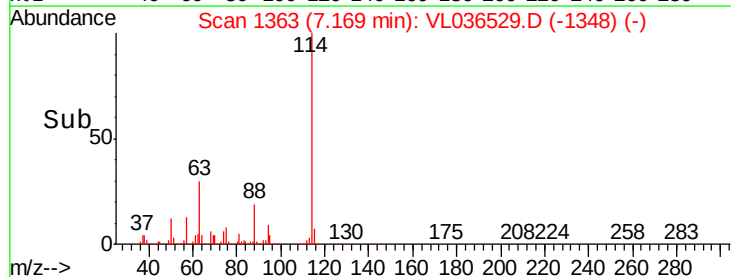
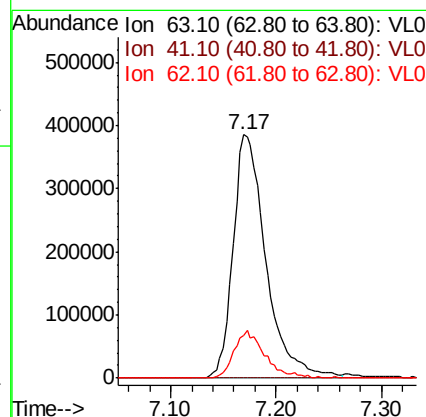
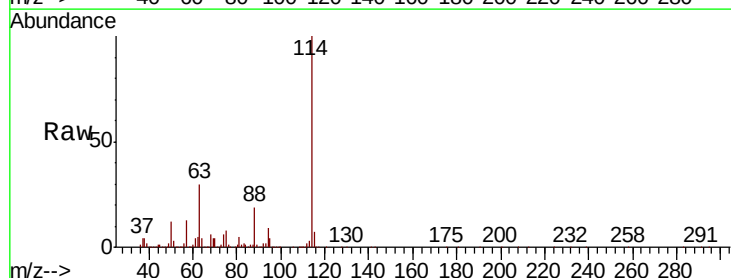
Instrument :
 MSVOA_L
 ClientSampleId :

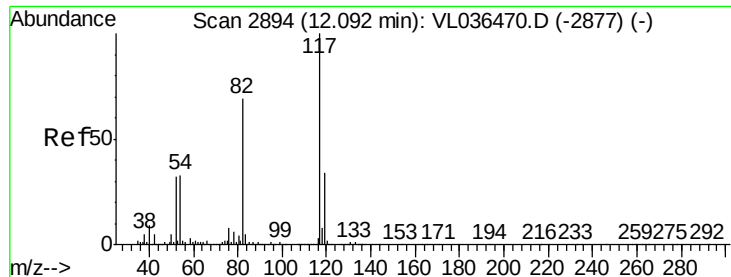
Tot Ion: 43 Resp: 3987
 Ion Ratio Lower Upper
 43 100
 72 90.9 17.0 25.6#



#39
 1,2-Dichloropropane
 Concen: 7.505 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL036529.D
 Acq: 27 Mar 2021 1:08

Tgt Ion: 63 Resp: 831595
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 17.3 52.8 79.2#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL036529.D

Acq: 27 Mar 2021 1:08

Instrument :

MSVOA_L

ClientSampled :

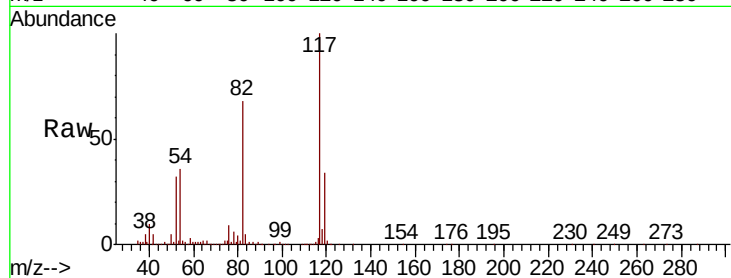
Tot Ion:117 Resp: 2608025

Ion Ratio Lower Upper

117 100

82 73.8 57.4 86.0

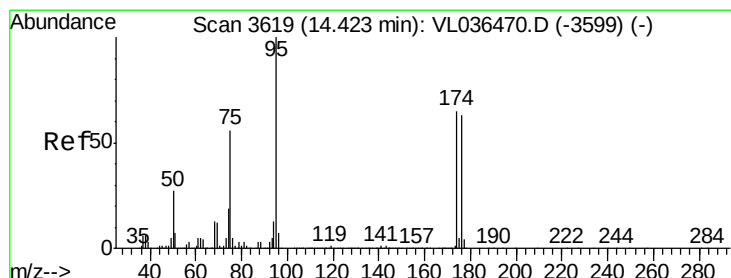
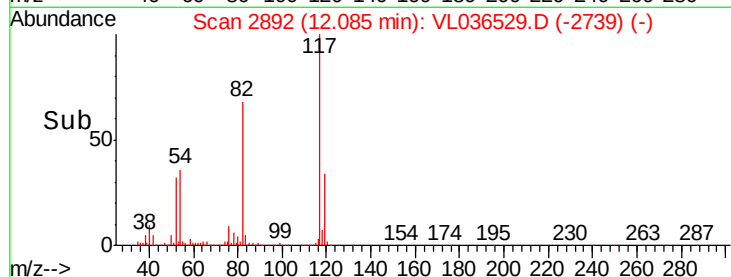
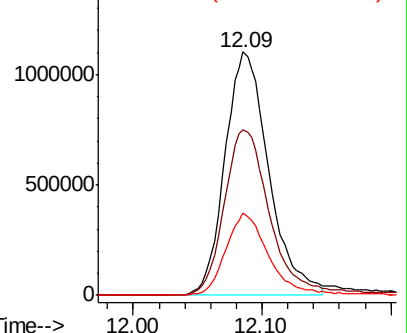
119 33.6 47.4 71.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.840 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL036529.D

Acq: 27 Mar 2021 1:08

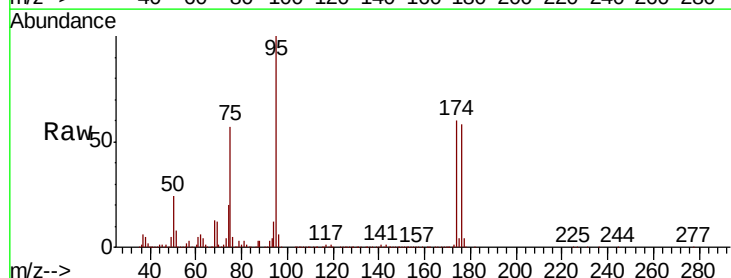
Tgt Ion: 95 Resp: 2045381

Ion Ratio Lower Upper

95 100

174 65.7 51.0 76.6

175 4.5 3.9 5.9



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

