

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\
 Data File : VL036805.D
 Acq On : 13 Apr 2021 16:18
 Operator : SY/AP
 Sample : M2018-05 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 14 04:40:32 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	1357388	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3309196	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2647996	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	1863535	8.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.30%

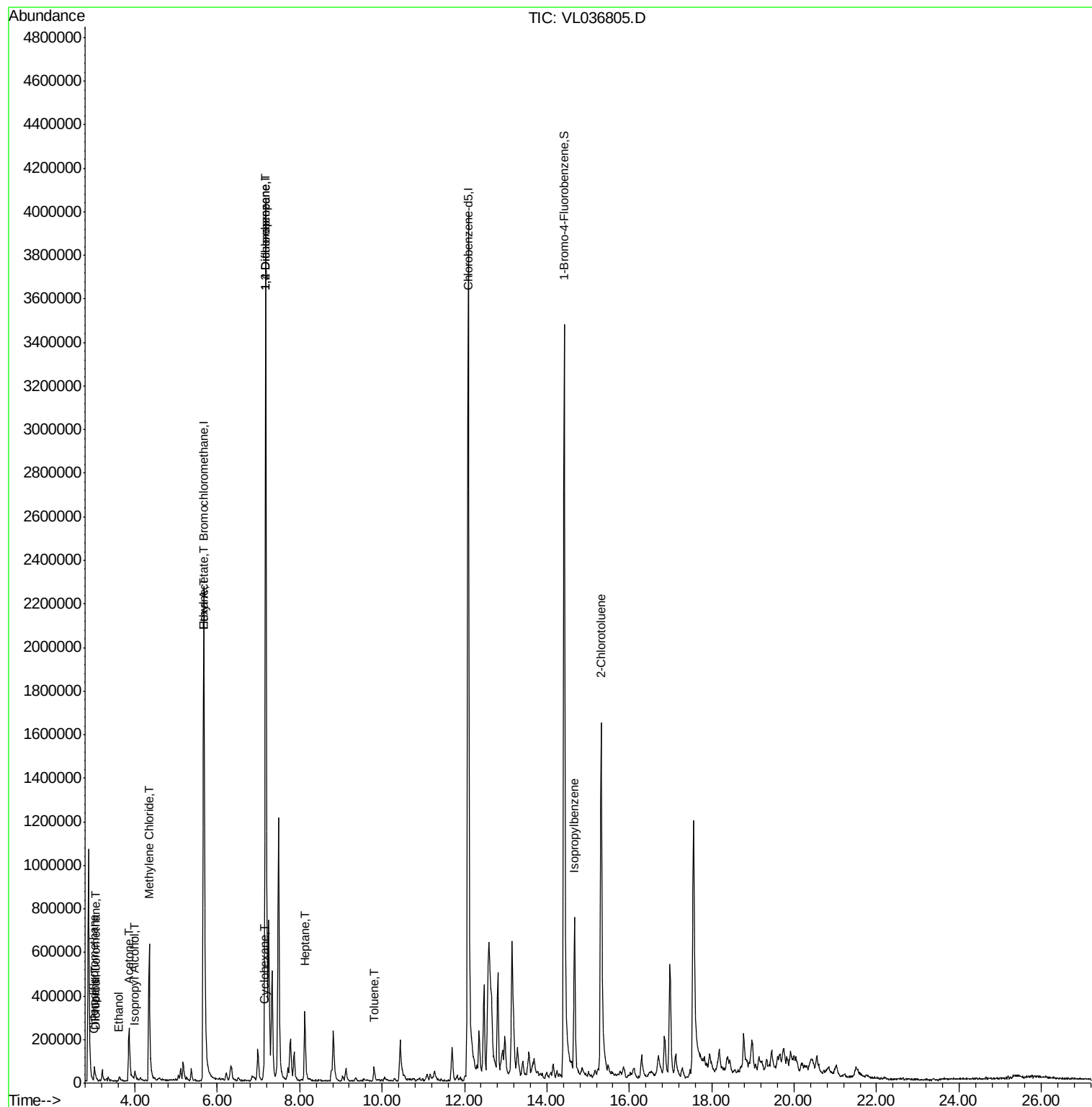
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	11172	0.050 ppbv	91
3) Chlorodifluoromethane	2.99	51	7861	0.031 ppbv	92
9) Propene	3.02	41	19985	0.247 ppbv	93
10) Heptane	8.12	43	67514	0.328 ppbv #	32
13) Ethanol	3.60	45	2861	0.297 ppbv #	34
15) Acetone	3.85	43	330335	2.473 ppbv	90
19) Isopropyl Alcohol	4.00	45	24546	0.334 ppbv #	56
20) Methylene Chloride	4.34	84	250819	4.010 ppbv	91
25) Ethyl Acetate	5.69	43	115120	0.362 ppbv #	80
26) Hexane	5.69	57	153340	1.040 ppbv #	44
30) Cyclohexane	7.13	84	9804	0.082 ppbv #	1
39) 1,2-Dichloropropane	7.18	63	851984	6.882 ppbv #	24
53) Toluene	9.81	91	13980	0.043 ppbv #	20
62) Isopropylbenzene	14.67	105	621703	1.421 ppbv	100
71) 2-Chlorotoluene	15.31	91	24249	0.074 ppbv	70

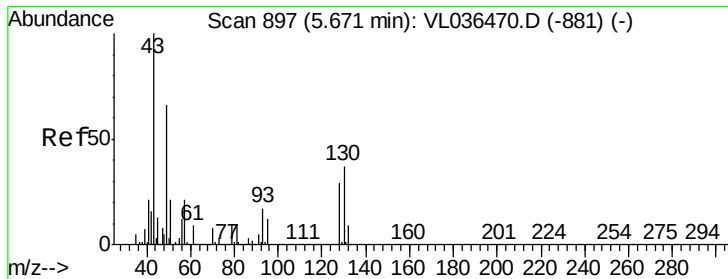
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 13 Apr 2021 16:18

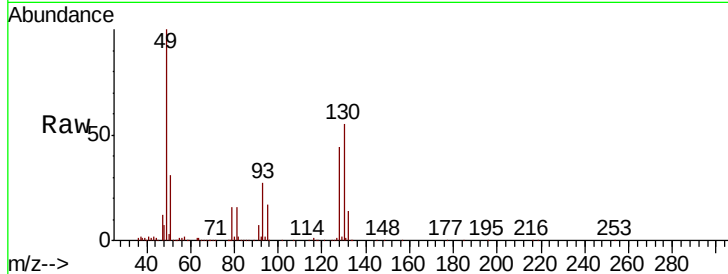
Tot Ion: 49 Resp: 1357388

Ion Ratio Lower Upper

49 100

128 46.0 23.5 70.6

130 58.9 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

800000

600000

400000

200000

0

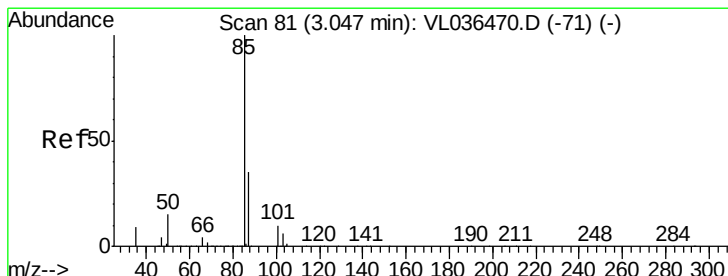
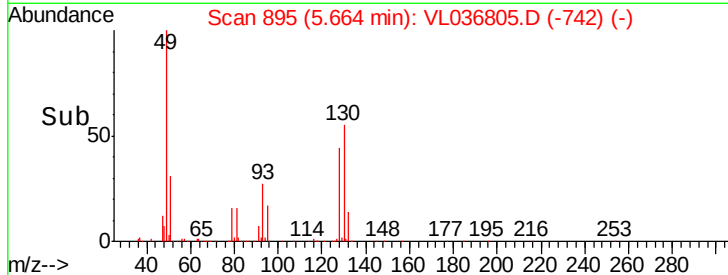
5.66

5.60

5.70

5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036805.D

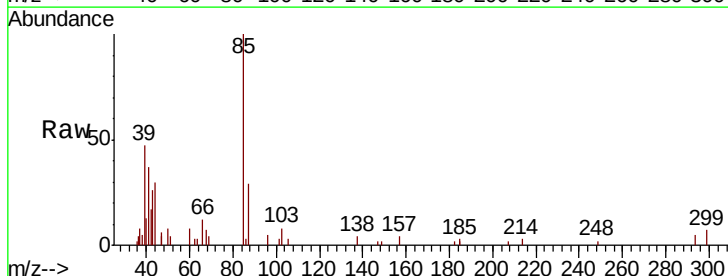
Acq: 13 Apr 2021 16:18

Tgt Ion: 85 Resp: 11172

Ion Ratio Lower Upper

85 100

87 29.4 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

10000

8000

6000

4000

2000

0

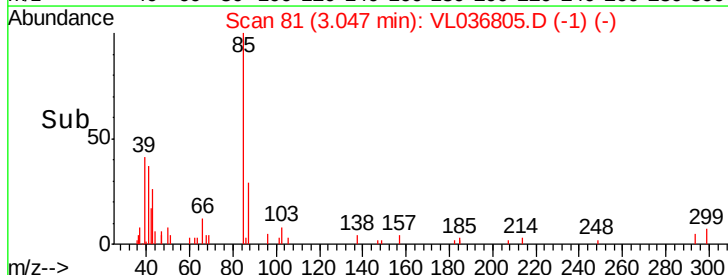
3.05

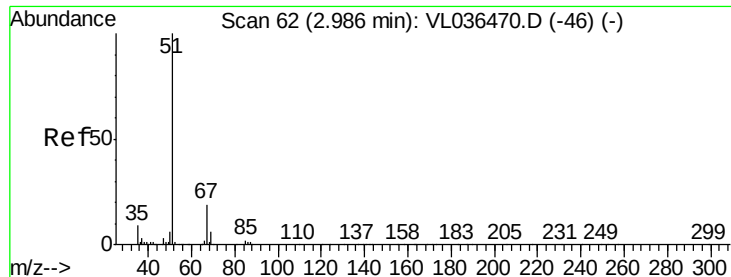
3.02

3.04

3.06

Time-->





#3

Chlorodifluoromethane

Concen: 0.031 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

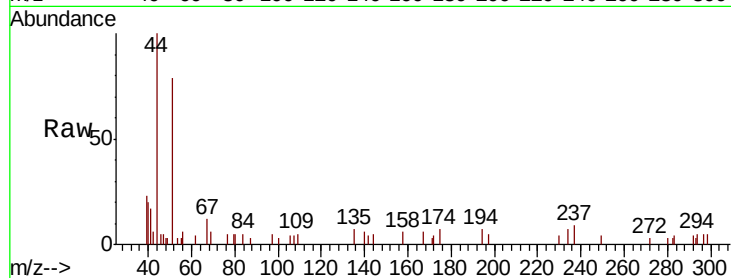
Acq: 13 Apr 2021 16:18

Tot Ion: 51 Resp: 7861

Ion Ratio Lower Upper

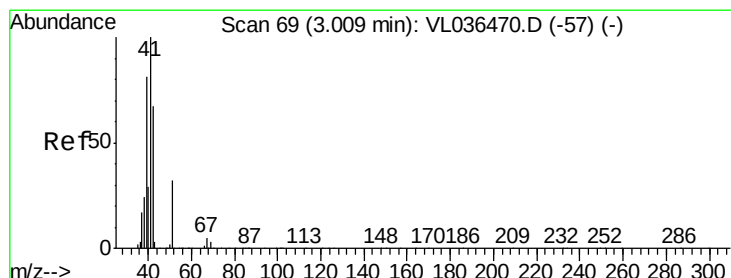
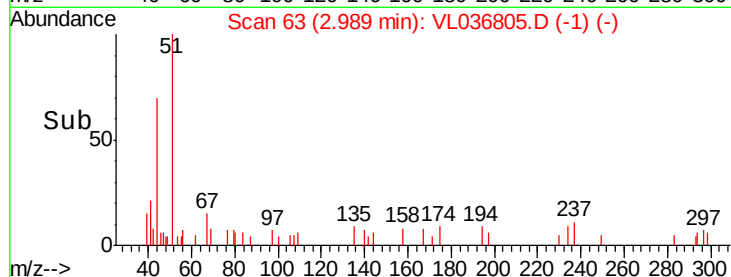
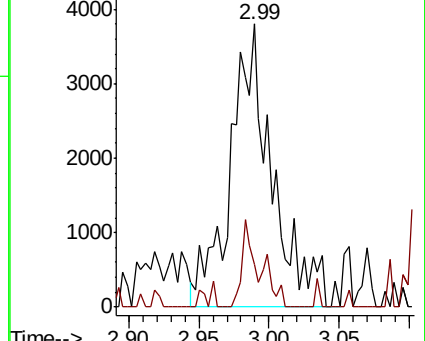
51 100

67 14.9 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: 0.247 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036805.D

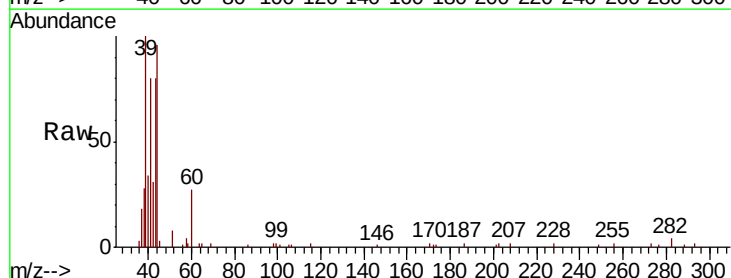
Acq: 13 Apr 2021 16:18

Tgt Ion: 41 Resp: 19985

Ion Ratio Lower Upper

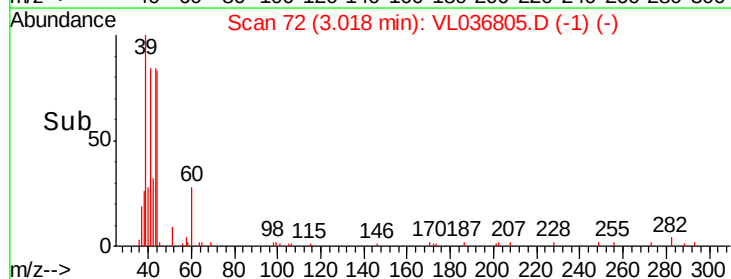
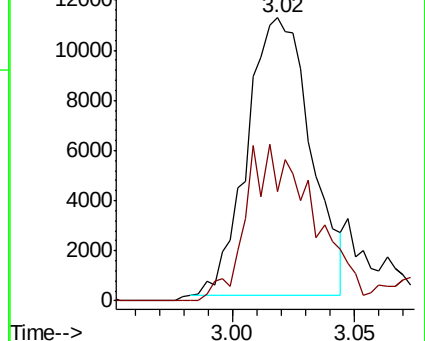
41 100

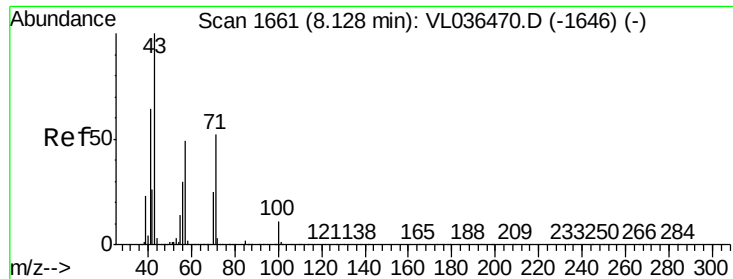
42 65.3 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

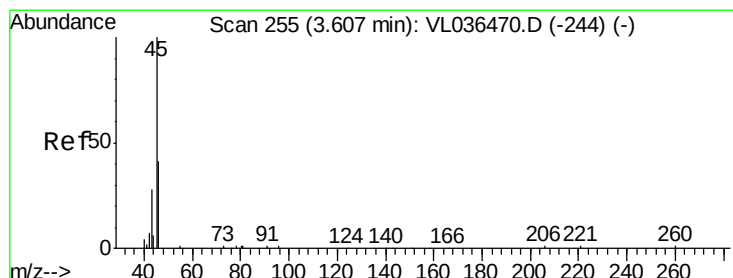
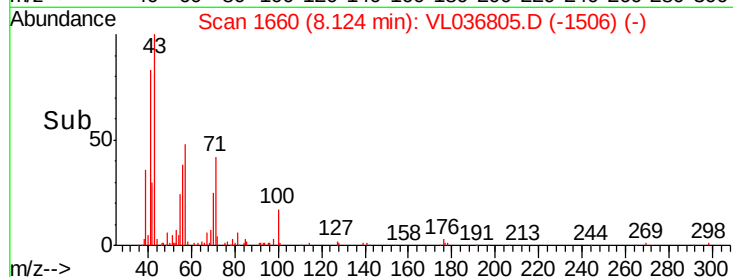
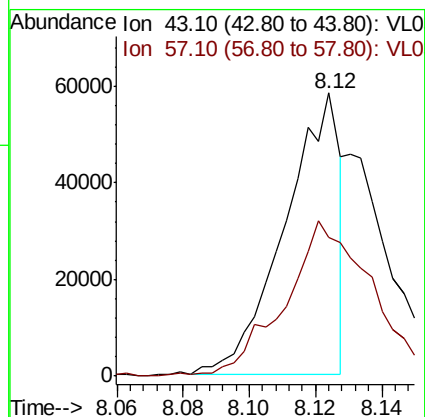
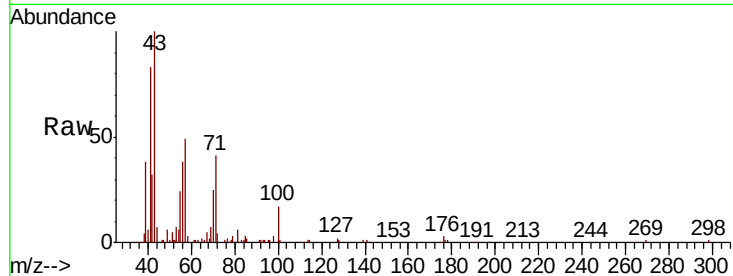
Ion 42.10 (41.80 to 42.80): VL0





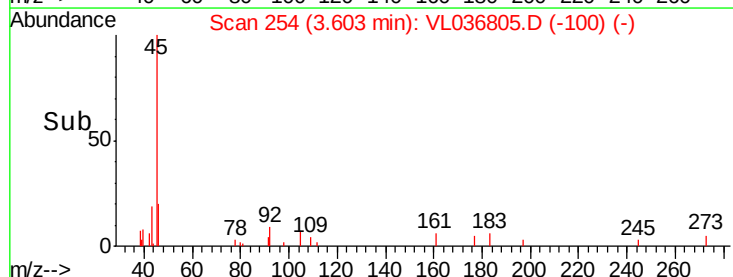
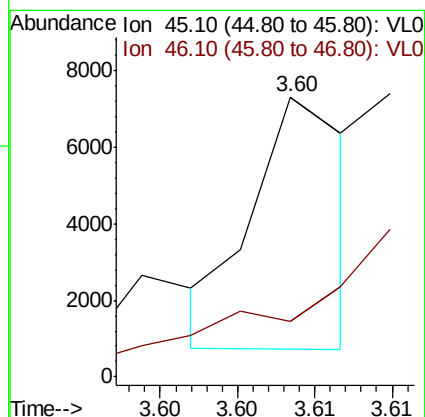
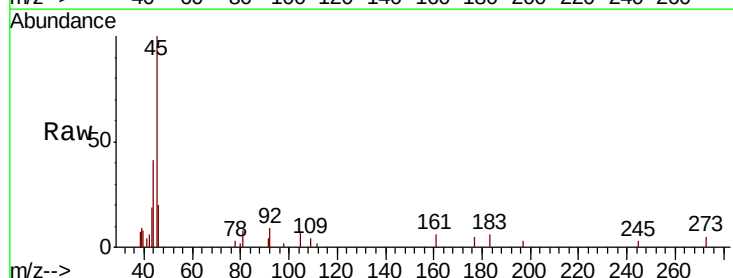
#10
 Heptane
 Concen: 0.328 ppbv
 RT: 8.12
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 16:18

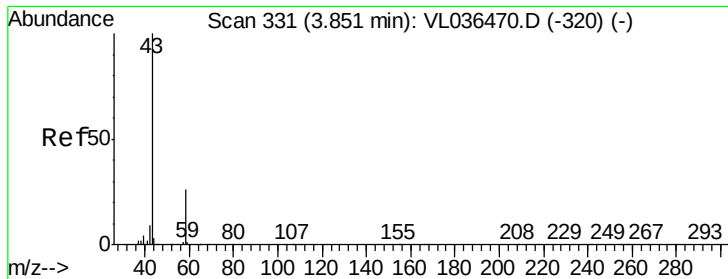
Tot Ion: 43 Resp: 67514
 Ion Ratio Lower Upper
 43 100
 57 95.2 39.0 58.6#



#13
 Ethanol
 Concen: 0.297 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VL036805.D
 Acq: 13 Apr 2021 16:18

Tgt Ion: 45 Resp: 2861
 Ion Ratio Lower Upper
 45 100
 46 0.0 16.6 66.2#





#15

Acetone

Concen: 2.473 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

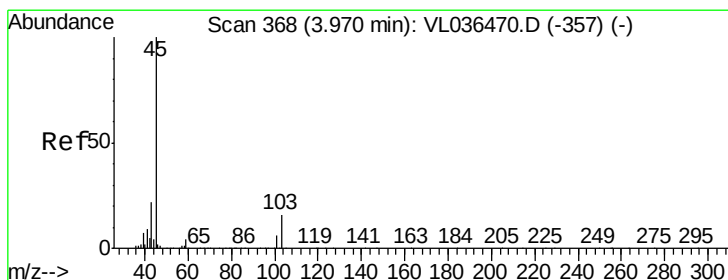
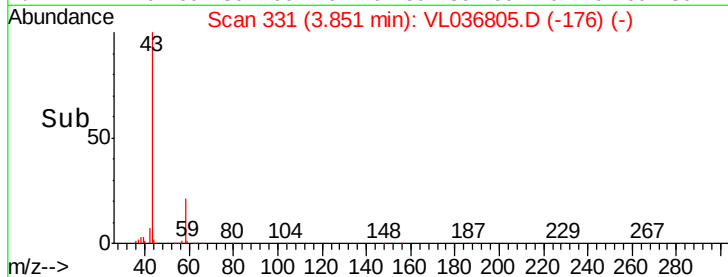
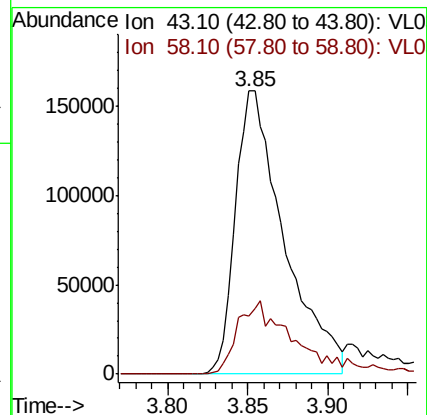
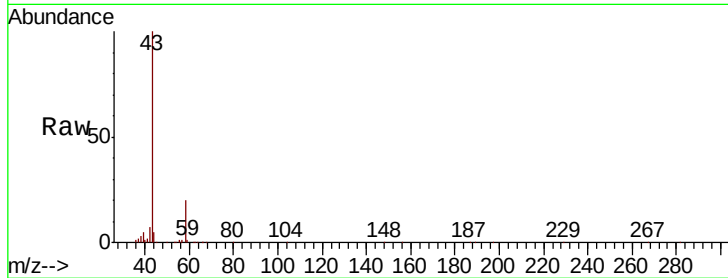
Acq: 13 Apr 2021 16:18

Tot Ion: 43 Resp: 330335

Ion Ratio Lower Upper

43 100

58 31.7 21.2 31.8



#19

Isopropyl Alcohol

Concen: 0.334 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.03 min

Lab File: VL036805.D

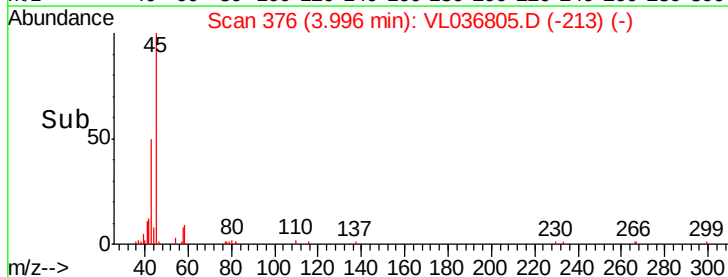
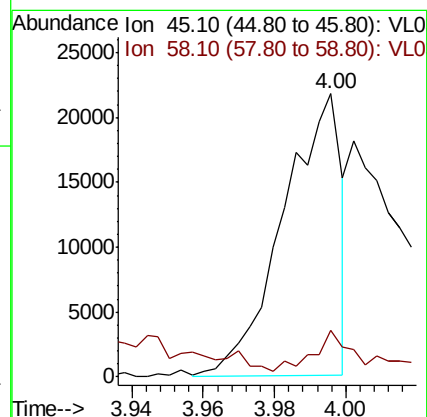
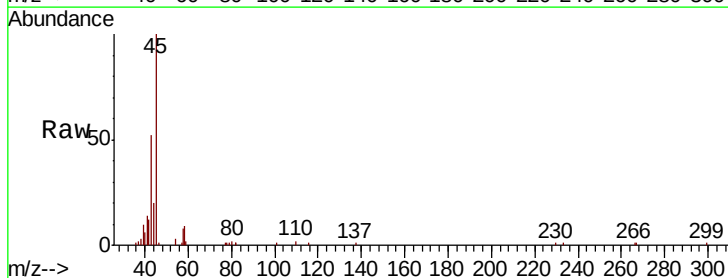
Acq: 13 Apr 2021 16:18

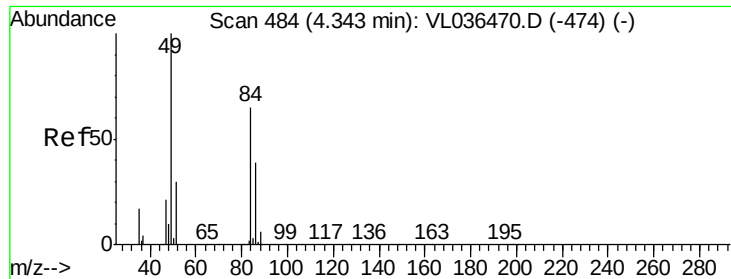
Tgt Ion: 45 Resp: 24546

Ion Ratio Lower Upper

45 100

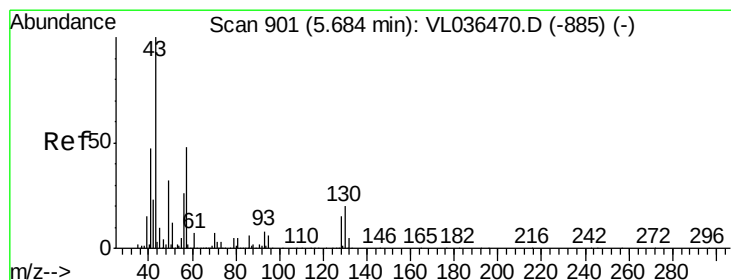
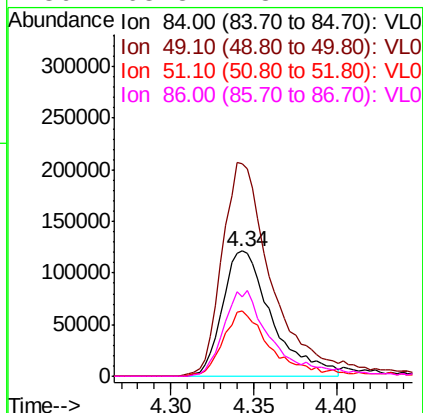
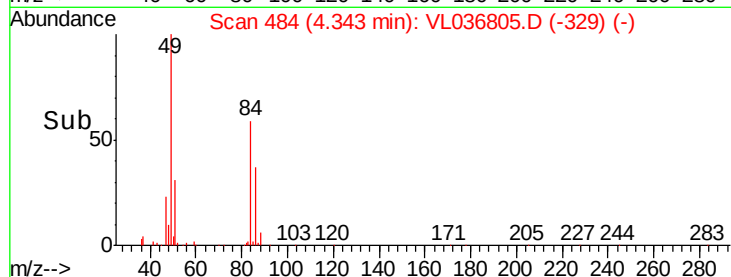
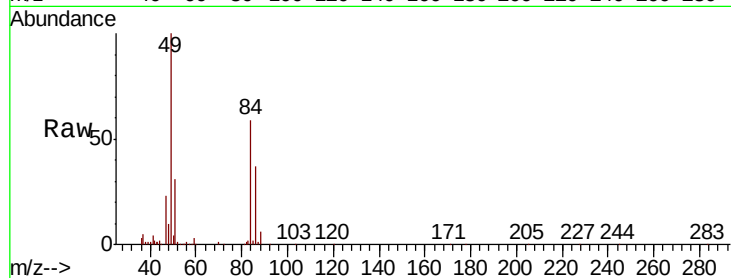
58 18.2 2.9 4.3#





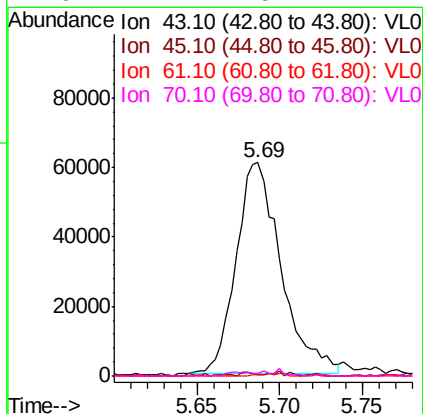
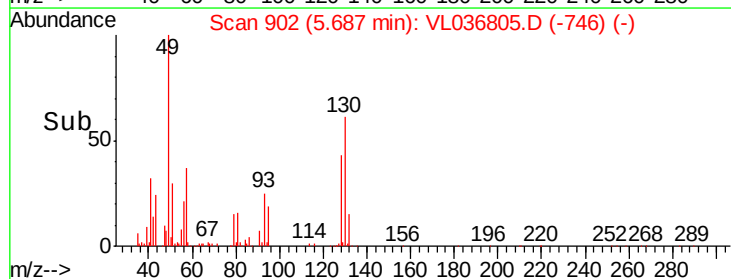
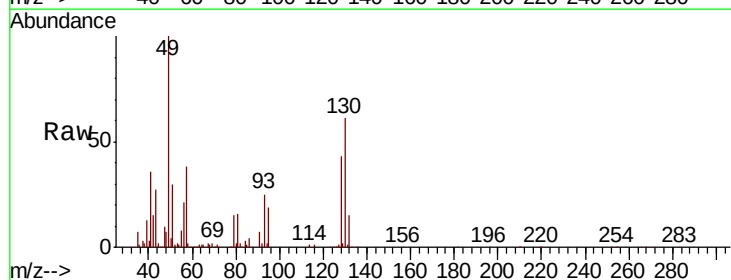
#20
Methvlene Chloride
Concen: 4.010 ppbv
RT: 4.34 Instrument :
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2021 16:18

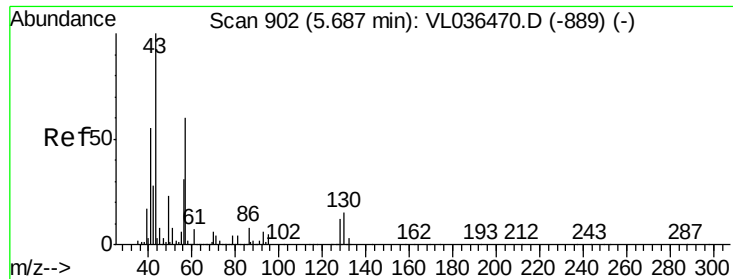
Tot Ion:	84	Resp:	250819
Ion	Ratio	Lower	Upper
84	100		
49	168.3	122.9	184.3
51	51.3	36.9	55.3
86	63.3	48.2	72.4



#25
Ethyl Acetate
Concen: 0.362 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036805.D
Acq: 13 Apr 2021 16:18

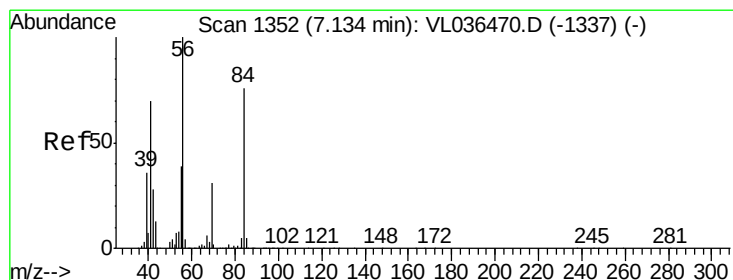
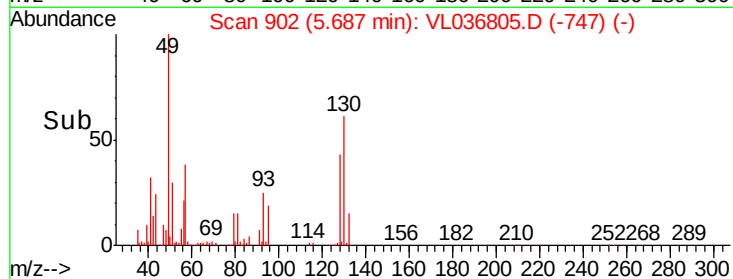
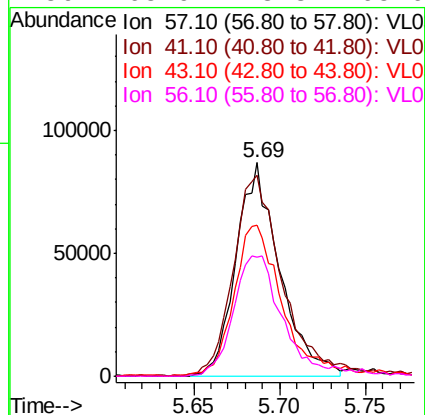
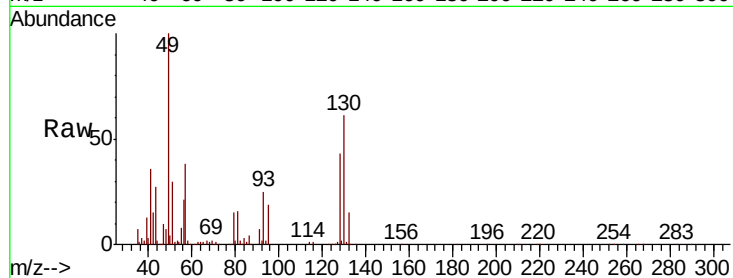
Tgt Ion:	43	Resp:	115120
Ion	Ratio	Lower	Upper
43	100		
45	2.0	7.9	11.9#
61	0.8	7.4	11.2#
70	2.4	5.1	7.7#





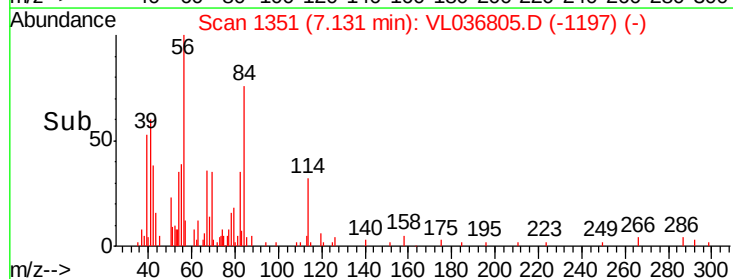
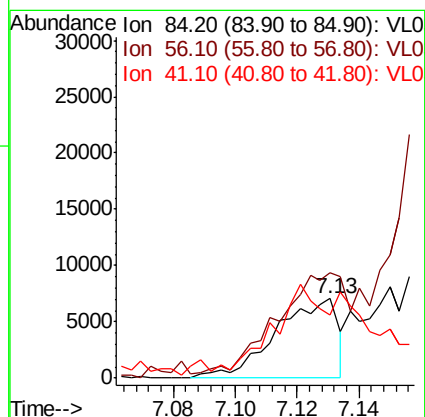
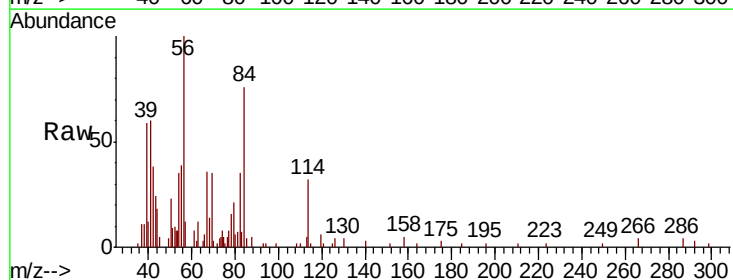
#26
Hexane
Concen: 1.040 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Apr 2021 16:18

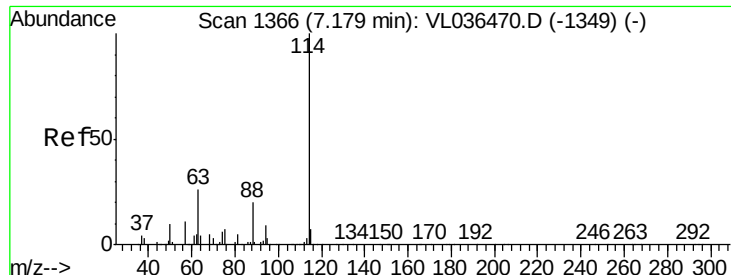
Tot Ion:	57	Resp:	153340
Ion	Ratio	Lower	Upper
57	100		
41	109.4	77.2	115.8
43	80.5	173.8	260.6#
56	65.9	43.8	65.6#



#30
Cyclohexane
Concen: 0.082 ppbv
RT: 7.13 min Scan# 1351
Delta R.T.: -0.00 min
Lab File: VL036805.D
Acq: 13 Apr 2021 16:18

Tgt Ion:	84	Resp:	9804
Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	171.4	75.3	112.9#

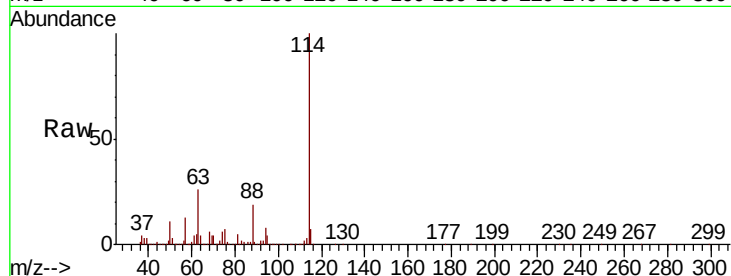




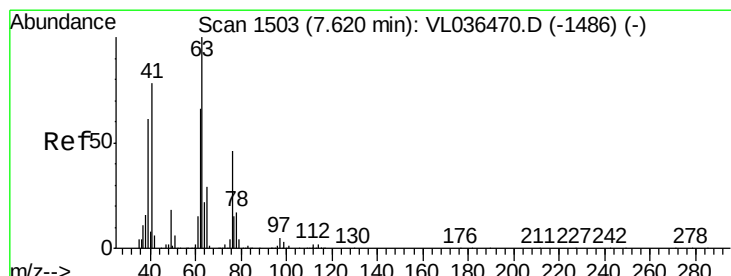
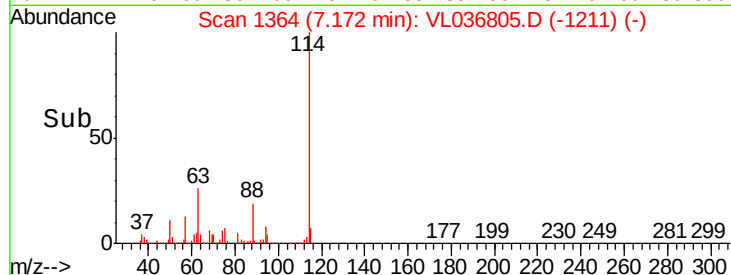
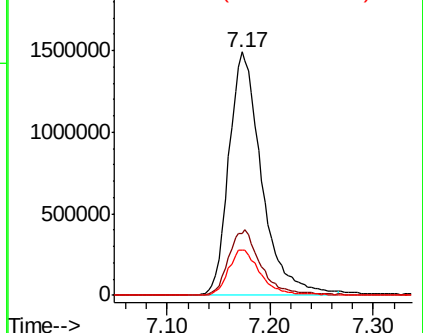
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 13 Apr 2021 16:18

Tot Ion: 114 Resp: 3309196

Ion	Ratio	Lower	Upper
114	100		
63	26.8	22.4	33.6
88	18.6	15.4	23.0



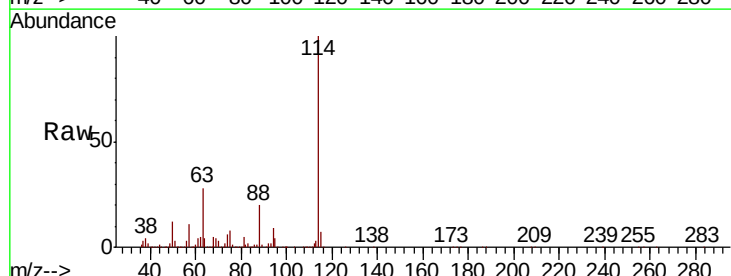
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



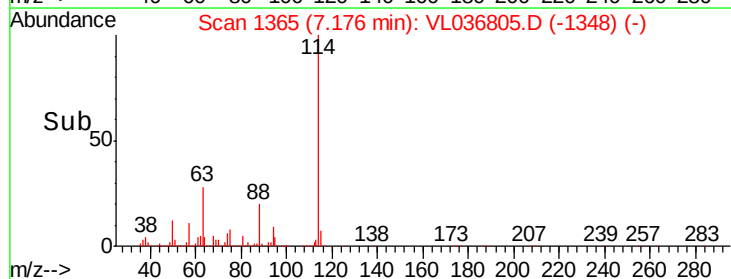
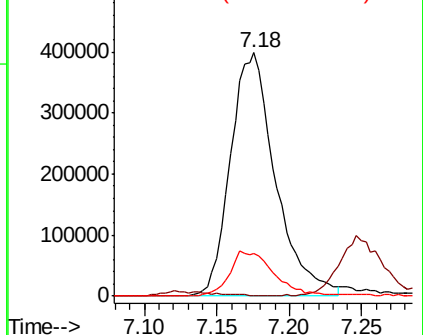
#39
 1,2-Dichloropropane
 Concen: 6.882 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T.: -0.44 min
 Lab File: VL036805.D
 Acq: 13 Apr 2021 16:18

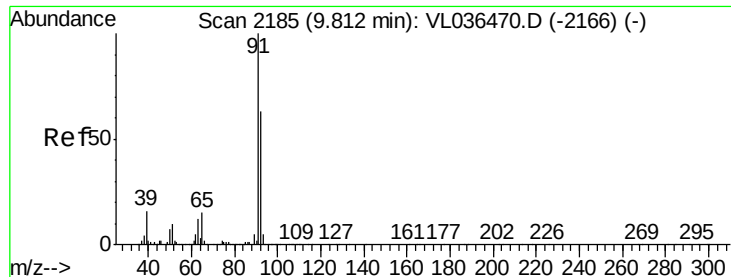
Tgt Ion: 63 Resp: 851984

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	17.6	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: 0.043 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

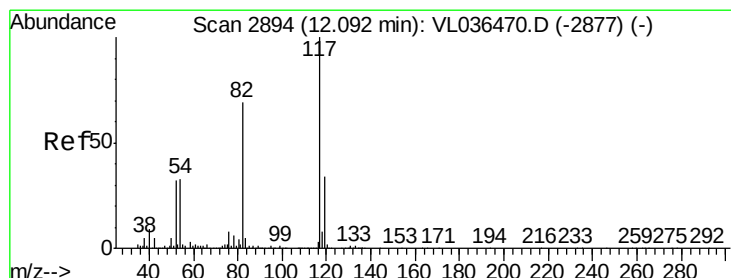
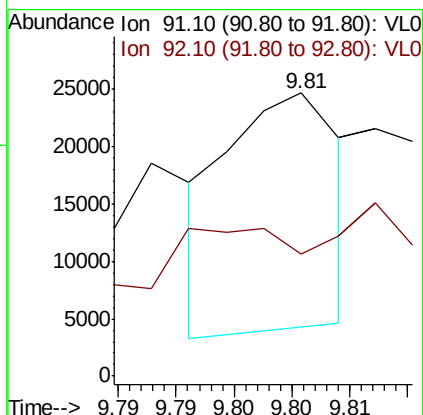
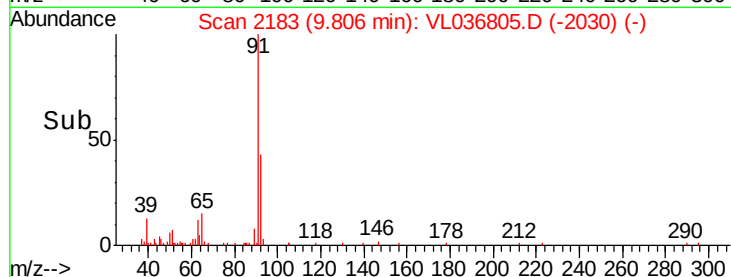
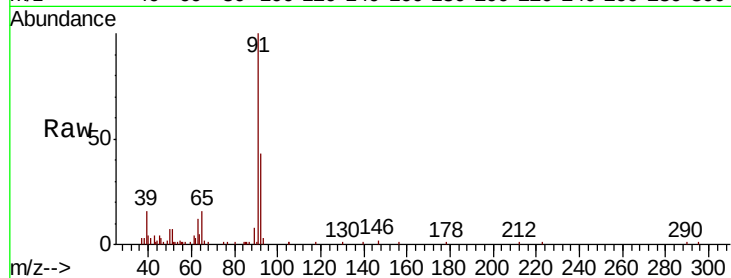
Acq: 13 Apr 2021 16:18

Tot Ion: 91 Resp: 13980

Ion Ratio Lower Upper

91 100

92 0.0 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: VL036805.D

Acq: 13 Apr 2021 16:18

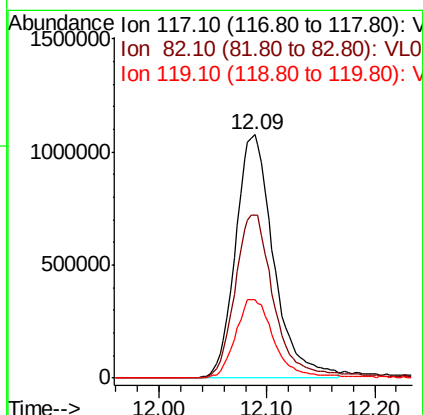
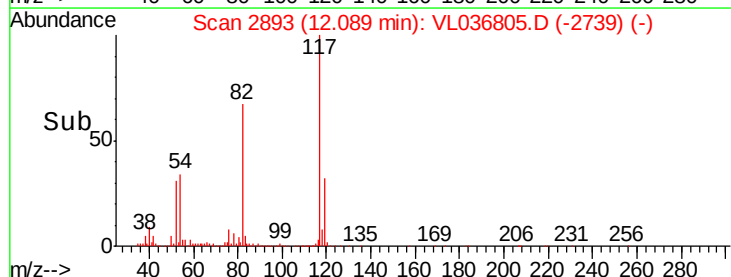
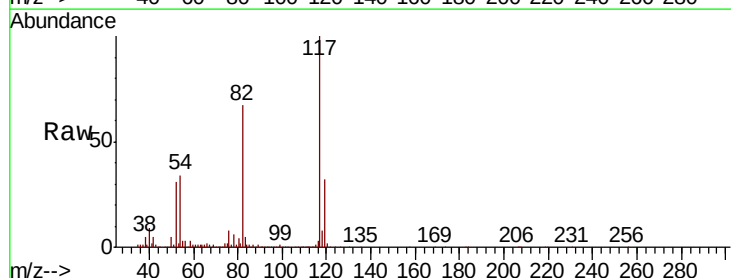
Tgt Ion: 117 Resp: 2647996

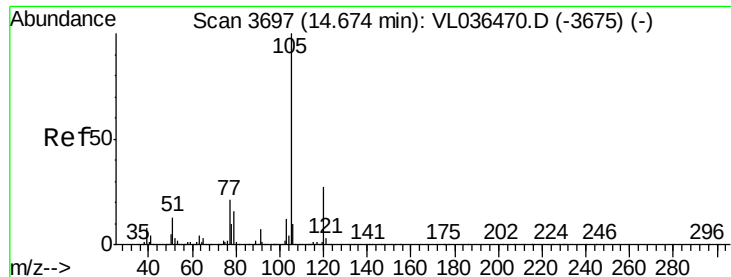
Ion Ratio Lower Upper

117 100

82 70.6 57.4 86.0

119 33.6 47.4 71.0#





#62

Isopropylbenzene

Concen: 1.421 ppbv

RT: 14.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

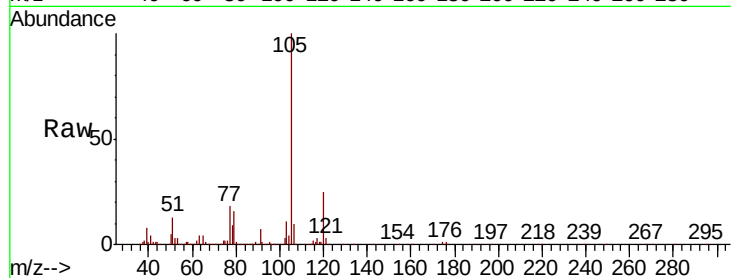
Acq: 13 Apr 2021 16:18

Tot Ion: 105 Resp: 621703

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.67

250000

200000

150000

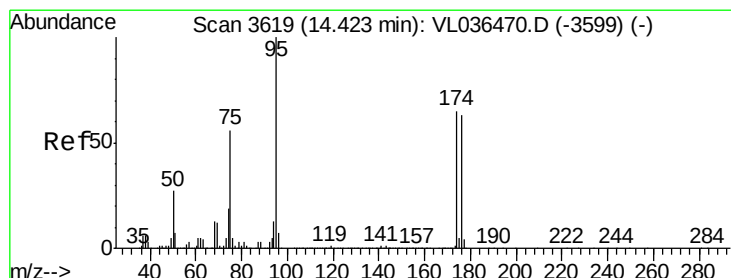
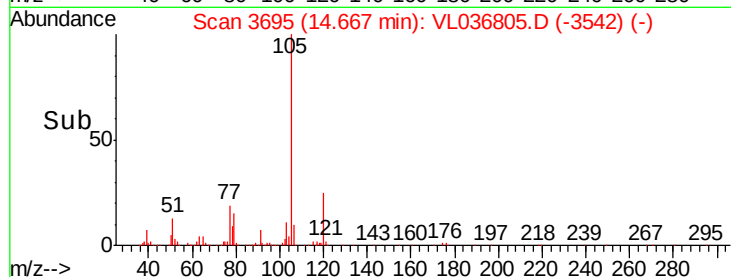
100000

50000

0

Time-->

14.60 14.65 14.70 14.75



#68

1-Bromo-4-Fluorobenzene

Concen: 8.830 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL036805.D

Acq: 13 Apr 2021 16:18

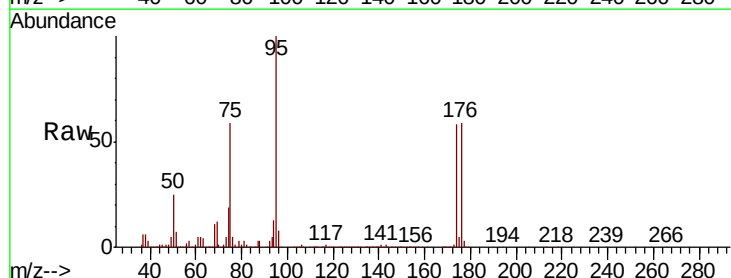
Tgt Ion: 95 Resp: 1863535

Ion Ratio Lower Upper

95 100

174 65.7 51.0 76.6

175 4.8 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

1000000

800000

600000

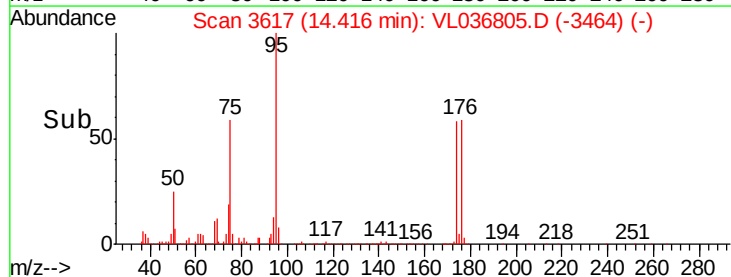
400000

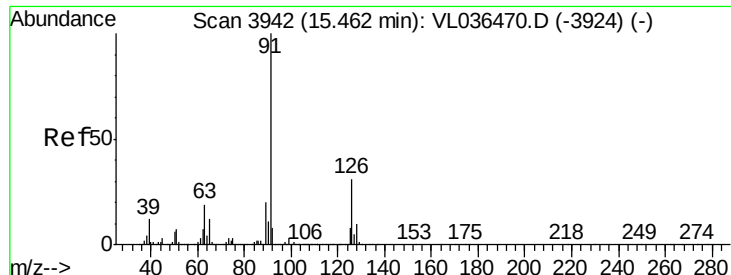
200000

0

Time-->

14.30 14.40 14.50





#71
 2-Chlorotoluene
 Concen: 0.074 ppbv
 RT: 15.31
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 10:18

Tot Ion	Ratio	Lower	Upper
91	100		
126	14.1	12.1	48.5

