

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052220\
 Data File : VL035087.D
 Acq On : 22 May 2020 16:43
 Operator : SY/AP
 Sample : L2739-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 22 23:16:06 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	5.65	49	1003169	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2344692	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2234611	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1880091	10.39	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

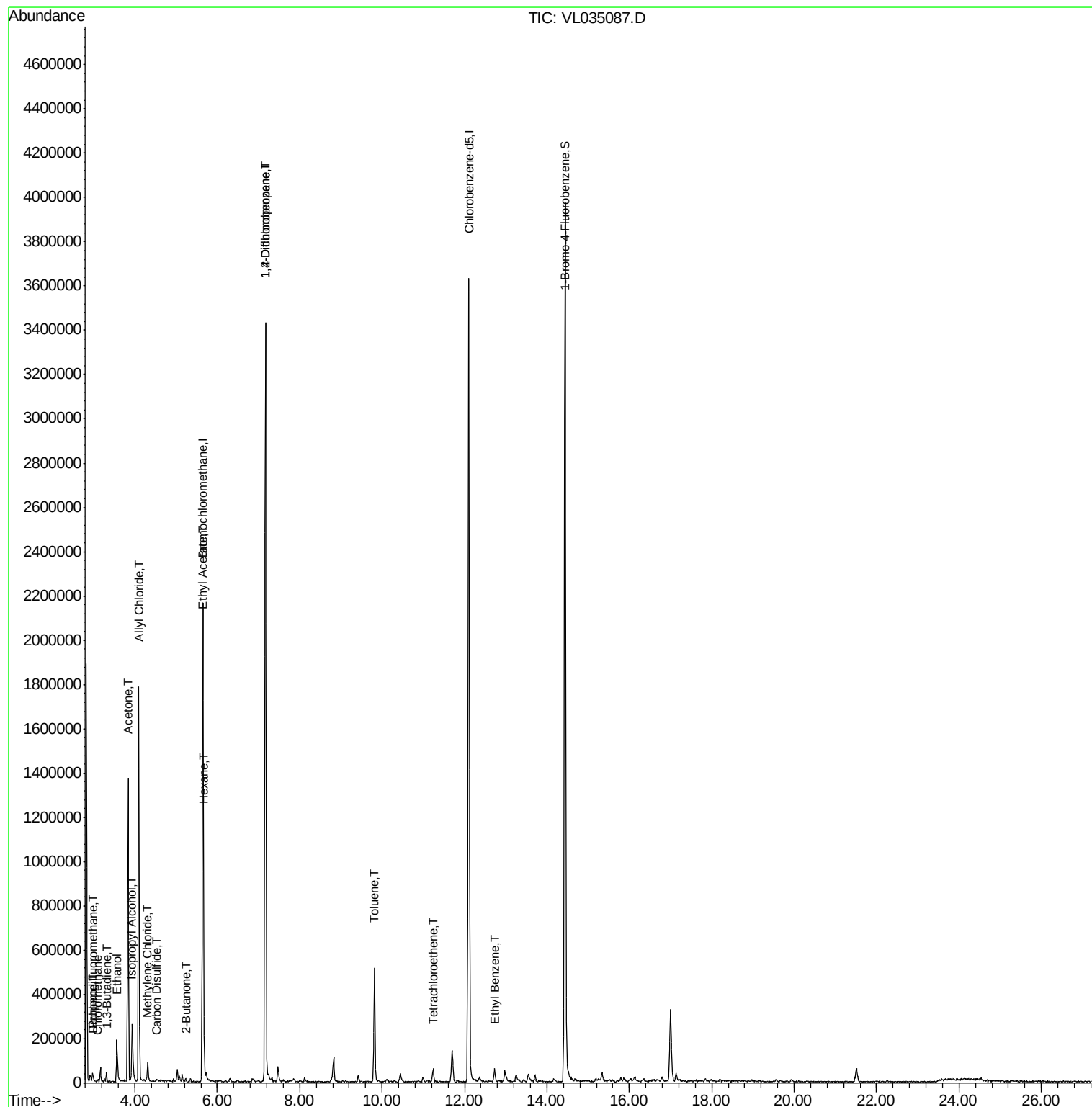
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	8468	0.059 ppbv #	82
4) Chloromethane	3.10	50	2414	0.037 ppbv #	79
9) Propene	2.97	41	6314	0.127 ppbv	85
13) Ethanol	3.56	45	173027	10.550 ppbv	97
15) Acetone	3.83	43	512368	3.863 ppbv #	63
16) 1,3-Butadiene	3.30	39	2037	0.036 ppbv #	20
19) Isopropyl Alcohol	3.93	45	272439	3.080 ppbv #	96
20) Methylene Chloride	4.31	84	23624	0.538 ppbv #	83
21) Allyl Chloride	4.09	41	499138	6.663 ppbv #	51
25) Ethyl Acetate	5.66	43	44018	0.198 ppbv	99
26) Hexane	5.67	57	17274	0.179 ppbv #	1
27) Carbon Disulfide	4.52	76	4003	0.035 ppbv #	1
34) 2-Butanone	5.23	43	17434	0.120 ppbv	97
39) 1,2-Dichloropropane	7.17	63	632628	8.164 ppbv #	25
52) Tetrachloroethene	11.23	164	3975	0.058 ppbv #	43
53) Toluene	9.81	91	385304	1.880 ppbv	96
58) Ethyl Benzene	12.72	91	19862	0.072 ppbv	93

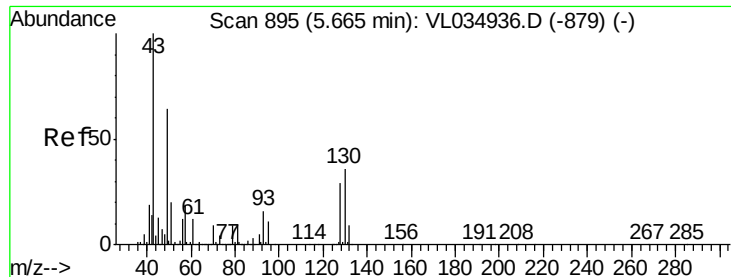
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL035087.D

Acq: 22 May 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

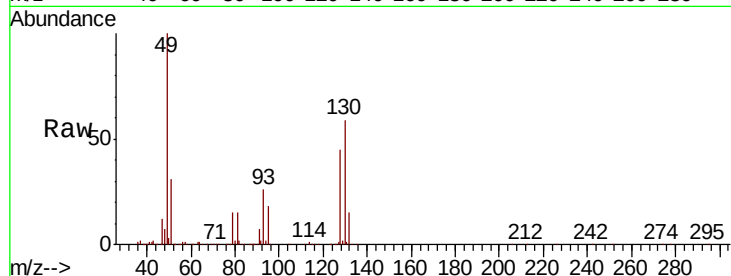
Tot Ion: 49 Resp: 1003169

Ion Ratio Lower Upper

49 100

128 45.9 22.1 66.5

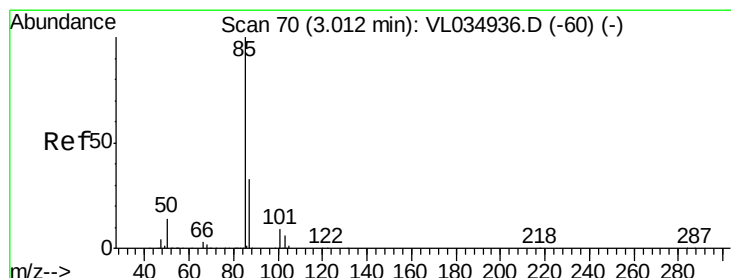
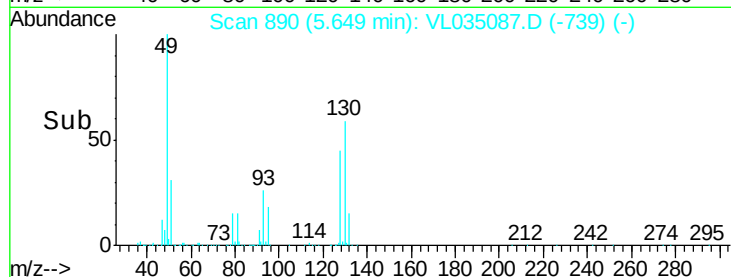
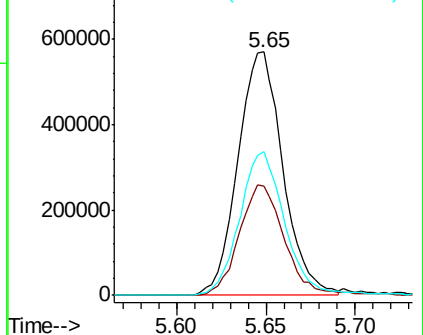
130 59.4 29.1 87.3



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: 0.059 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL035087.D

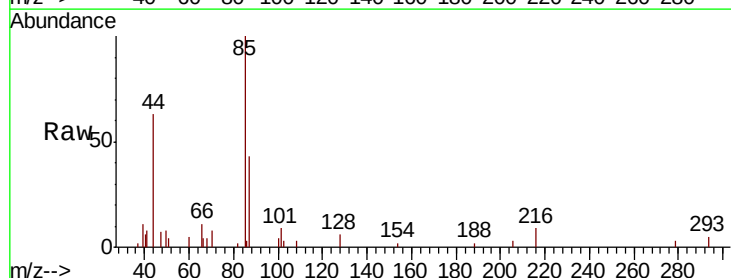
Acq: 22 May 2020 16:43

Tgt Ion: 85 Resp: 8468

Ion Ratio Lower Upper

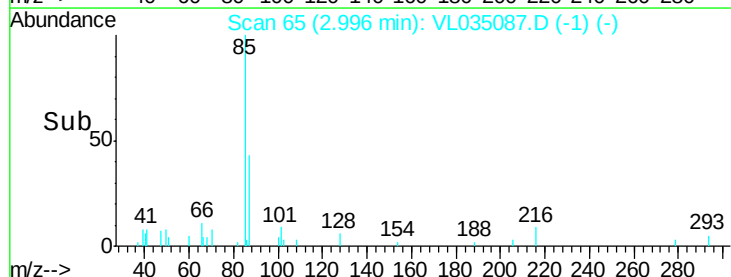
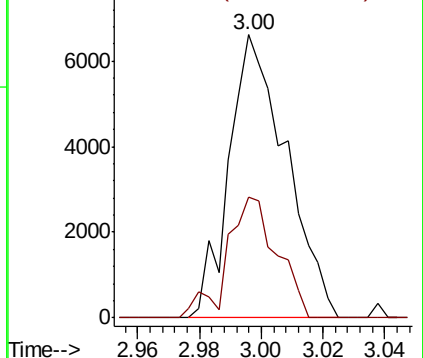
85 100

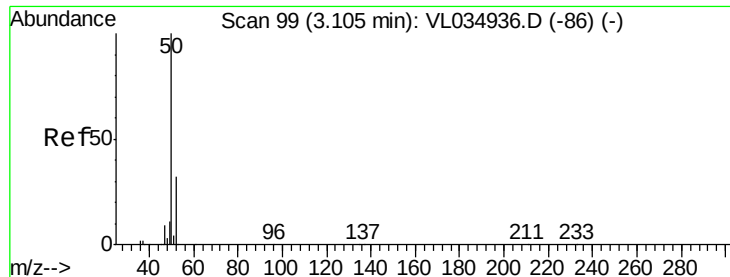
87 42.7 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.037 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.01 min

Lab File: VL035087.D

Acq: 22 May 2020 16:43

Instrument :

MSVOA_L

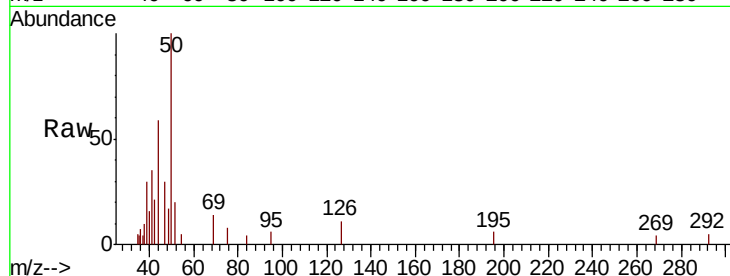
ClientSampleId :

Tot Ion: 50 Resp: 2414

Ion Ratio Lower Upper

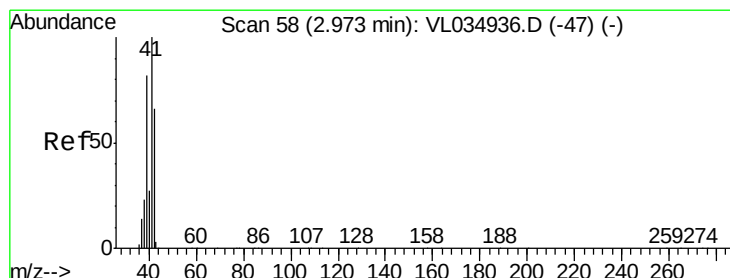
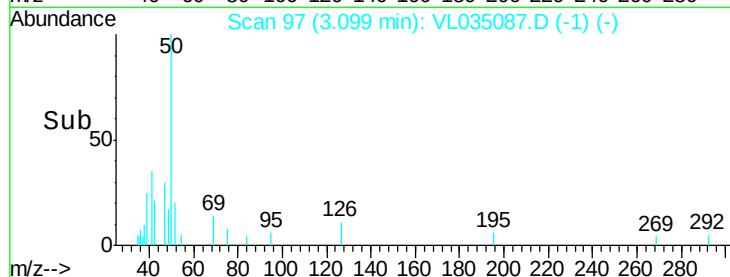
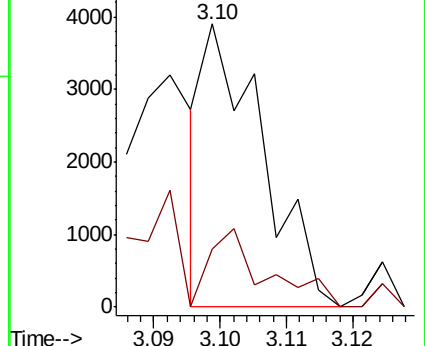
50 100

52 20.3 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: 0.127 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL035087.D

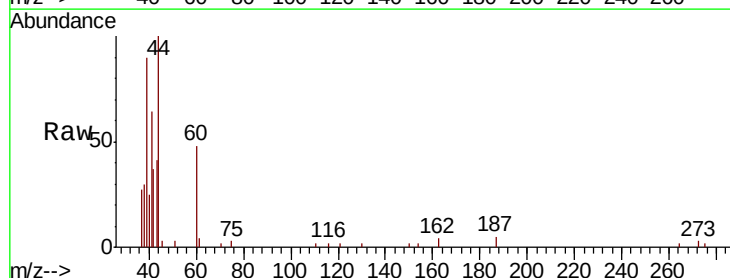
Acq: 22 May 2020 16:43

Tgt Ion: 41 Resp: 6314

Ion Ratio Lower Upper

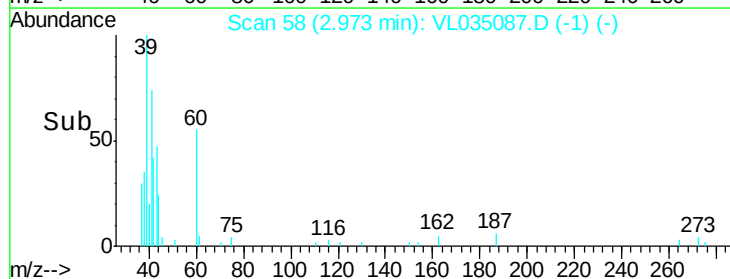
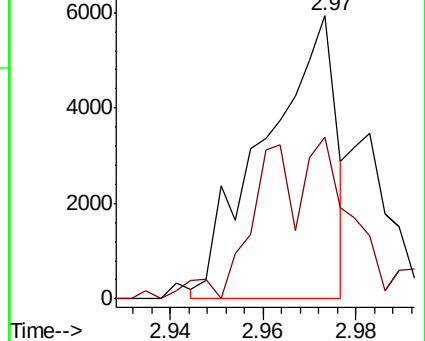
41 100

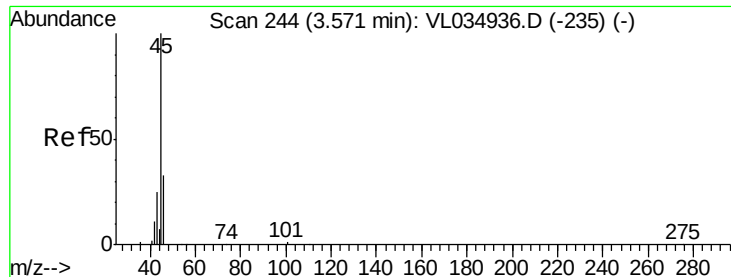
42 80.1 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 10.550 ppbv

RT: 3.56 min Scan# 241

Delta R.T. -0.01 min

Lab File: VL035087.D

Acq: 22 May 2020 16:43

Instrument :

MSVOA_L

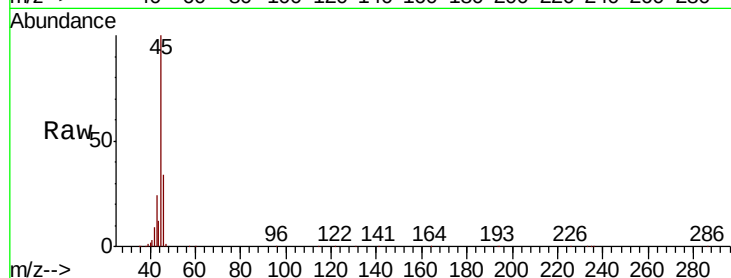
ClientSampled :

Tot Ion: 45 Resp: 173027

Ion Ratio Lower Upper

45 100

46 37.4 14.3 57.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.56

120000

100000

80000

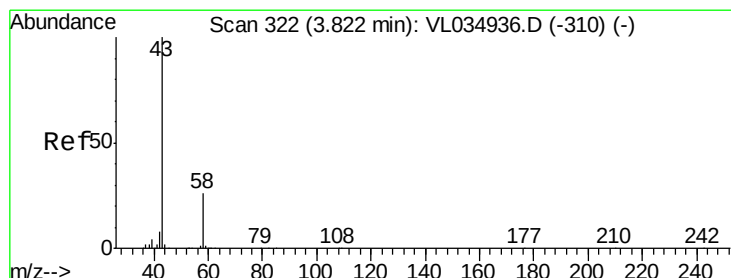
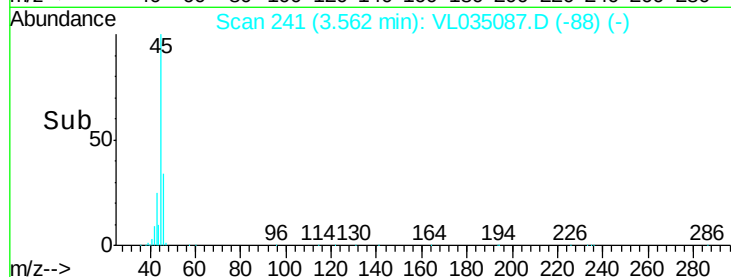
60000

40000

20000

0

Time--> 3.50 3.55 3.60



#15

Acetone

Concen: 3.863 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL035087.D

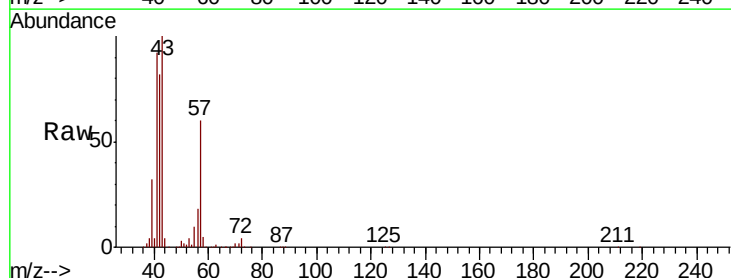
Acq: 22 May 2020 16:43

Tgt Ion: 43 Resp: 512368

Ion Ratio Lower Upper

43 100

58 8.0 21.7 32.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

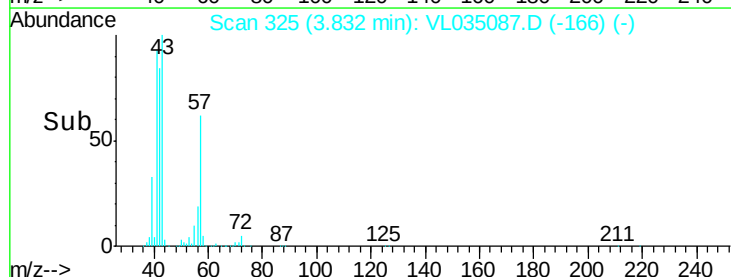
300000

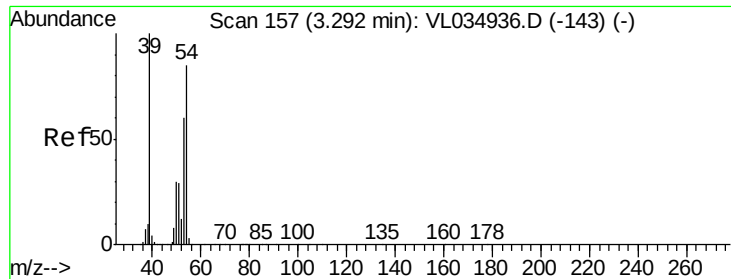
200000

100000

0

Time--> 3.75 3.80 3.85 3.90





#16

1,3-Butadiene

Concen: 0.036 ppbv

RT: 3.30 min Scan# 159

Delta R.T. 0.01 min

Lab File: VL035087.D

Acq: 22 May 2020 16:43

Instrument :

MSVOA_L

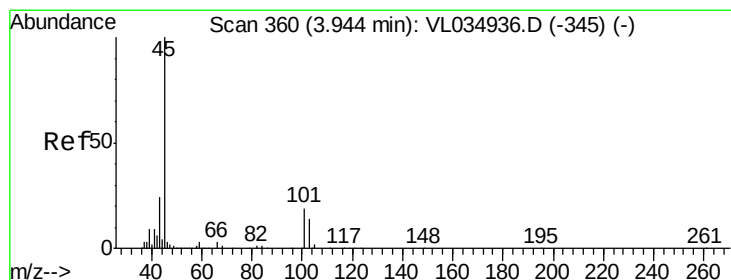
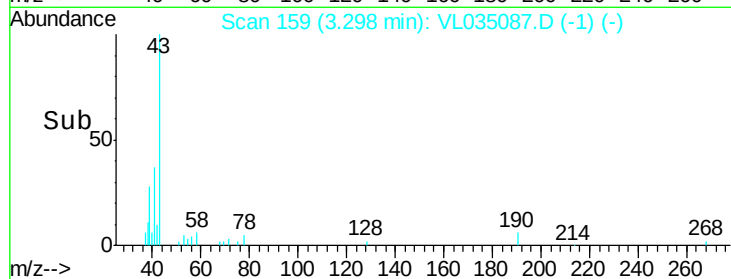
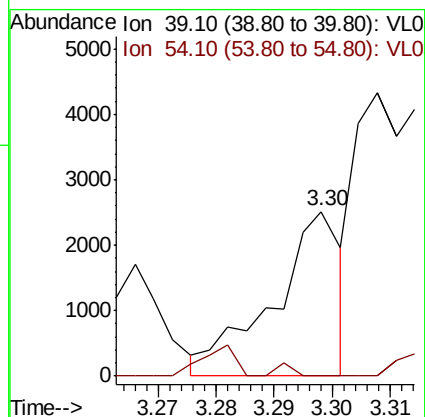
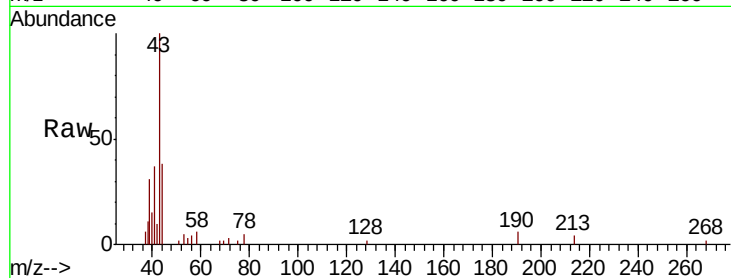
ClientSampleId :

Tot Ion: 39 Resp: 2037

Ion Ratio Lower Upper

39 100

54 11.1 66.6 100.0#



#19

Isopropyl Alcohol

Concen: 3.080 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.01 min

Lab File: VL035087.D

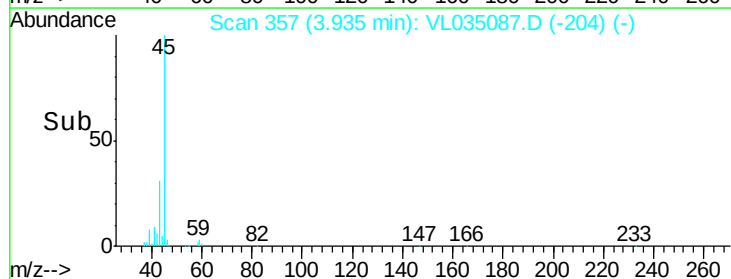
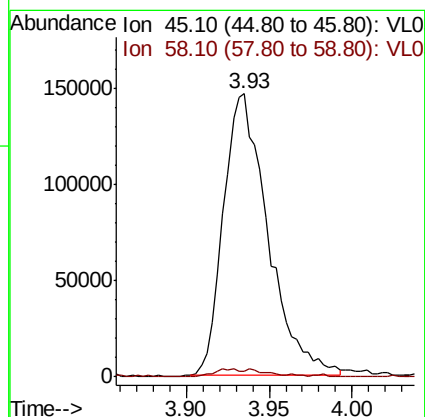
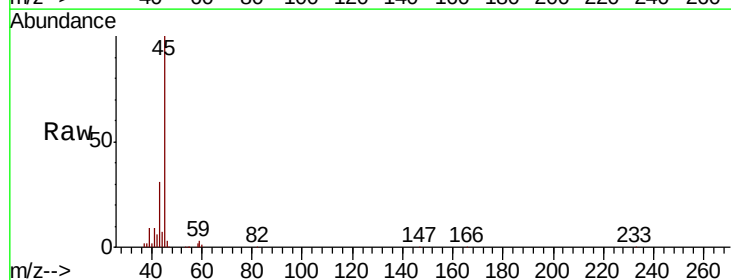
Acq: 22 May 2020 16:43

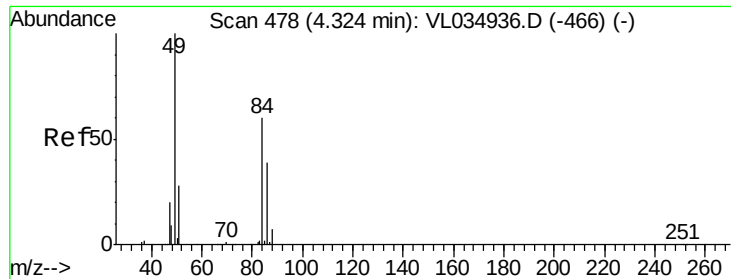
Tgt Ion: 45 Resp: 272439

Ion Ratio Lower Upper

45 100

58 3.5 1.7 2.5#

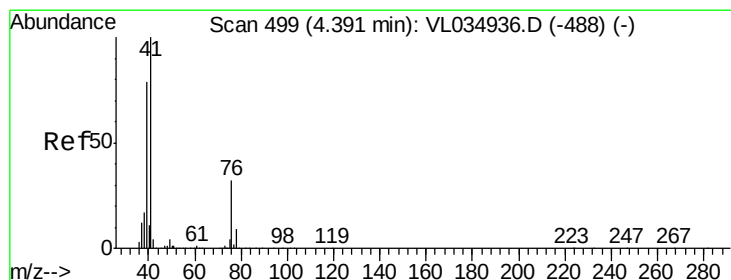
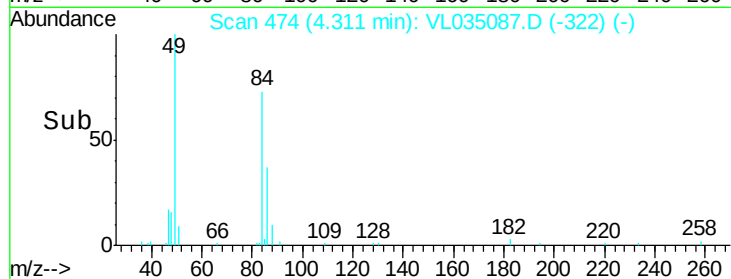
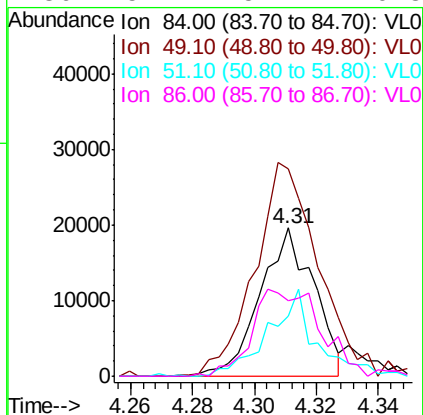
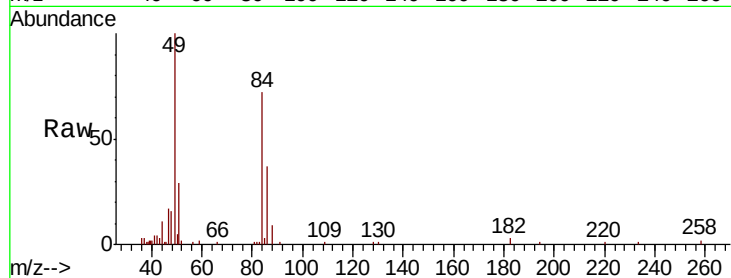




#20
Methylene Chloride
Concen: 0.538 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.01 min
Lab File: VL035087.D
Acq: 22 May 2020 16:43

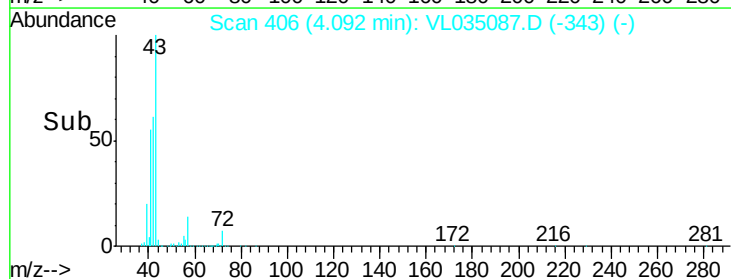
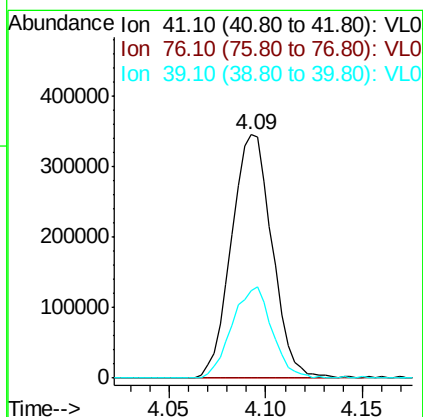
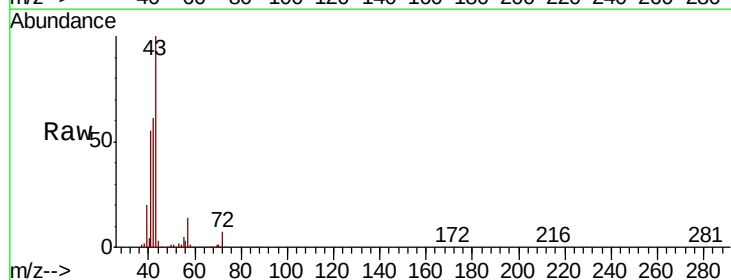
Instrument :
MSVOA_L
ClientSampleId :

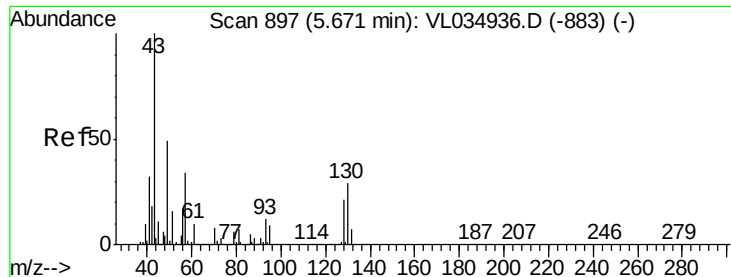
Tot Ion: 84 Resp: 23624
Ion Ratio Lower Upper
84 100
49 138.8 132.5 198.7
51 41.0 38.4 57.6
86 51.1 51.2 76.8#



#21
Allyl Chloride
Concen: 6.663 ppbv
RT: 4.09 min Scan# 406
Delta R.T. -0.30 min
Lab File: VL035087.D
Acq: 22 May 2020 16:43

Tgt Ion: 41 Resp: 499138
Ion Ratio Lower Upper
41 100
76 0.0 23.6 35.4#
39 37.2 61.9 92.9#

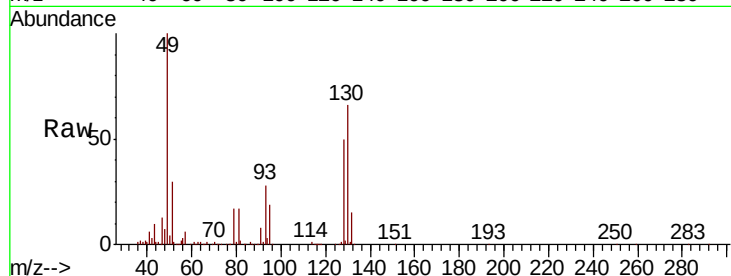




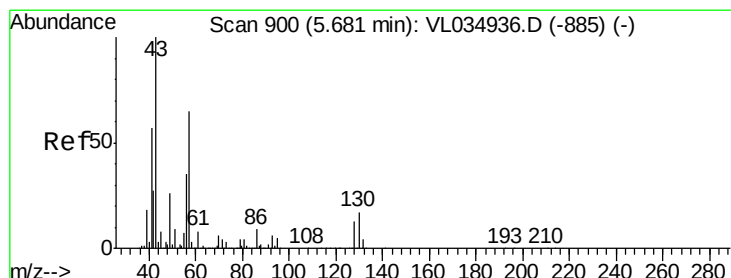
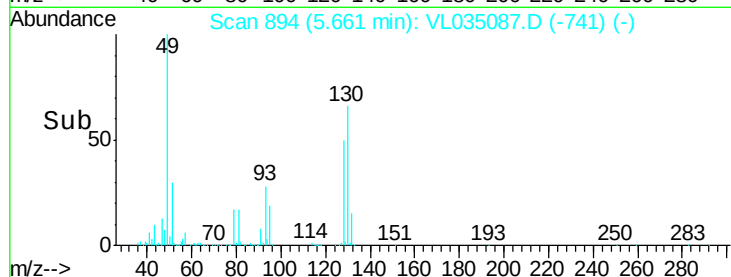
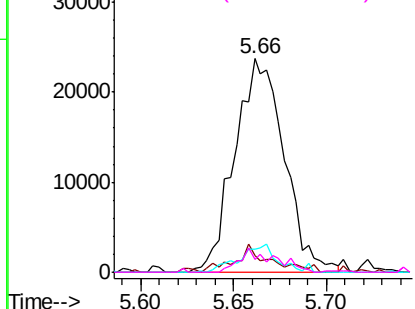
#25
Ethyl Acetate
Concen: 0.198 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL035087.D
Acq: 22 May 2020 16:43

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	44018
Ion	Ratio	Lower	Upper
43	100		
45	9.6	8.1	12.1
61	10.1	7.8	11.8
70	8.2	6.0	9.0

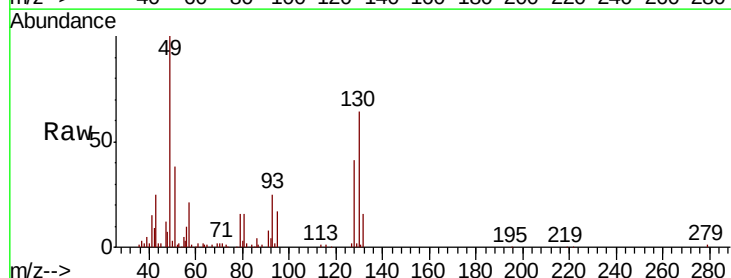


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

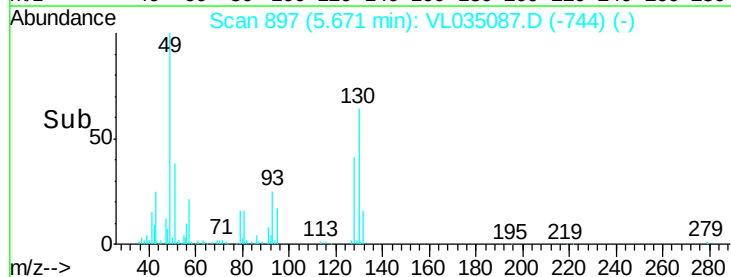
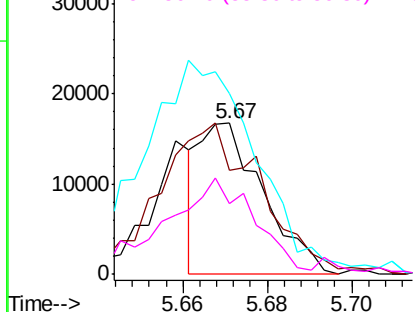


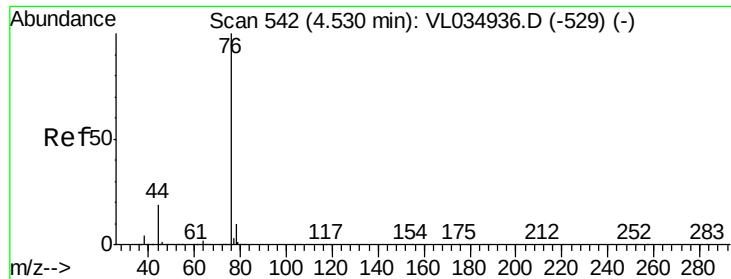
#26
Hexane
Concen: 0.179 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL035087.D
Acq: 22 May 2020 16:43

Tgt Ion:	57	Resp:	17274
Ion	Ratio	Lower	Upper
57	100		
41	169.8	72.7	109.1#
43	0.0	182.1	273.1#
56	97.2	42.2	63.2#



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





#27

Carbon Disulfide

Concen: 0.035 ppbv

RT: 4.52 min Scan# 538

Delta R.T. -0.01 min

Lab File: VL035087.D

Acq: 22 May 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

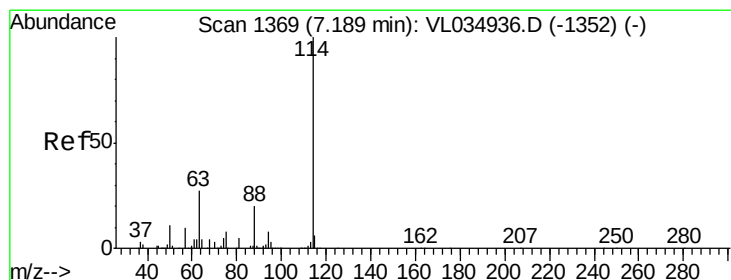
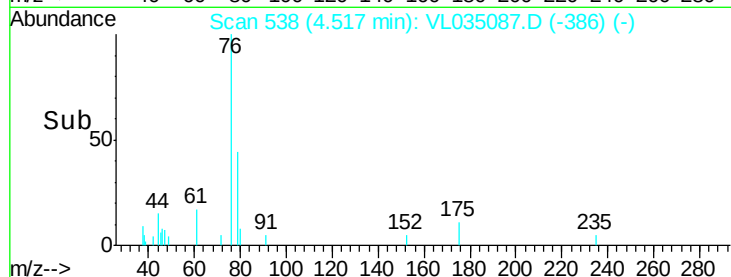
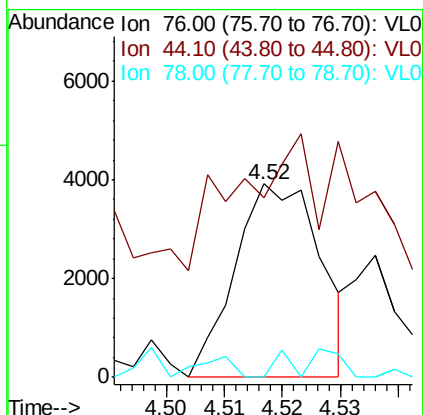
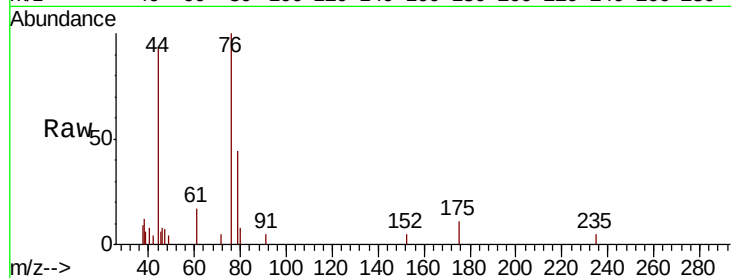
Tot Ion: 76 Resp: 4003

Ion Ratio Lower Upper

76 100

44 172.4 15.2 22.8#

78 0.0 7.7 11.5#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.02 min

Lab File: VL035087.D

Acq: 22 May 2020 16:43

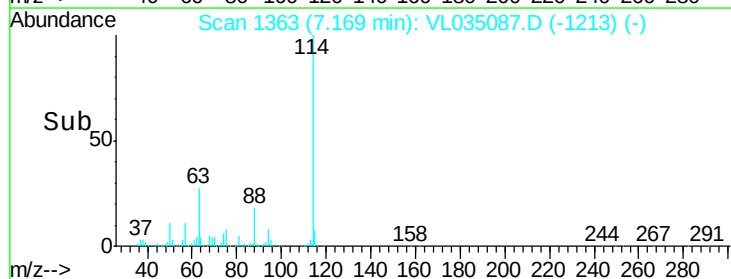
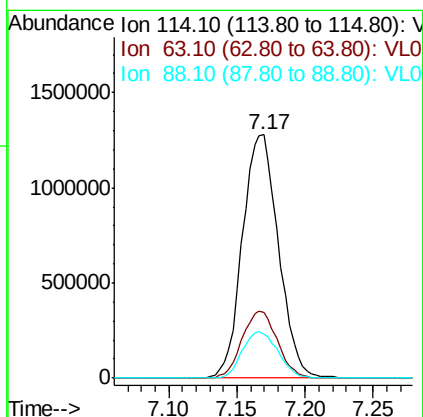
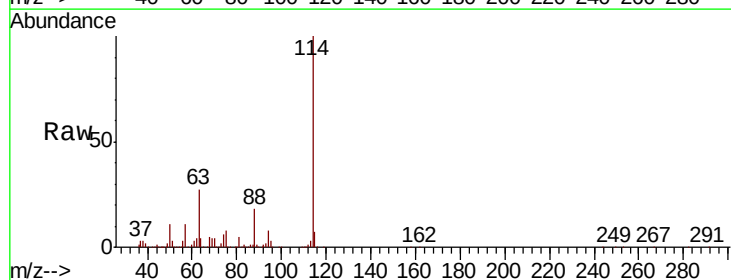
Tgt Ion: 114 Resp: 2344692

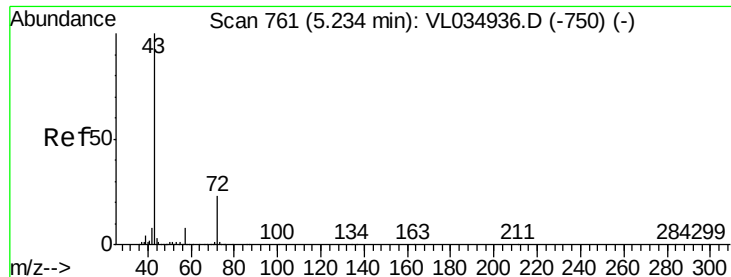
Ion Ratio Lower Upper

114 100

63 27.3 22.2 33.4

88 19.1 15.5 23.3

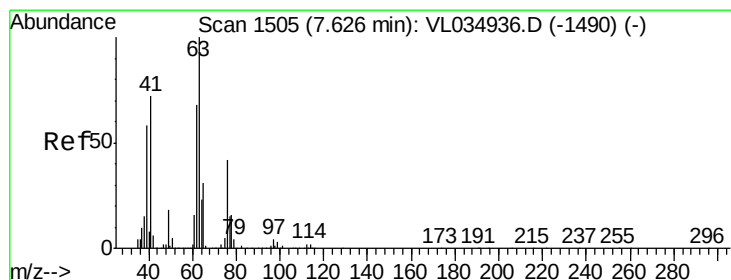
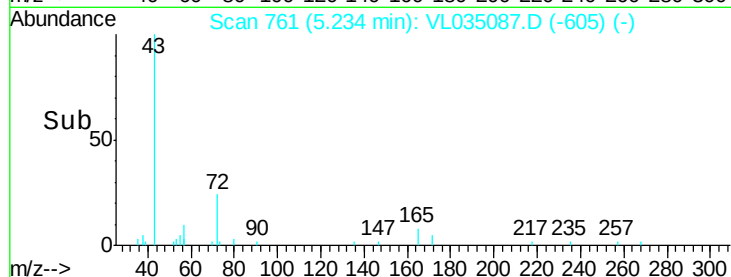
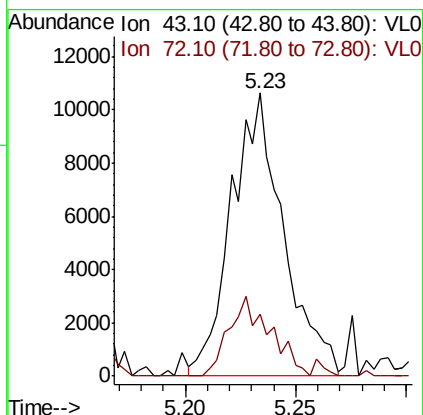
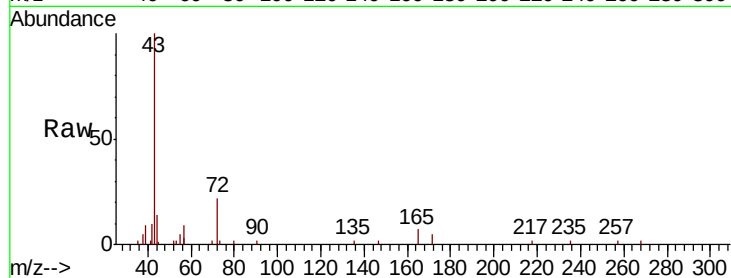




#34
2-Butanone
Concen: 0.120 ppbv
RT: 5.23 min Scan# 761
Delta R.T. -0.00 min
Lab File: VL035087.D
Acq: 22 May 2020 16:43

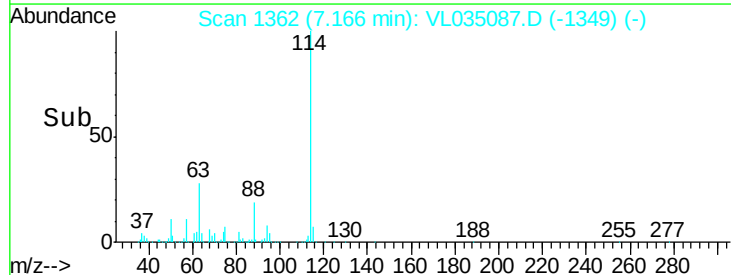
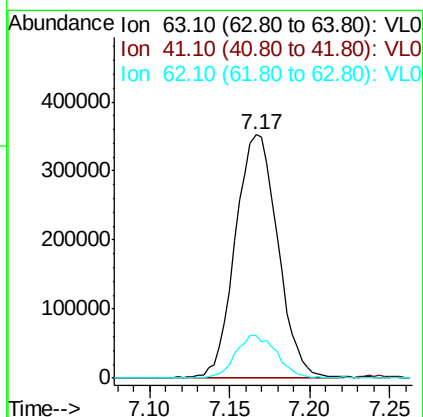
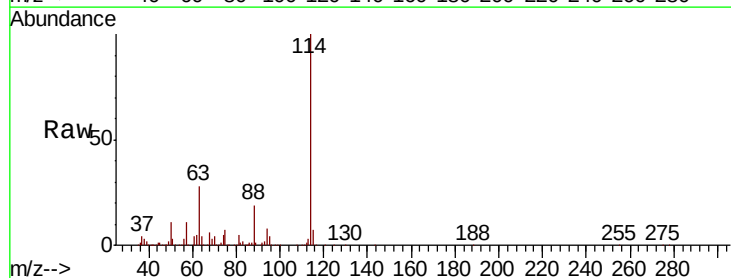
Instrument :
MSVOA_L
ClientSampleId :

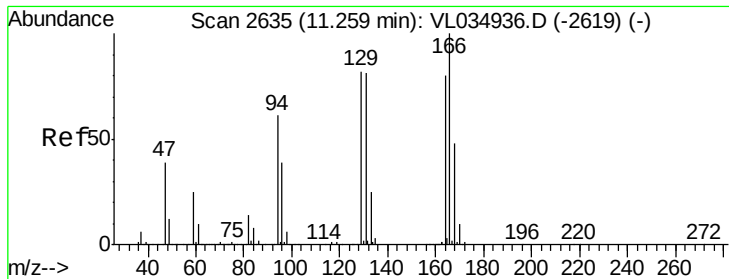
Tot Ion: 43 Resp: 17434
Ion Ratio Lower Upper
43 100
72 23.8 18.0 27.0



#39
1,2-Dichloropropane
Concen: 8.164 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.46 min
Lab File: VL035087.D
Acq: 22 May 2020 16:43

Tgt Ion: 63 Resp: 632628
Ion Ratio Lower Upper
63 100
41 0.0 57.8 86.8#
62 17.5 54.2 81.2#





#52

Tetrachloroethene

Concen: 0.058 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. -0.03 min

Lab File: VL035087.D

Acq: 22 May 2020 16:43

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:164 Resp: 3975

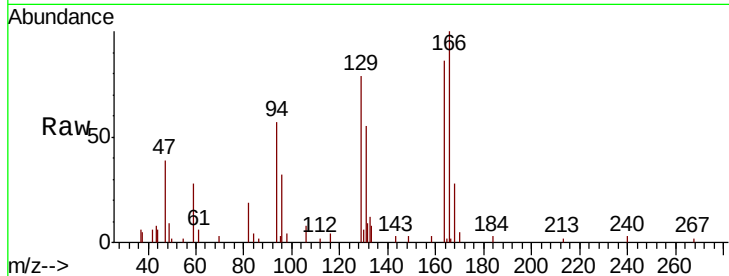
Ion Ratio Lower Upper

164 100

166 96.0 100.7 151.1#

129 43.1 83.0 124.4#

131 6.9 81.0 121.4#

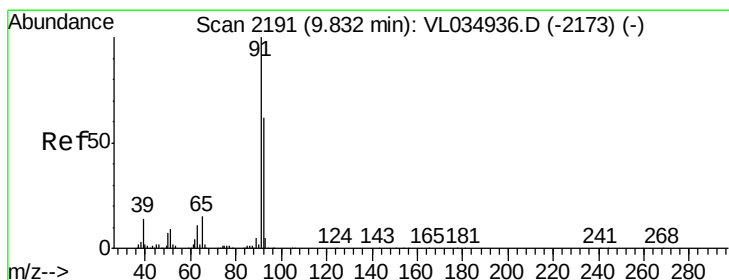
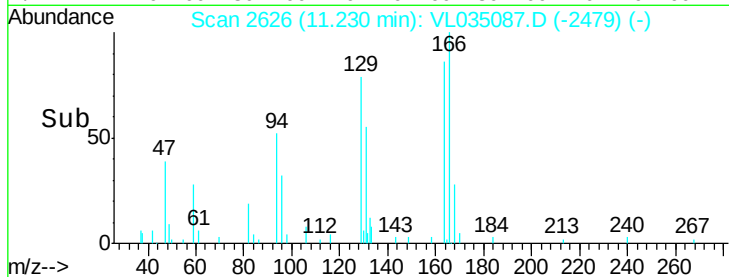
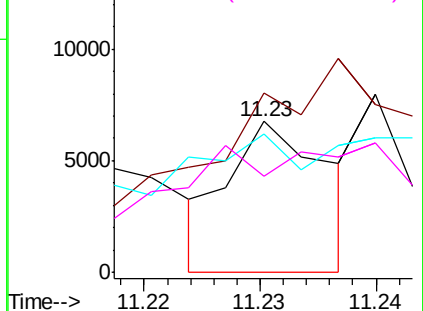


Abundance Ion 163.90 (163.60 to 164.60): V

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



#53

Toluene

Concen: 1.880 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035087.D

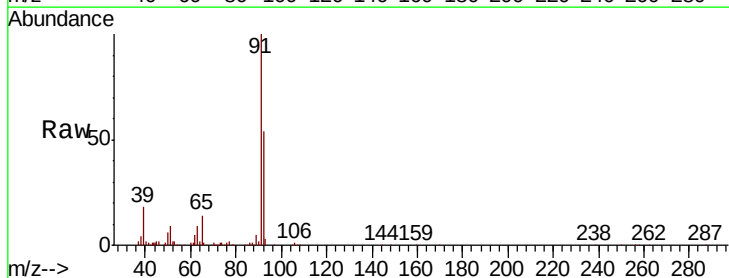
Acq: 22 May 2020 16:43

Tgt Ion: 91 Resp: 385304

Ion Ratio Lower Upper

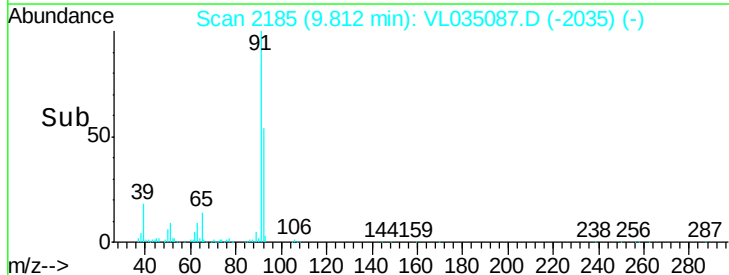
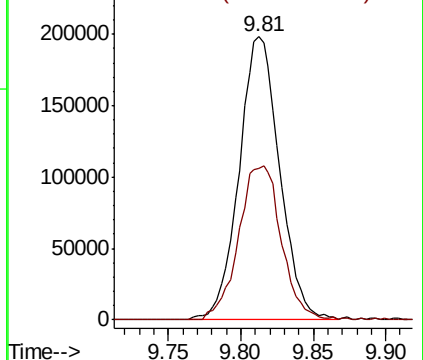
91 100

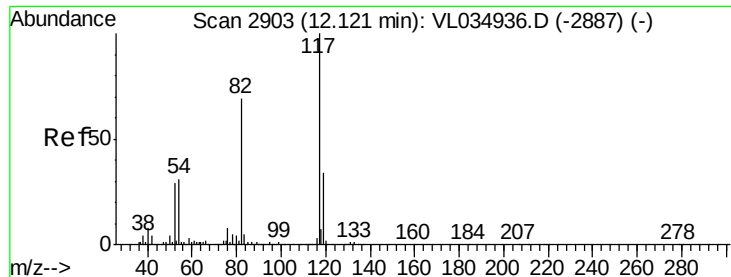
92 57.8 48.6 73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

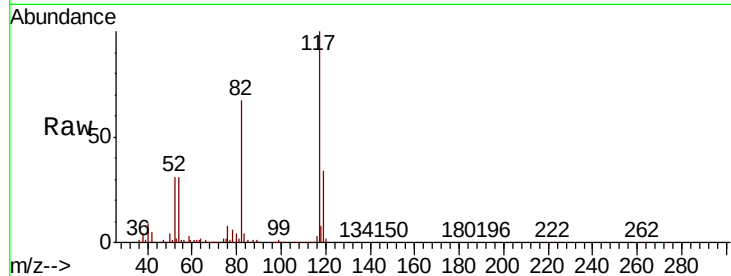




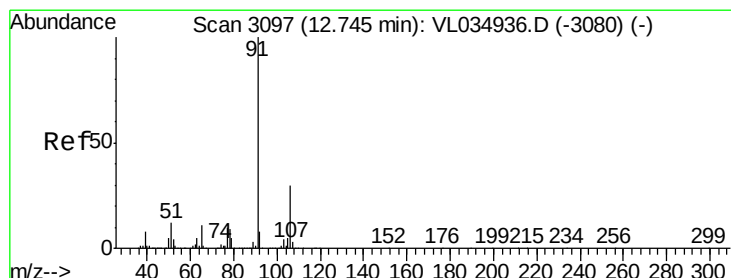
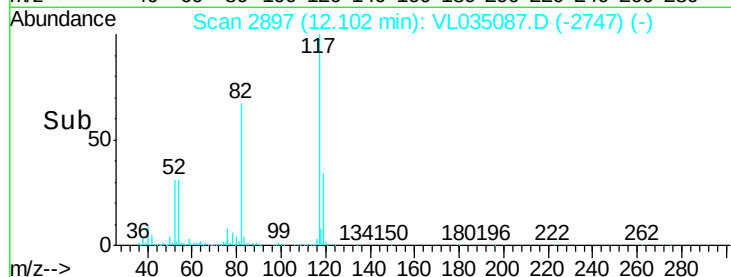
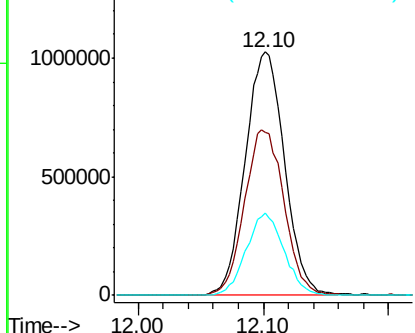
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.02 min
Lab File: VL035087.D
Acq: 22 May 2020 16:43

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 2234611
Ion Ratio Lower Upper
117 100
82 68.6 53.1 79.7
119 32.6 26.7 40.1

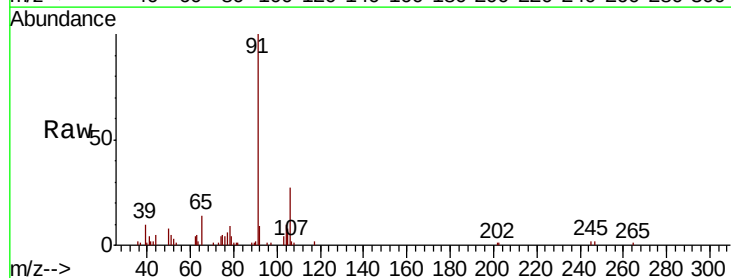


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

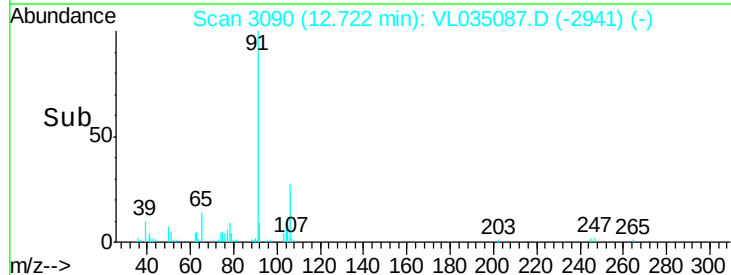
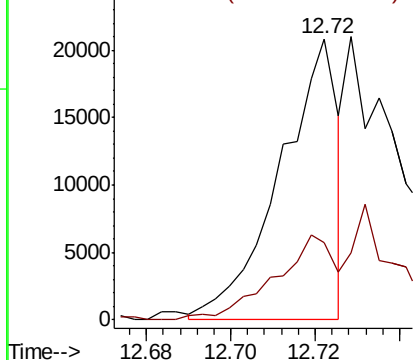


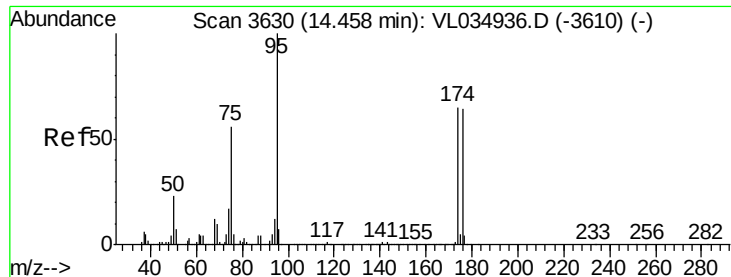
#58
Ethyl Benzene
Concen: 0.072 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. -0.02 min
Lab File: VL035087.D
Acq: 22 May 2020 16:43

Tgt Ion: 91 Resp: 19862
Ion Ratio Lower Upper
91 100
106 26.5 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.394 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.02 min

Lab File: VL035087.D

Acq: 22 May 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 1880091

Ion Ratio Lower Upper

95 100

174 65.4 51.5 77.3

175 4.7 3.8 5.8

