

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035063.D
 Acq On : 20 May 2020 3:28
 Operator : SY/AP
 Sample : L2683-08DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 20 04:50:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1149661	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	2615381	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2498832	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2110662	10.44	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

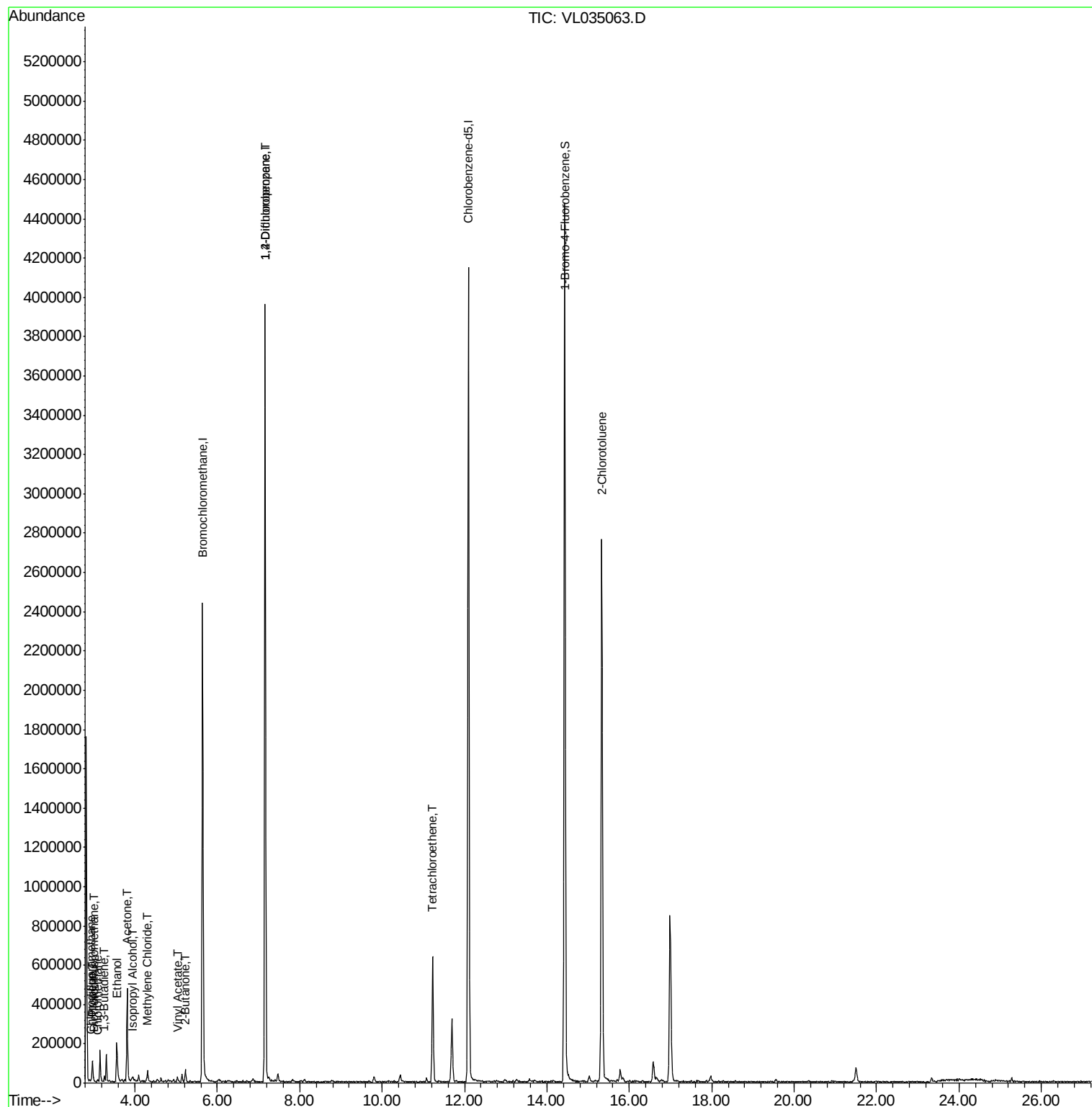
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	10657	0.065	ppbv	98
3) Chlorodifluoromethane	2.93	51	10985	0.084	ppbv #	87
4) Chloromethane	3.09	50	5031	0.067	ppbv #	79
9) Propene	2.97	41	24417	0.429	ppbv	84
13) Ethanol	3.56	45	201132	10.701	ppbv	98
15) Acetone	3.81	43	440760	2.900	ppbv	97
16) 1,3-Butadiene	3.26	39	4776	0.073	ppbv #	55
19) Isopropyl Alcohol	3.94	45	14032	0.138	ppbv #	94
20) Methylene Chloride	4.30	84	11439	0.227	ppbv	86
23) Vinyl Acetate	5.03	43	15284	0.079	ppbv #	87
34) 2-Butanone	5.22	43	42235	0.260	ppbv #	69
39) 1,2-Dichloropropane	7.16	63	718766	8.315	ppbv #	25
52) Tetrachloroethene	11.23	164	152135	1.984	ppbv	96
71) 2-Chlorotoluene	15.33	91	668048	2.210	ppbv #	45

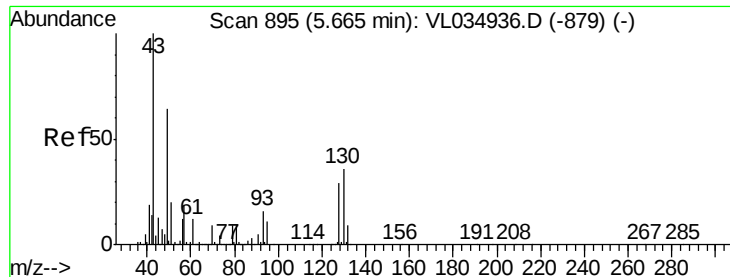
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035063.D

Acq: 20 May 2020 3:28

Instrument :

MSVOA_L

ClientSampleId :

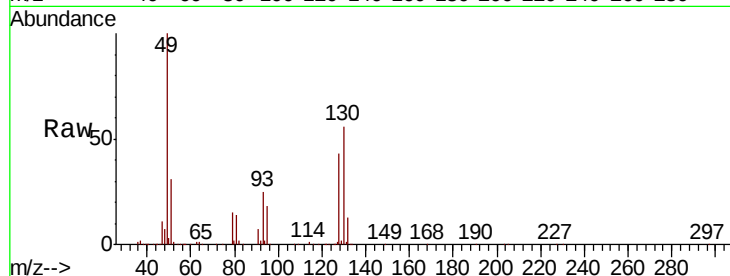
Tot Ion: 49 Resp: 1149661

Ion Ratio Lower Upper

49 100

128 45.7 22.1 66.5

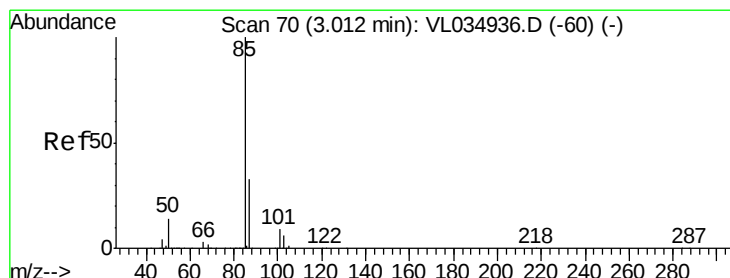
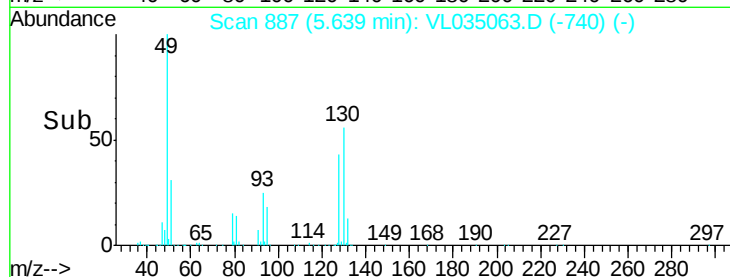
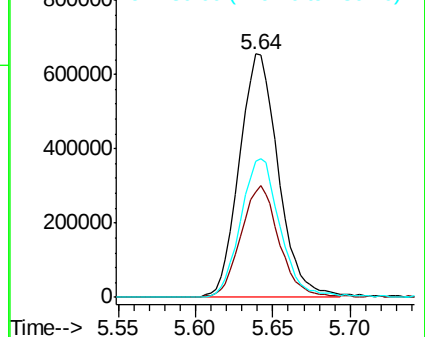
130 58.7 29.1 87.3



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: 0.065 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035063.D

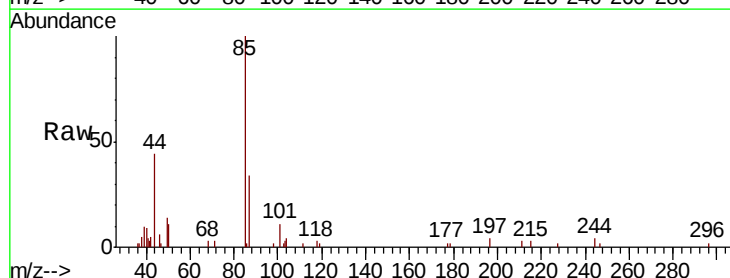
Acq: 20 May 2020 3:28

Tgt Ion: 85 Resp: 10657

Ion Ratio Lower Upper

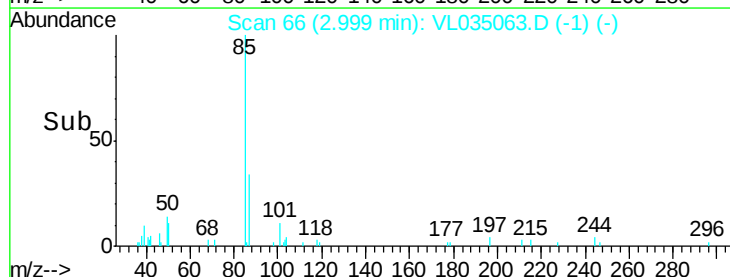
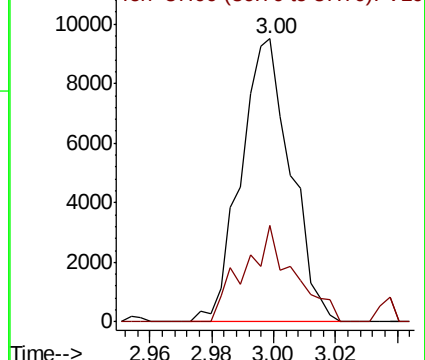
85 100

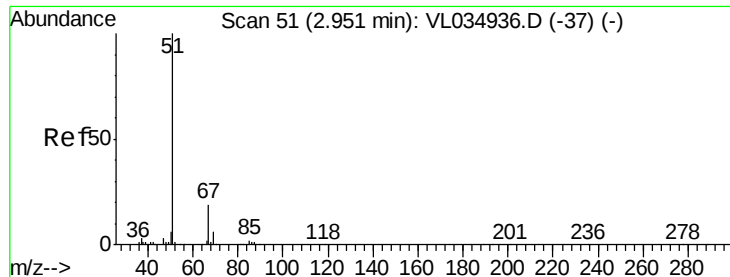
87 33.9 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.084 ppbv

RT: 2.93 min Scan# 45

Delta R.T. -0.02 min

Lab File: VL035063.D

Acq: 20 May 2020 3:28

Instrument :

MSVOA_L

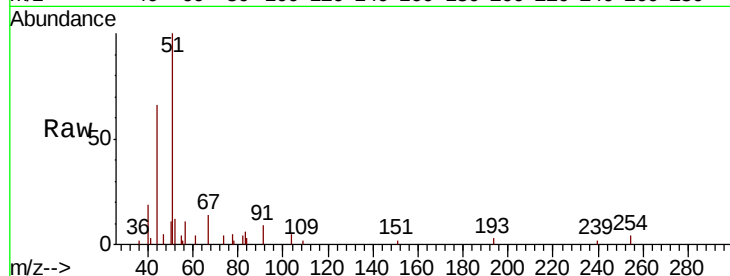
ClientSampleId :

Tot Ion: 51 Resp: 10985

Ion Ratio Lower Upper

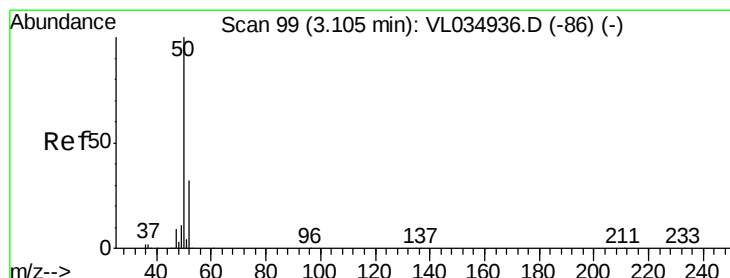
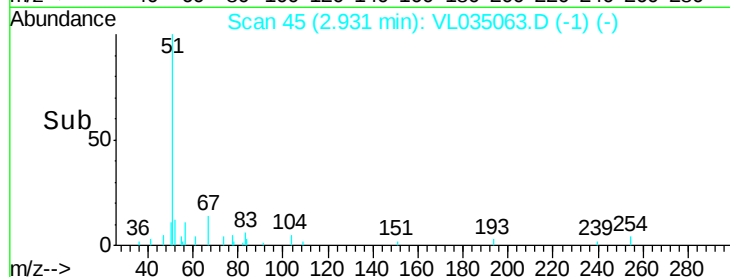
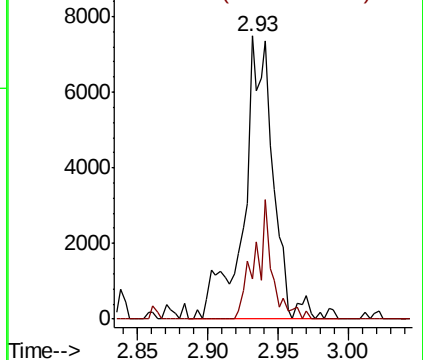
51 100

67 24.5 15.0 22.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.067 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL035063.D

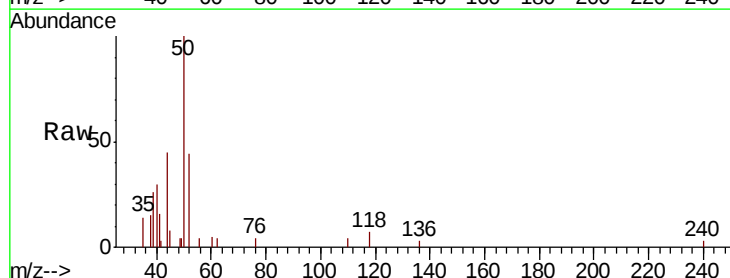
Acq: 20 May 2020 3:28

Tgt Ion: 50 Resp: 5031

Ion Ratio Lower Upper

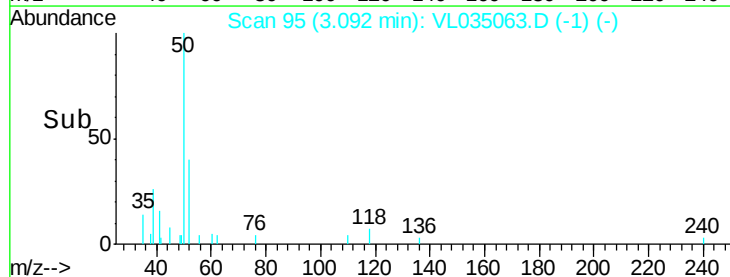
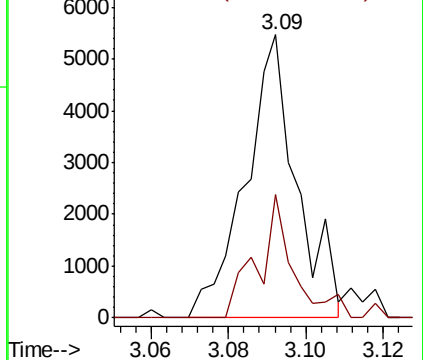
50 100

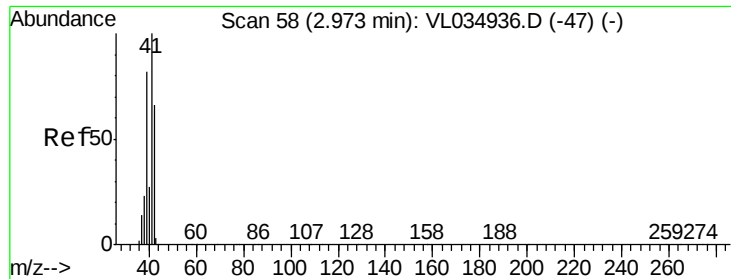
52 43.7 25.4 38.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.429 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL035063.D

Acq: 20 May 2020 3:28

Instrument :

MSVOA_L

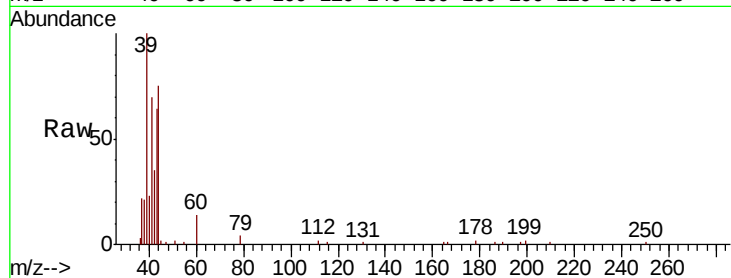
ClientSampleId :

Tot Ion: 41 Resp: 24417

Ion Ratio Lower Upper

41 100

42 55.2 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

20000

15000

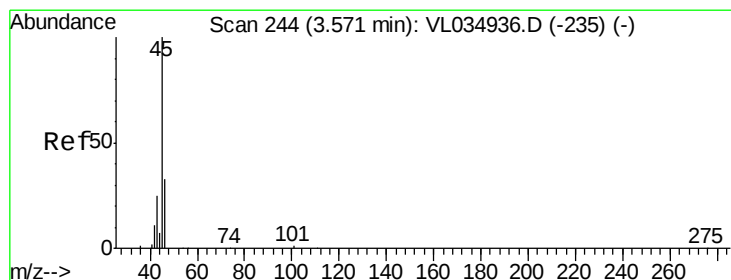
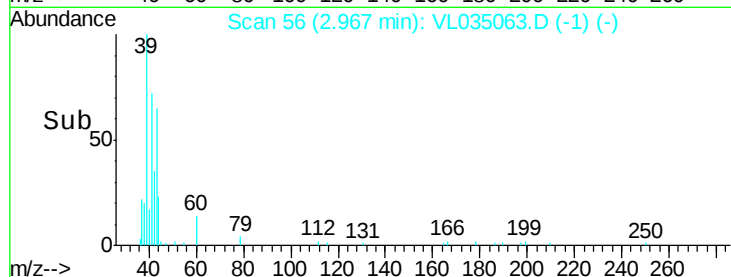
10000

5000

0

2.95 2.97 3.00

Time-->



#13

Ethanol

Concen: 10.701 ppbv

RT: 3.56 min Scan# 240

Delta R.T. -0.01 min

Lab File: VL035063.D

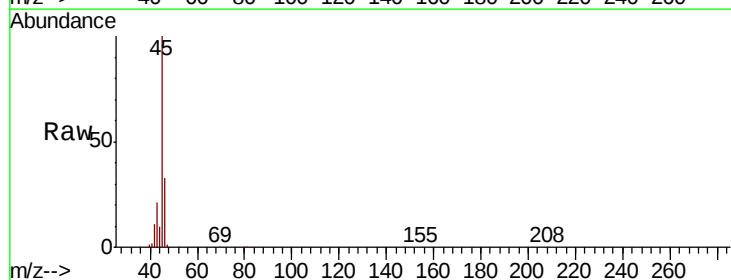
Acq: 20 May 2020 3:28

Tgt Ion: 45 Resp: 201132

Ion Ratio Lower Upper

45 100

46 36.8 14.3 57.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

120000

100000

80000

60000

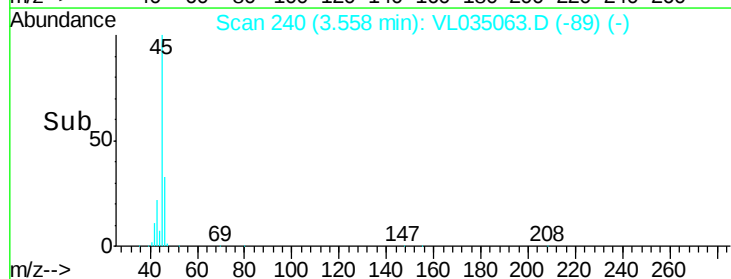
40000

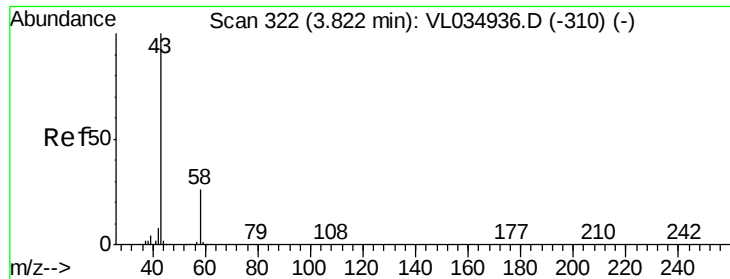
20000

0

3.50 3.55 3.56 3.60

Time-->





#15

Acetone

Concen: 2.900 ppbv

RT: 3.81 min Scan# 318

Delta R.T. -0.01 min

Lab File: VL035063.D

Acq: 20 May 2020 3:28

Instrument :

MSVOA_L

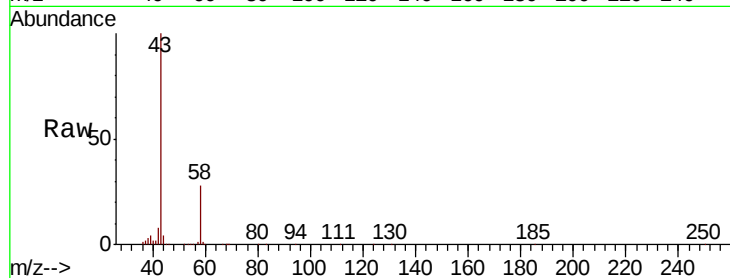
ClientSampleId :

Tot Ion: 43 Resp: 440760

Ion Ratio Lower Upper

43 100

58 28.5 21.7 32.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.81

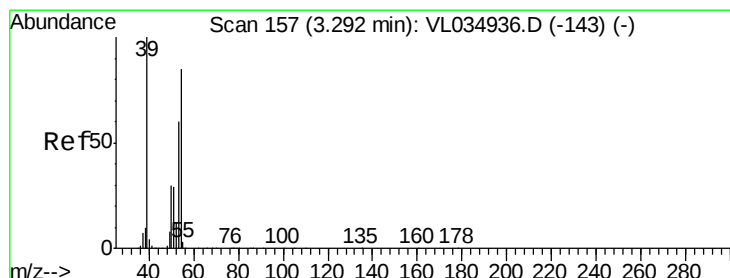
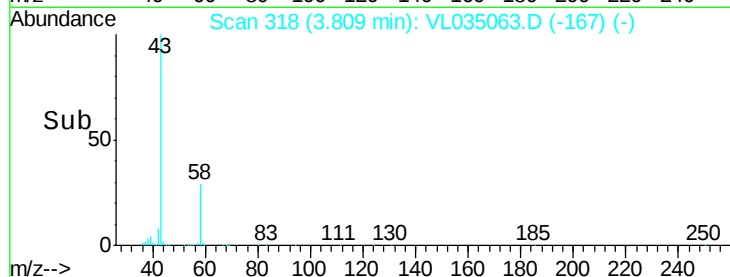
300000

200000

100000

0

Time--> 3.75 3.80 3.85



#16

1,3-Butadiene

Concen: 0.073 ppbv

RT: 3.26 min Scan# 147

Delta R.T. -0.03 min

Lab File: VL035063.D

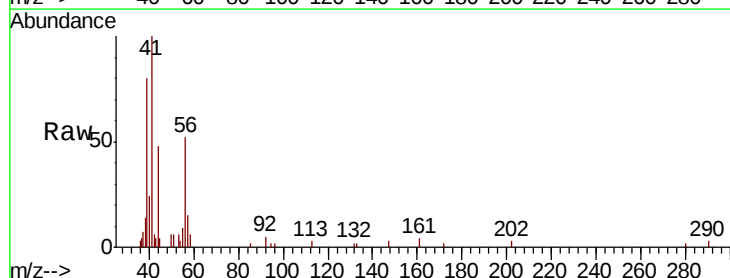
Acq: 20 May 2020 3:28

Tgt Ion: 39 Resp: 4776

Ion Ratio Lower Upper

39 100

54 42.3 66.6 100.0#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

12000

10000

8000

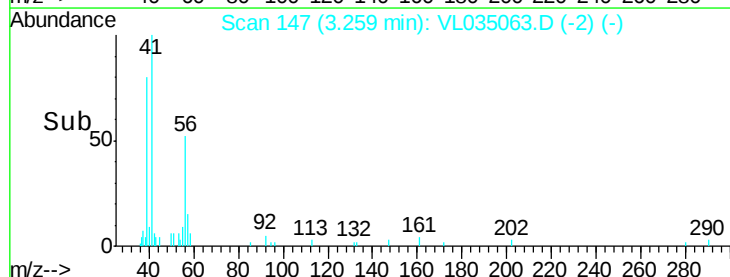
6000

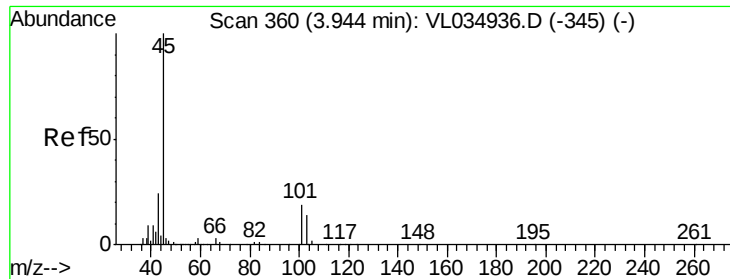
4000

2000

0

Time--> 3.26 3.28





#19

Isopropyl Alcohol

Concen: 0.138 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL035063.D

Acq: 20 May 2020 3:28

Instrument :

MSVOA_L

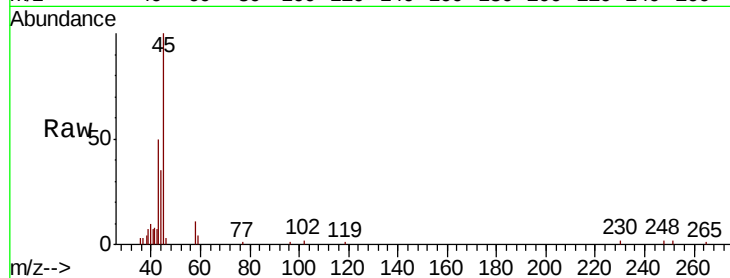
ClientSampleId :

Tot Ion: 45 Resp: 14032

Ion Ratio Lower Upper

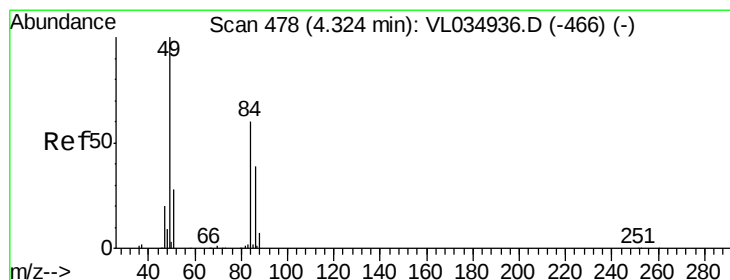
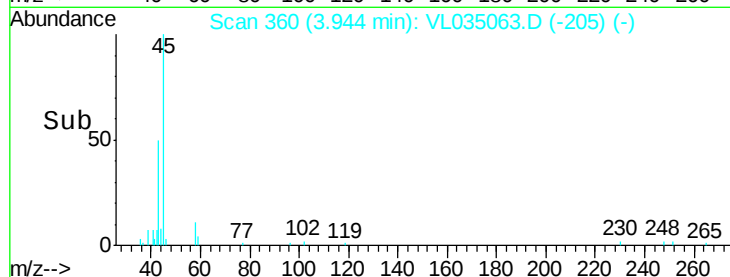
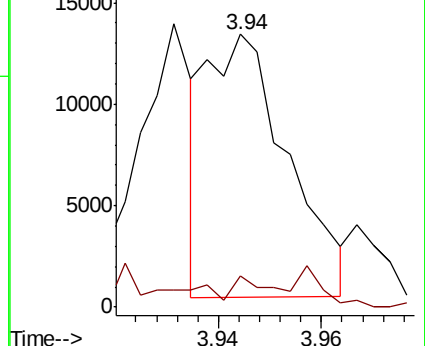
45 100

58 0.0 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.227 ppbv

RT: 4.30 min Scan# 472

Delta R.T. -0.02 min

Lab File: VL035063.D

Acq: 20 May 2020 3:28

Tgt Ion: 84 Resp: 11439

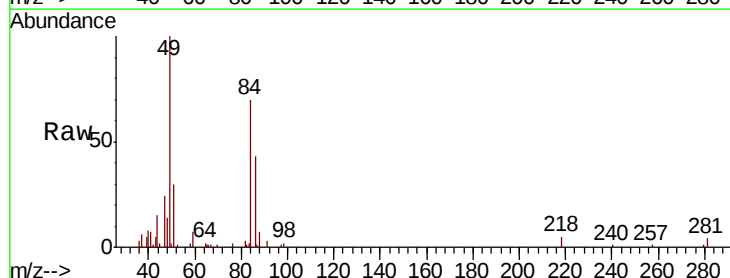
Ion Ratio Lower Upper

84 100

49 139.7 132.5 198.7

51 41.0 38.4 57.6

86 63.0 51.2 76.8

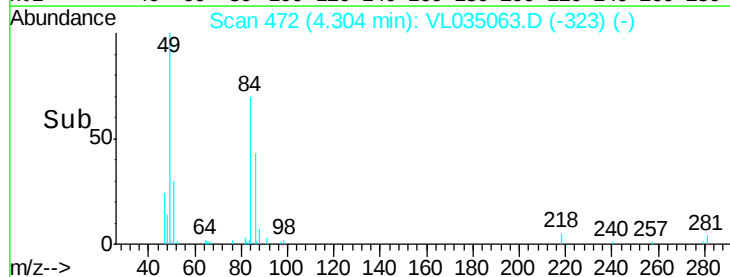
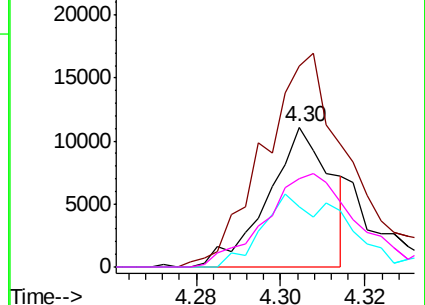


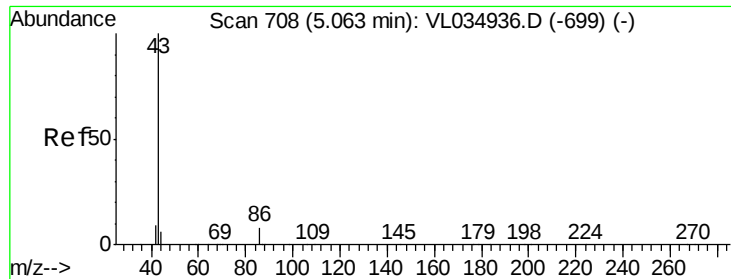
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#23

Vinyl Acetate

Concen: 0.079 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.03 min

Lab File: VL035063.D

Acq: 20 May 2020 3:28

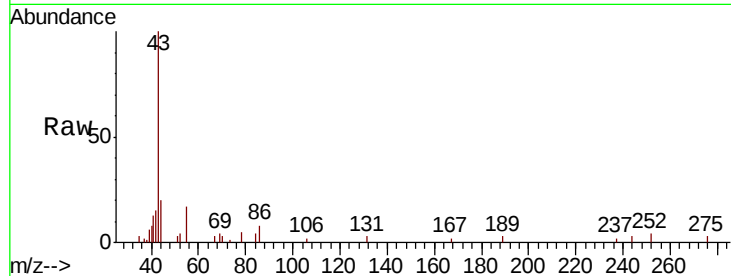
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 15284

Ion	Ratio	Lower	Upper
43	100		
86	10.7	5.5	8.3#
42	17.6	8.0	12.0#
44	4.5	4.5	6.7#

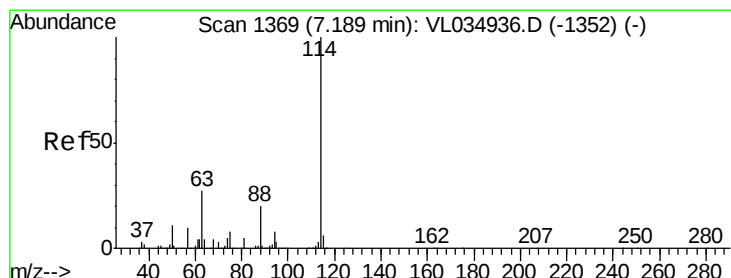
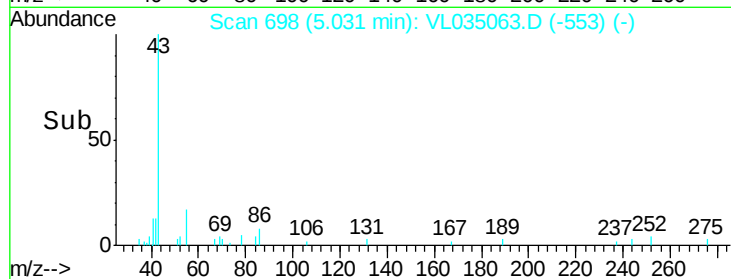
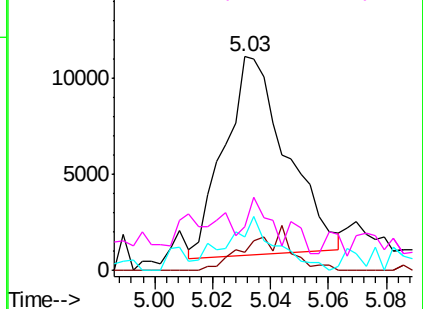


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

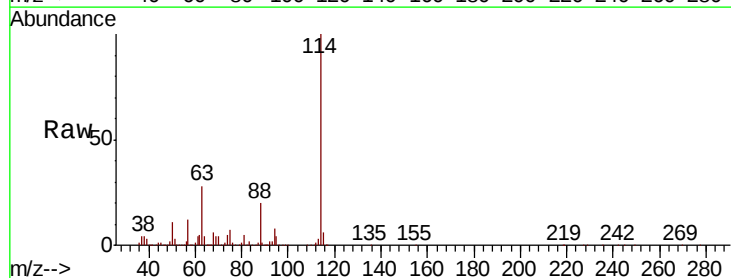
Delta R.T. -0.03 min

Lab File: VL035063.D

Acq: 20 May 2020 3:28

Tgt Ion: 114 Resp: 2615381

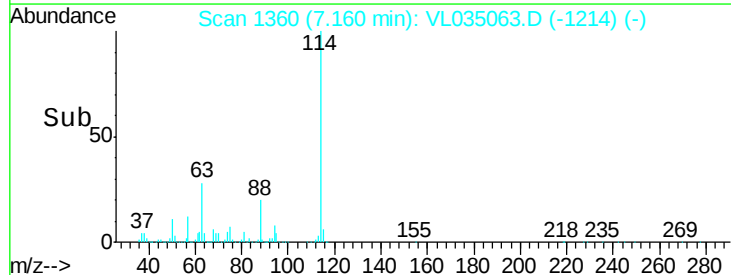
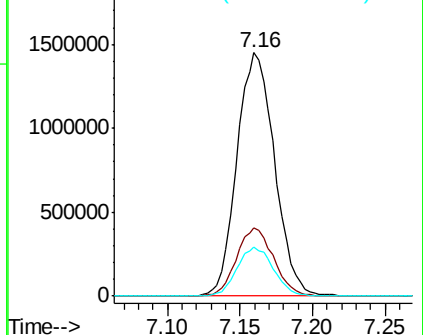
Ion	Ratio	Lower	Upper
114	100		
63	27.6	22.2	33.4
88	19.6	15.5	23.3

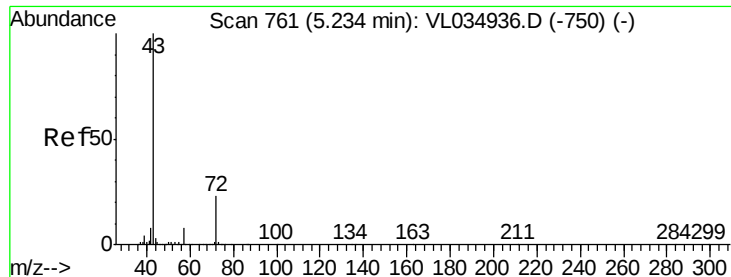


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

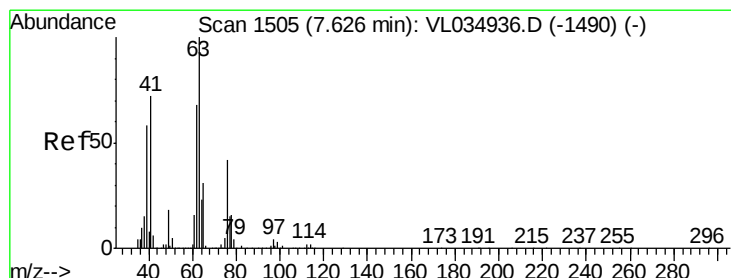
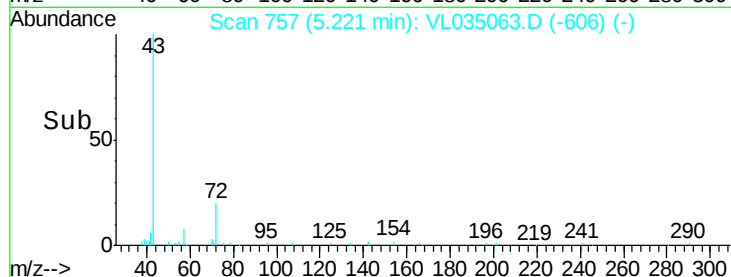
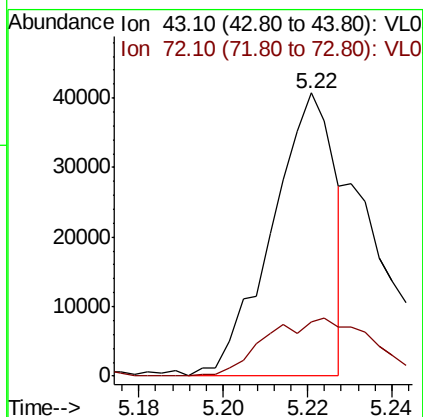
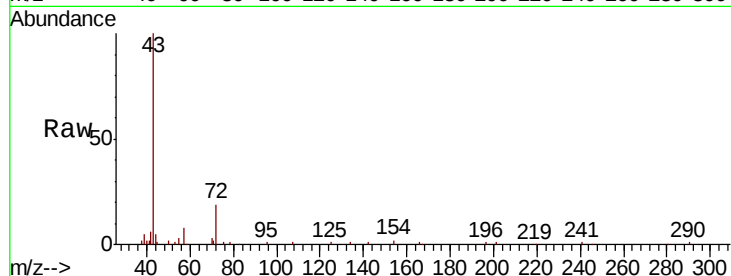




#34
2-Butanone
Concen: 0.260 ppbv
RT: 5.22 min Scan# 757
Delta R.T. -0.01 min
Lab File: VL035063.D
Acq: 20 May 2020 3:28

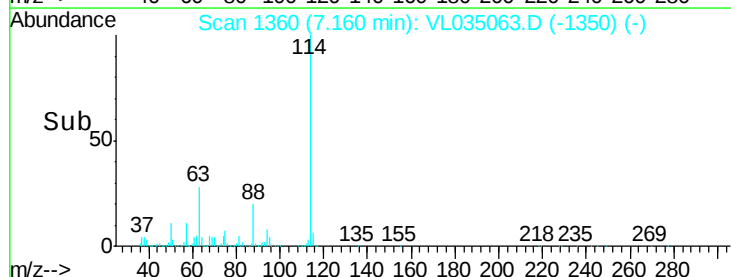
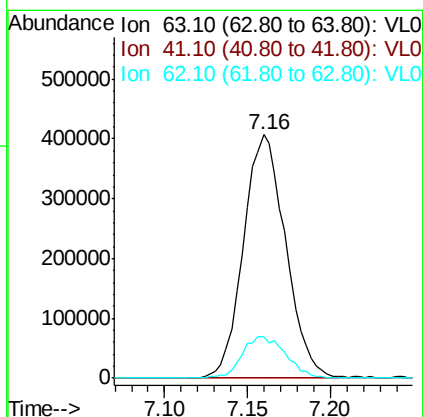
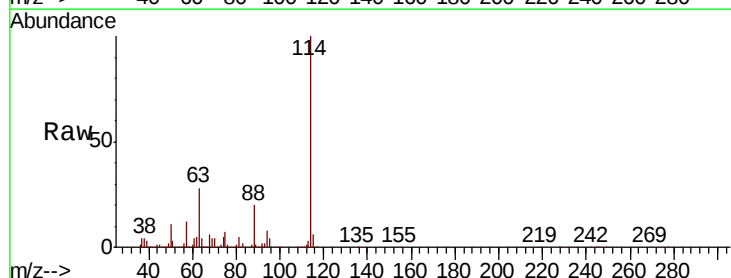
Instrument :
MSVOA_L
ClientSampleId :

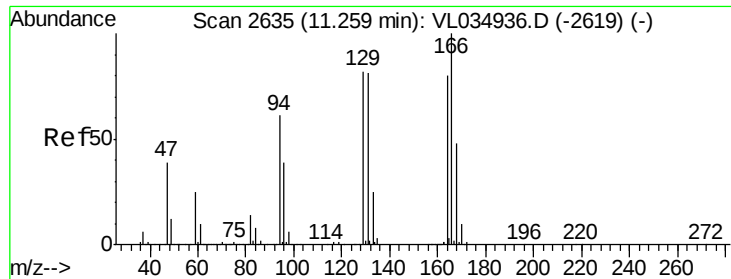
Tot Ion: 43 Resp: 42235
Ion Ratio Lower Upper
43 100
72 37.2 18.0 27.0#



#39
1,2-Dichloropropane
Concen: 8.315 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.47 min
Lab File: VL035063.D
Acq: 20 May 2020 3:28

Tgt Ion: 63 Resp: 718766
Ion Ratio Lower Upper
63 100
41 0.0 57.8 86.8#
62 17.0 54.2 81.2#

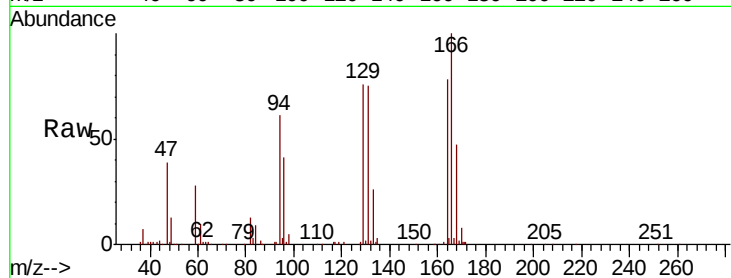




#52
Tetrachloroethene
Concen: 1.984 ppbv
RT: 11.23 min Scan# 2625
Delta R.T. -0.03 min
Lab File: VL035063.D
Acq: 20 May 2020 3:28

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
166	126.7	100.7	151.1
129	96.8	83.0	124.4
131	95.9	81.0	121.4



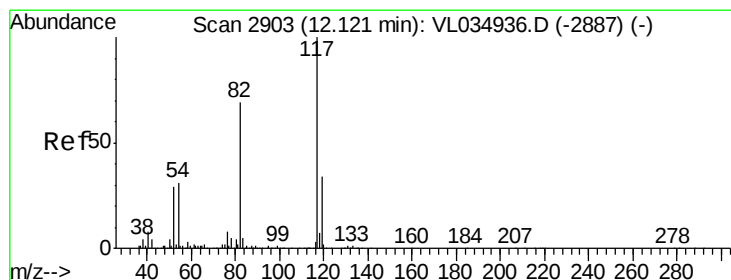
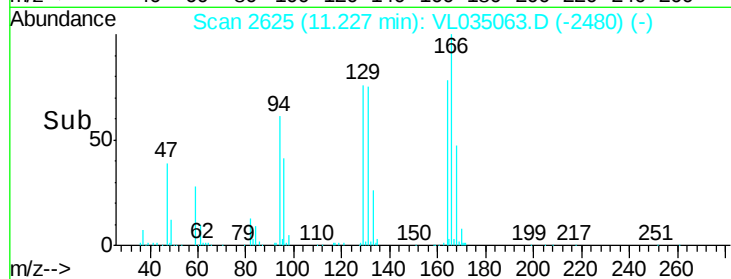
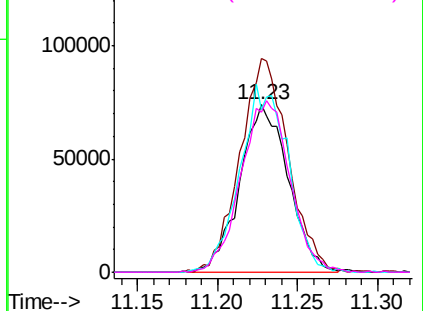
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

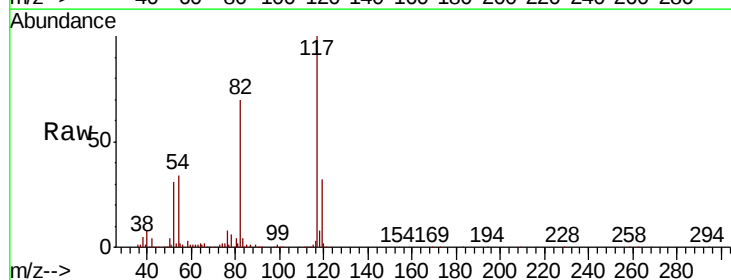
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.03 min
Lab File: VL035063.D
Acq: 20 May 2020 3:28

Tgt Ion	Ratio	Lower	Upper
117	100		
82	69.9	53.1	79.7
119	33.2	26.7	40.1

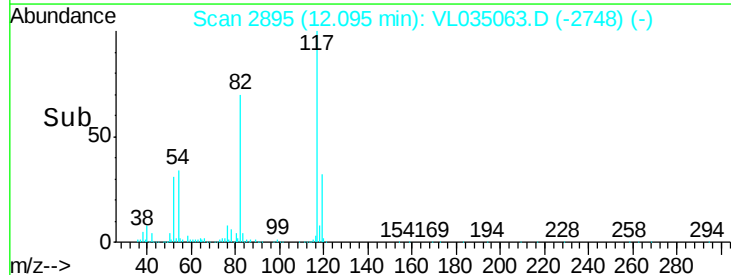
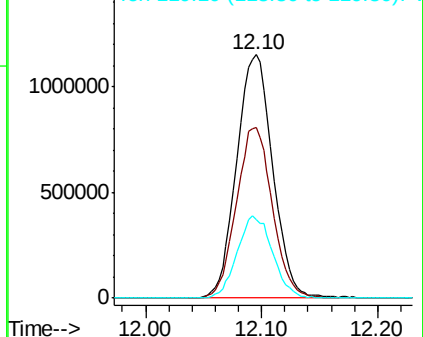


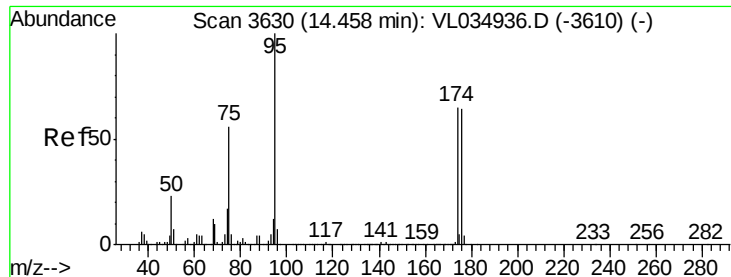
Abundance

Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

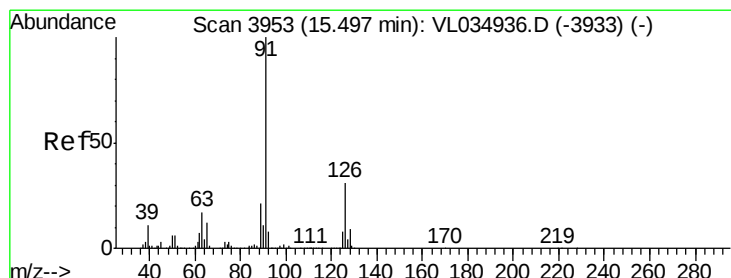
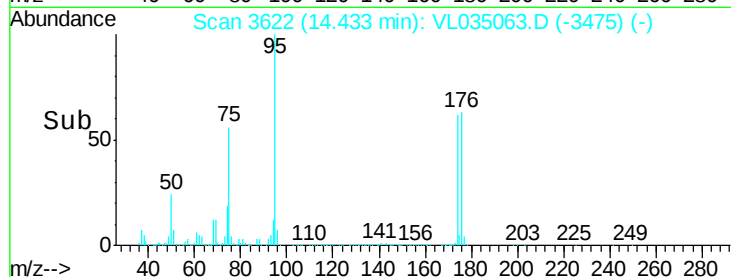
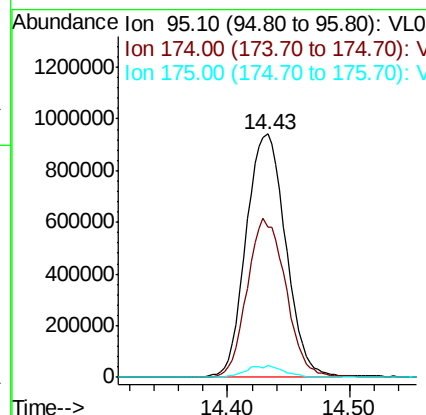
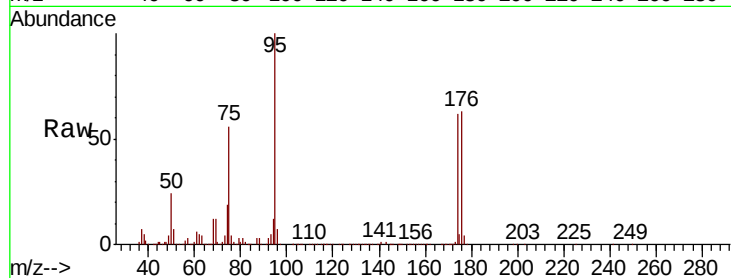




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.435 ppbv
 RT: 14.43 min Scan# 3622
 Delta R.T. -0.03 min
 Lab File: VL035063.D
 Acq: 20 May 2020 3:28

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2110662
 Ion Ratio Lower Upper
 95 100
 174 64.3 51.5 77.3
 175 4.7 3.8 5.8



#71
 2-Chlorotoluene
 Concen: 2.210 ppbv
 RT: 15.33 min Scan# 3901
 Delta R.T. -0.17 min
 Lab File: VL035063.D
 Acq: 20 May 2020 3:28

Tgt Ion: 91 Resp: 668048
 Ion Ratio Lower Upper
 91 100
 126 0.1 12.0 47.8#

