

Data File : VL032887.D
Acq On : 4 Dec 2018 22:01
Operator : SY/AP
Sample : J6175-05DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MMSV-DUPDL

Quant Time: Dec 05 05:50:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1472524	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3678973	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3697705	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 2606896 9.43 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 94.30%

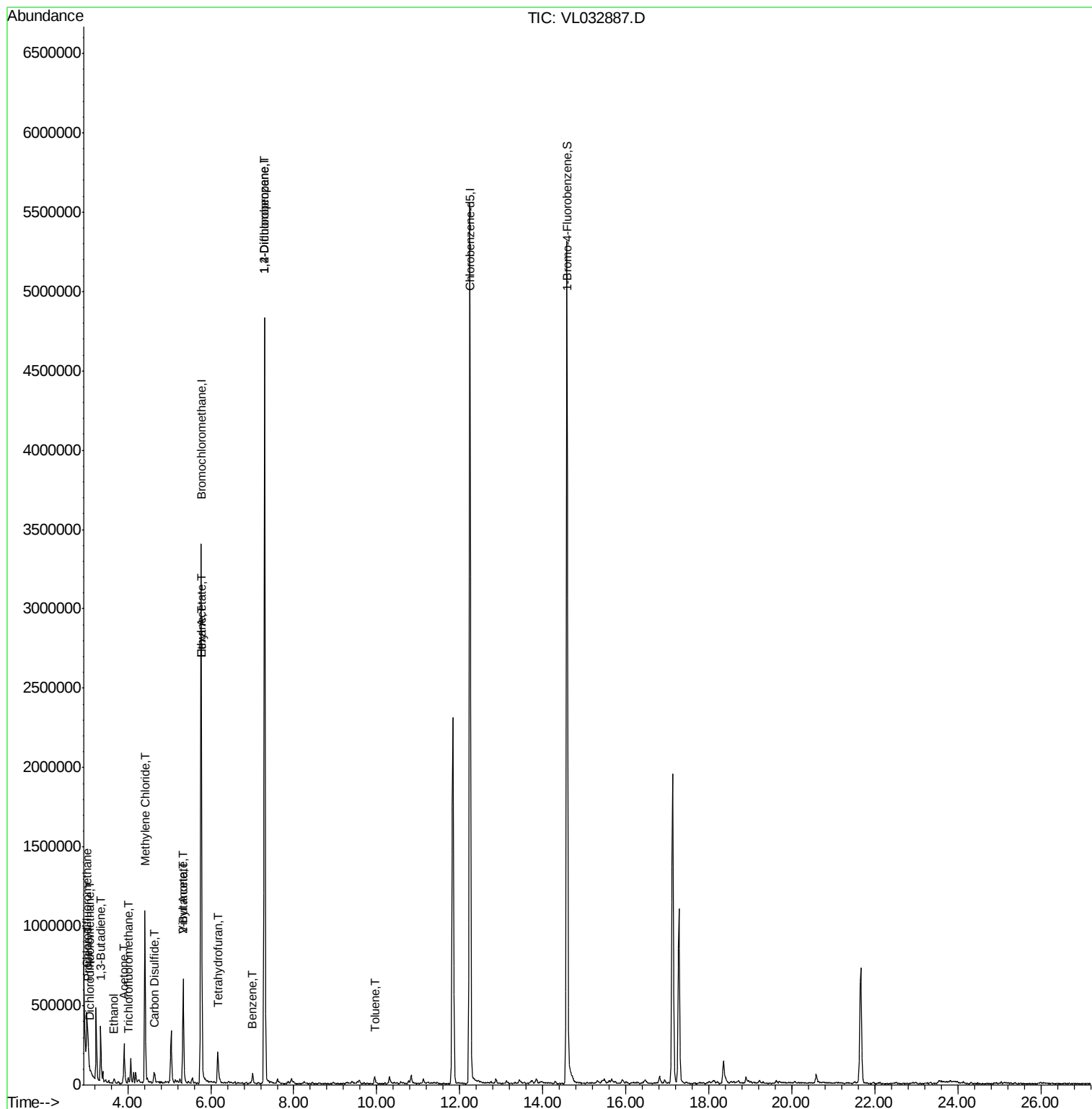
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	19244	0.091 ppbv	94
3) Chlorodifluoromethane	3.02	51	277662	2.378 ppbv	94
9) Propene	3.04	41	82702	1.770 ppbv	96
11) Trichlorofluoromethane	4.01	101	20806	0.104 ppbv	84
13) Ethanol	3.66	45	29720	1.942 ppbv	98
15) Acetone	3.91	43	239537	1.781 ppbv #	82
16) 1,3-Butadiene	3.35	39	88034	1.690 ppbv #	17
20) Methylene Chloride	4.42	84	381336	5.478 ppbv	98
23) Vinyl Acetate	5.33	43	768653	3.136 ppbv #	86
25) Ethyl Acetate	5.79	43	77546	0.247 ppbv #	80
26) Hexane	5.79	57	107424	0.770 ppbv #	42
27) Carbon Disulfide	4.63	76	20978	0.119 ppbv #	74
34) 2-Butanone	5.33	43	768653	4.028 ppbv	98
36) Benzene	7.01	78	47887	0.163 ppbv	96
39) 1,2-Dichloropropane	7.30	63	853058	7.642 ppbv #	22
41) Tetrahydrofuran	6.17	42	119019	1.087 ppbv	97
53) Toluene	9.95	91	33354	0.109 ppbv	99

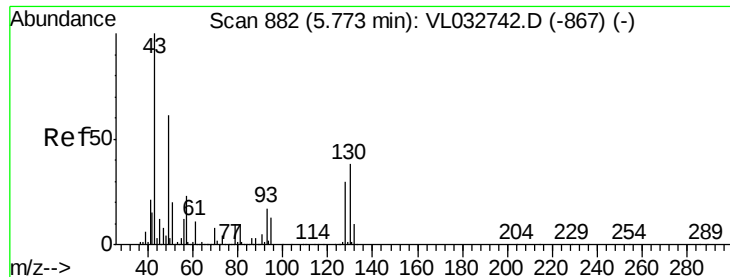
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

Instrument :

MSVOA_L

ClientSampleId :

MMSV-DUPDL

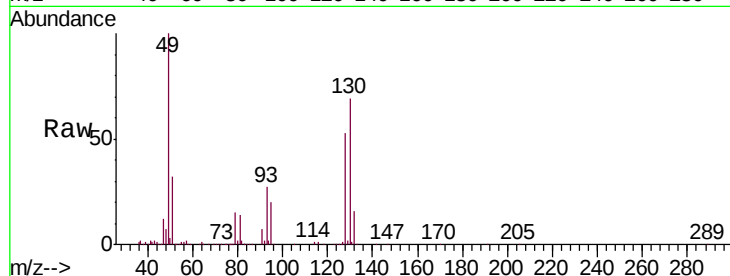
Tgt Ion: 49 Resp: 1472524

Ion Ratio Lower Upper

49 100

128 52.9 24.9 74.6

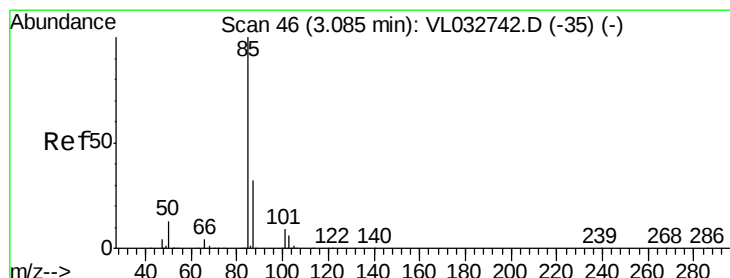
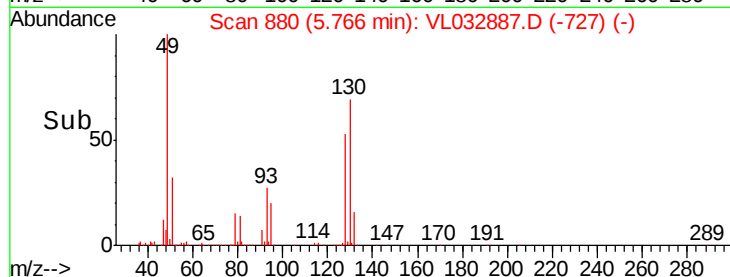
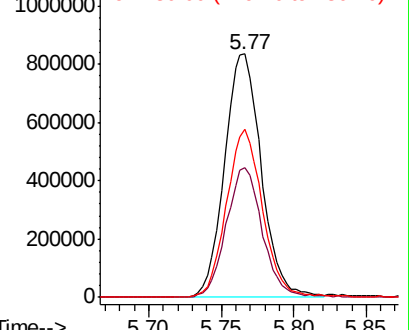
130 68.3 31.4 94.2



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: 0.091 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032887.D

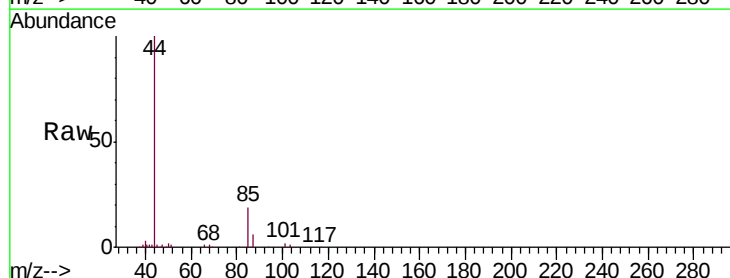
Acq: 4 Dec 2018 22:01

Tgt Ion: 85 Resp: 19244

Ion Ratio Lower Upper

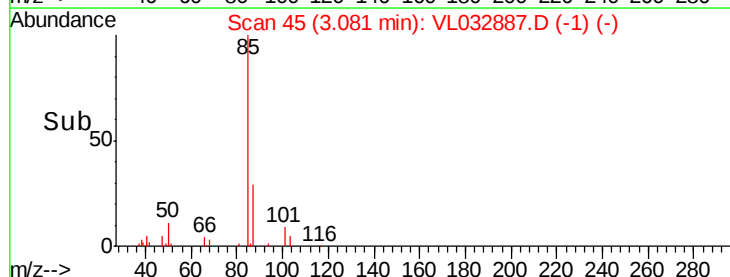
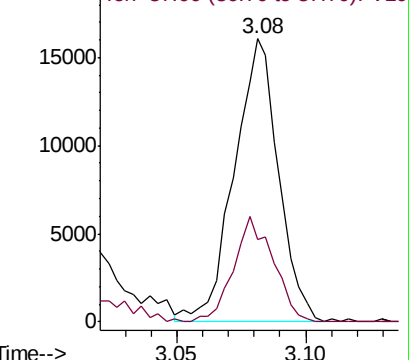
85 100

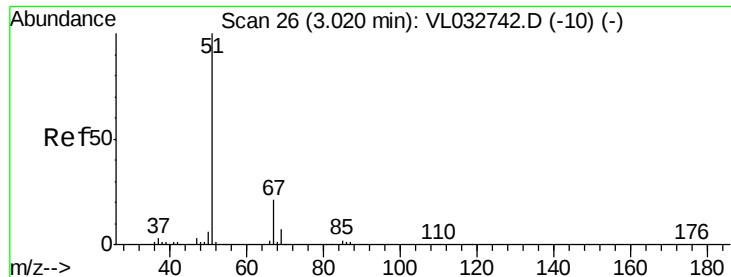
87 29.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.378 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

Instrument :

MSVOA_L

ClientSampleId :

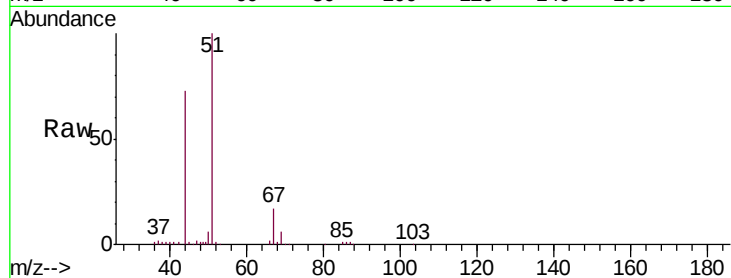
MMSV-DUPDL

Tgt Ion: 51 Resp: 277662

Ion Ratio Lower Upper

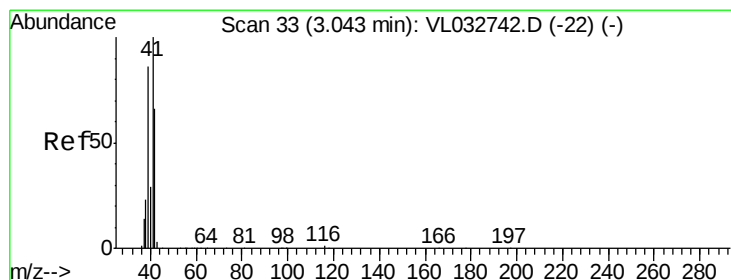
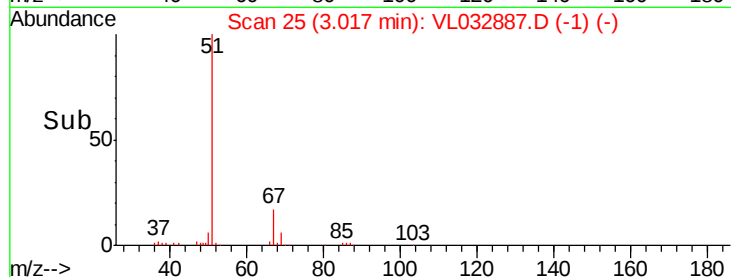
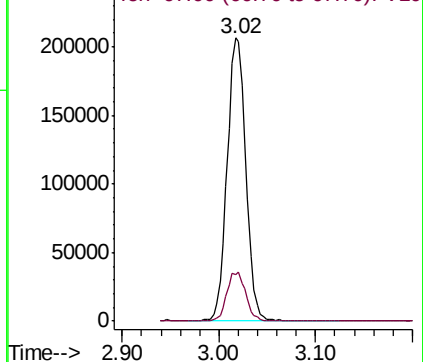
51 100

67 17.5 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 1.770 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032887.D

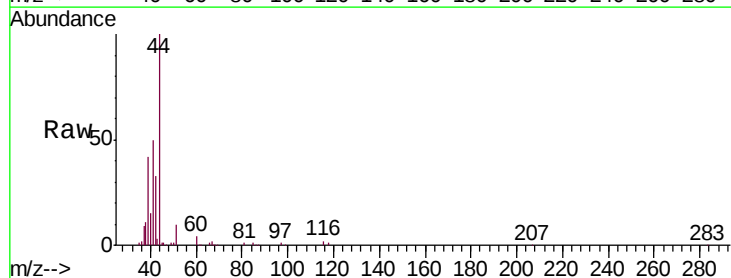
Acq: 4 Dec 2018 22:01

Tgt Ion: 41 Resp: 82702

Ion Ratio Lower Upper

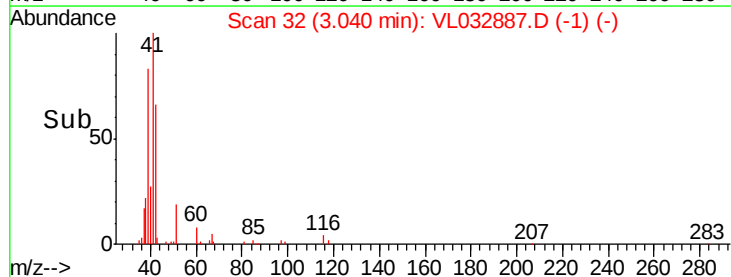
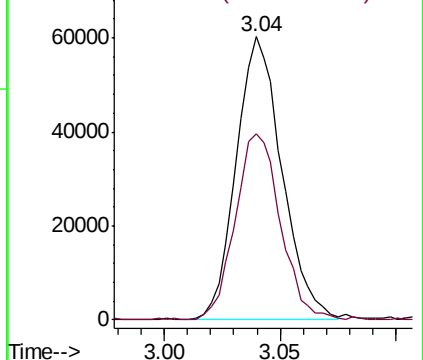
41 100

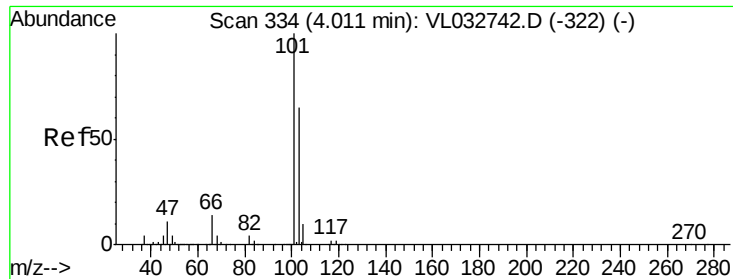
42 65.5 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

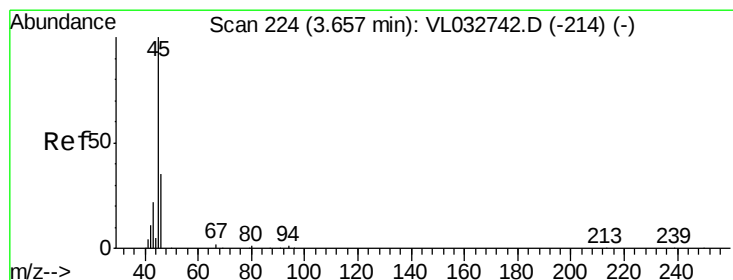
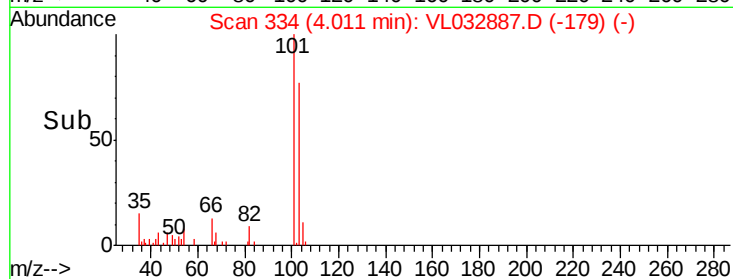
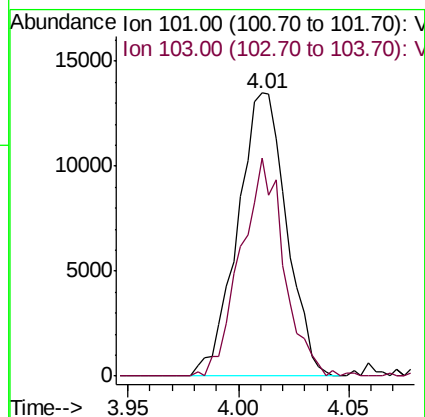
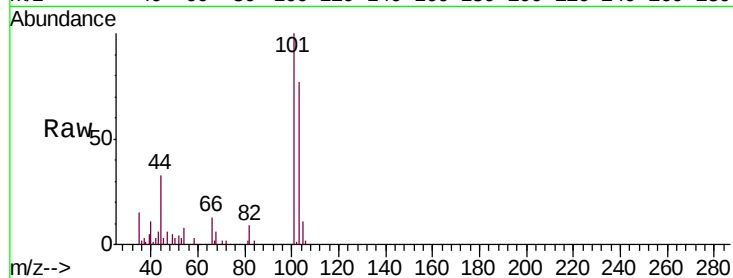




#11
 Trichlorofluoromethane
 Concen: 0.104 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032887.D
 Acq: 4 Dec 2018 22:01

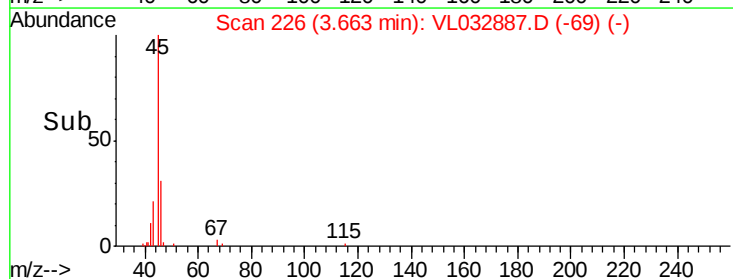
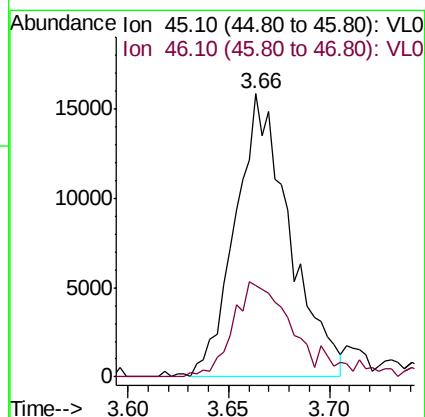
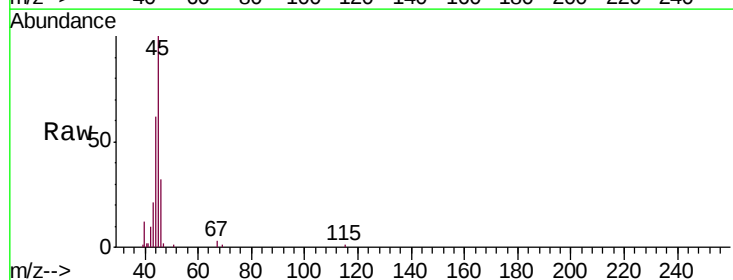
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-DUPDL

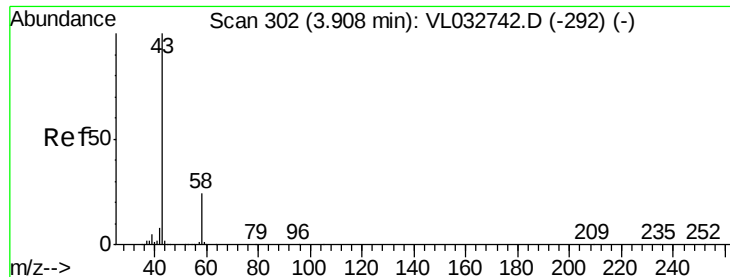
Tgt Ion: 101 Resp: 20806
 Ion Ratio Lower Upper
 101 100
 103 77.1 51.6 77.4



#13
 Ethanol
 Concen: 1.942 ppbv
 RT: 3.66 min Scan# 226
 Delta R.T. 0.01 min
 Lab File: VL032887.D
 Acq: 4 Dec 2018 22:01

Tgt Ion: 45 Resp: 29720
 Ion Ratio Lower Upper
 45 100
 46 37.3 14.5 57.9





#15

Acetone

Concen: 1.781 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

Instrument :

MSVOA_L

ClientSampleId :

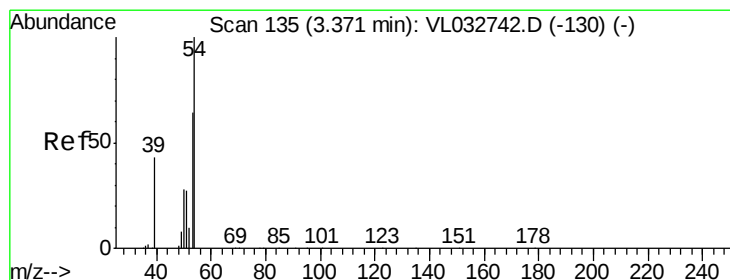
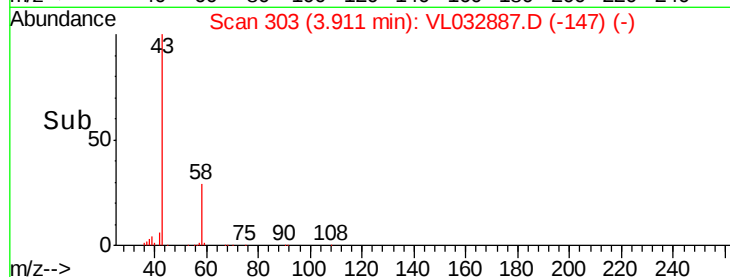
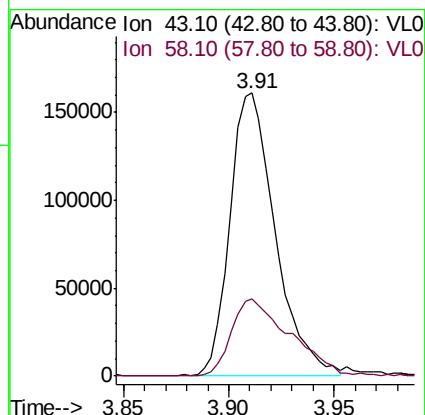
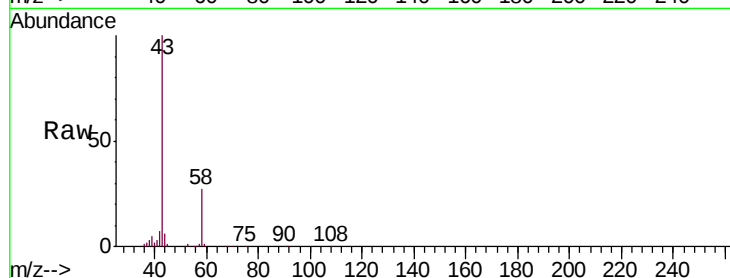
MMSV-DUPDL

Tgt Ion: 43 Resp: 239537

Ion Ratio Lower Upper

43 100

58 35.7 21.1 31.7#



#16

1,3-Butadiene

Concen: 1.690 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.02 min

Lab File: VL032887.D

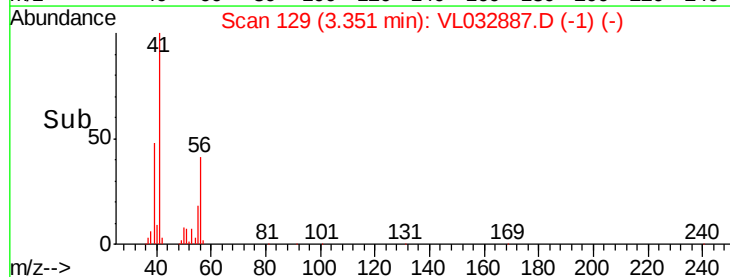
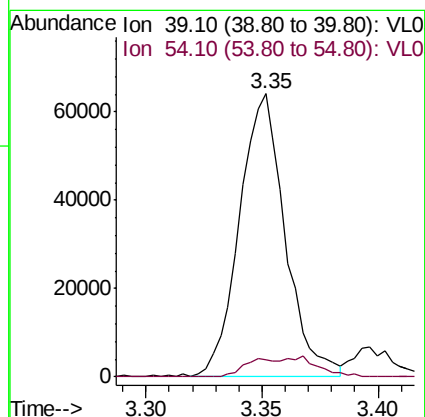
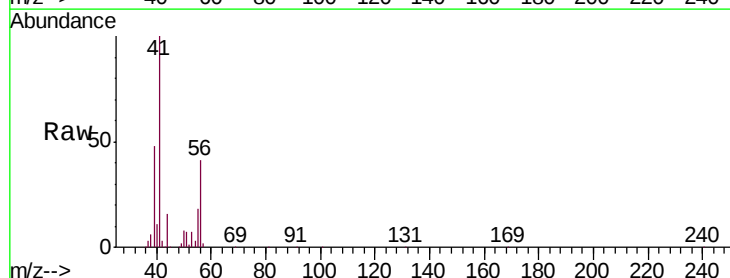
Acq: 4 Dec 2018 22:01

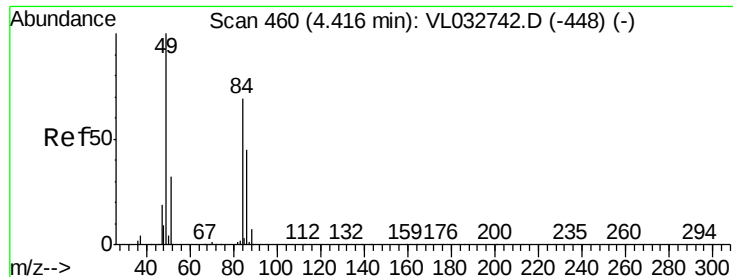
Tgt Ion: 39 Resp: 88034

Ion Ratio Lower Upper

39 100

54 10.2 68.9 103.3#

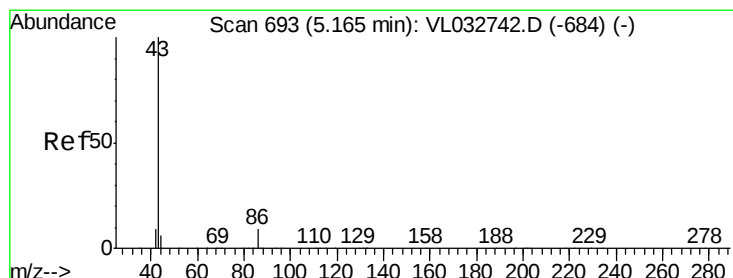
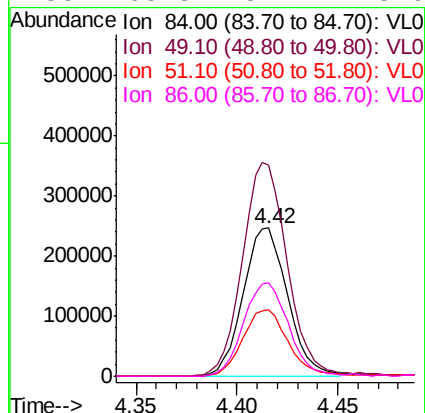
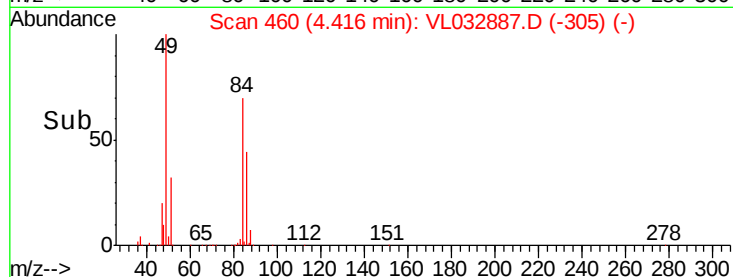
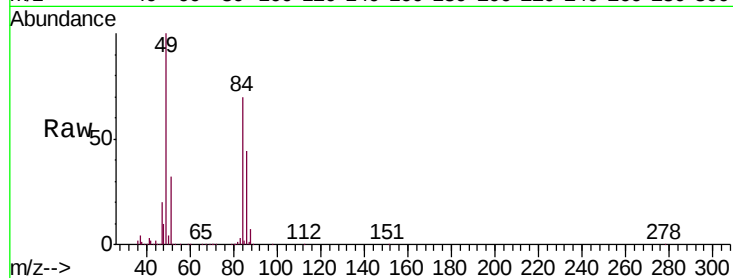




#20
Methylene Chloride
Concen: 5.478 ppbv
RT: 4.42 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL032887.D
Acq: 4 Dec 2018 22:01

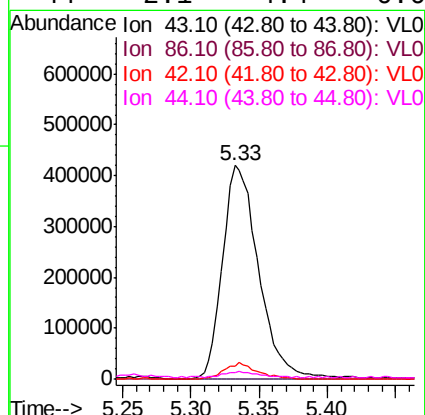
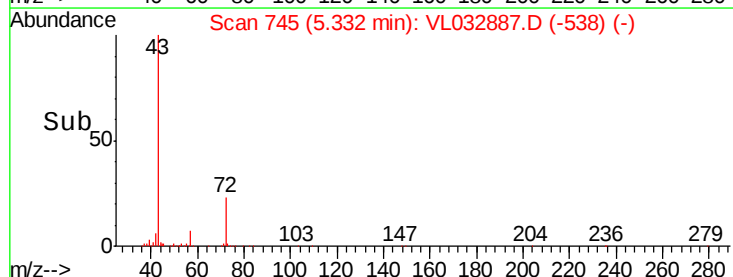
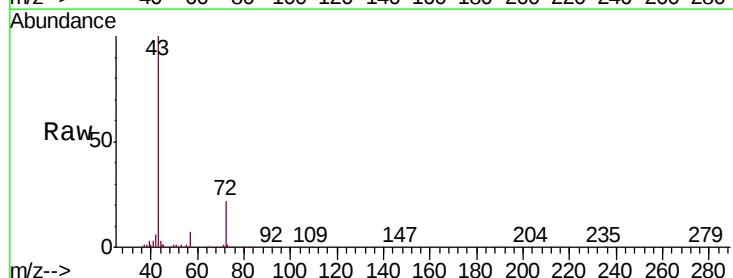
Instrument :
MSVOA_L
ClientSampleId :
MMSV-DUPDL

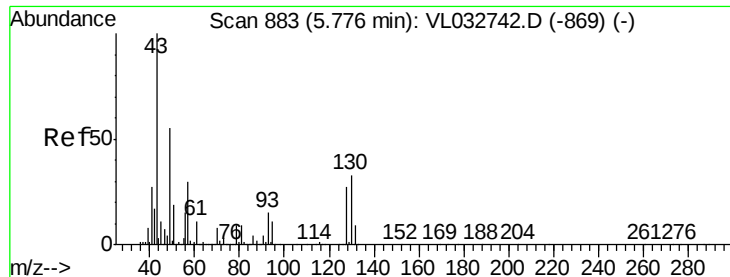
Tgt Ion:	84	Resp:	381336
Ion	Ratio	Lower	Upper
84	100		
49	142.6	115.8	173.6
51	45.1	36.9	55.3
86	63.3	52.4	78.6



#23
Vinyl Acetate
Concen: 3.136 ppbv
RT: 5.33 min Scan# 745
Delta R.T. 0.17 min
Lab File: VL032887.D
Acq: 4 Dec 2018 22:01

Tgt Ion:	43	Resp:	768653
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#
42	6.3	7.8	11.6#
44	2.1	4.4	6.6#

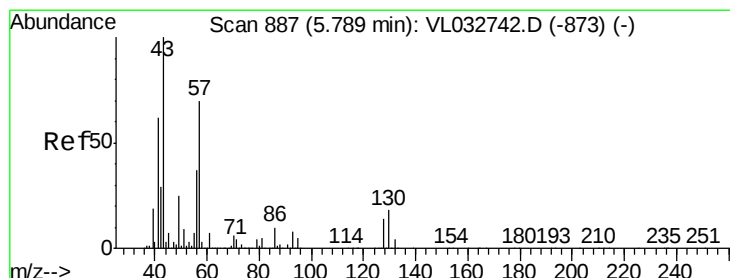
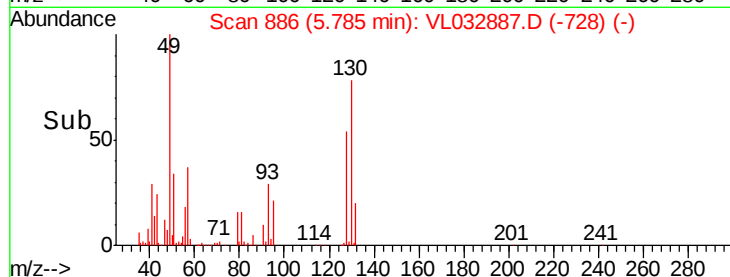
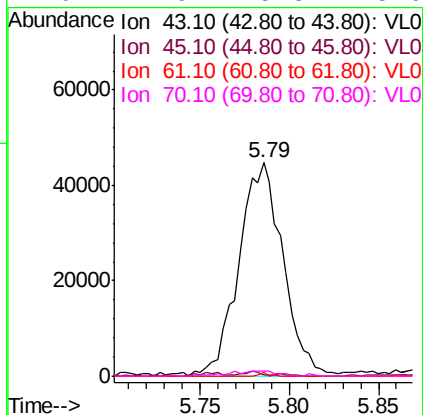
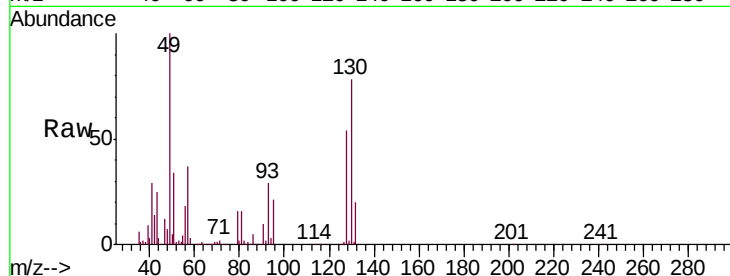




#25
Ethyl Acetate
Concen: 0.247 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032887.D
Acq: 4 Dec 2018 22:01

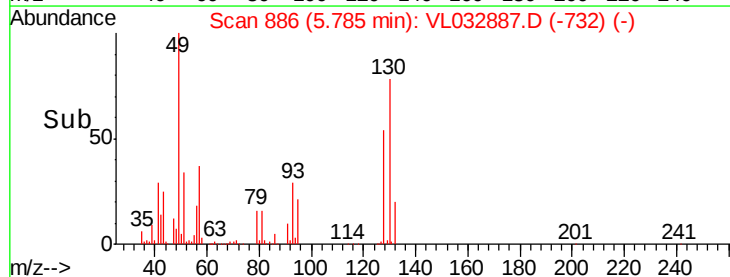
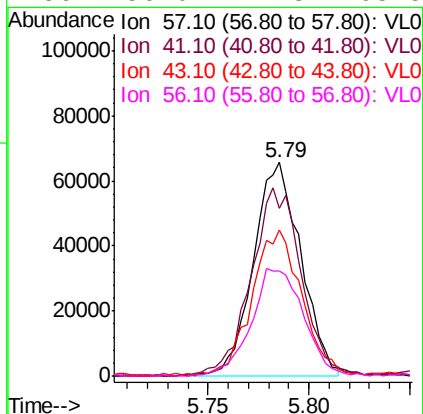
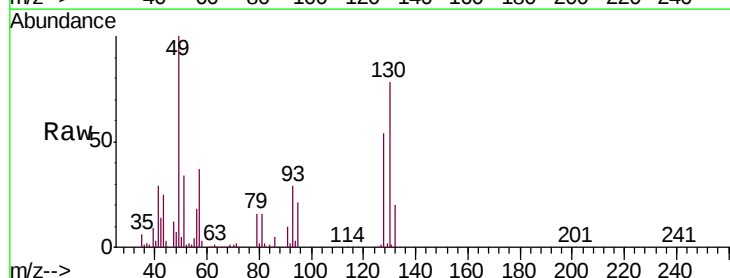
Instrument :
MSVOA_L
ClientSampleId :
MMSV-DUPDL

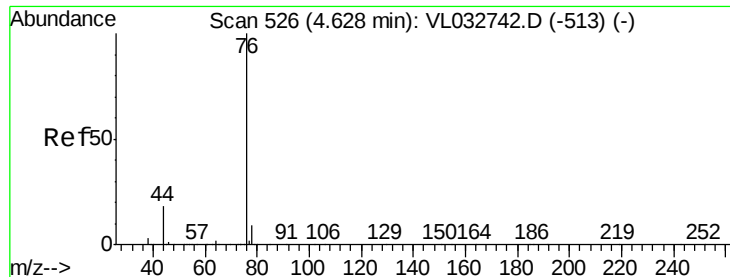
Tgt Ion:	43	Resp:	77546
Ion	Ratio	Lower	Upper
43	100		
45	2.2	7.9	11.9#
61	0.3	7.8	11.6#
70	2.9	5.8	8.6#



#26
Hexane
Concen: 0.770 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032887.D
Acq: 4 Dec 2018 22:01

Tgt Ion:	57	Resp:	107424
Ion	Ratio	Lower	Upper
57	100		
41	93.9	70.3	105.5
43	70.3	174.0	261.0#
56	56.0	42.3	63.5





#27

Carbon Disulfide

Concen: 0.119 ppbv

RT: 4.63 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

Instrument :

MSVOA_L

ClientSampleId :

MMSV-DUPDL

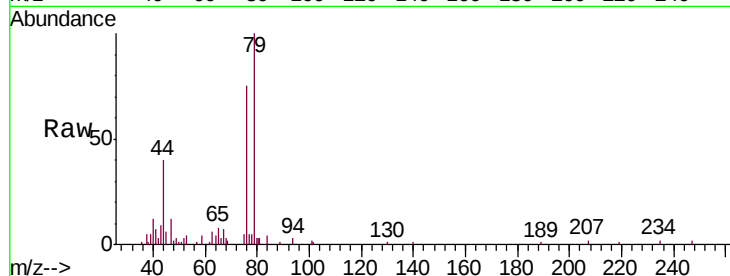
Tgt Ion: 76 Resp: 20978

Ion Ratio Lower Upper

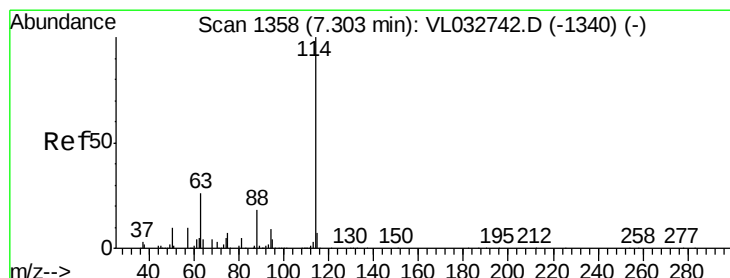
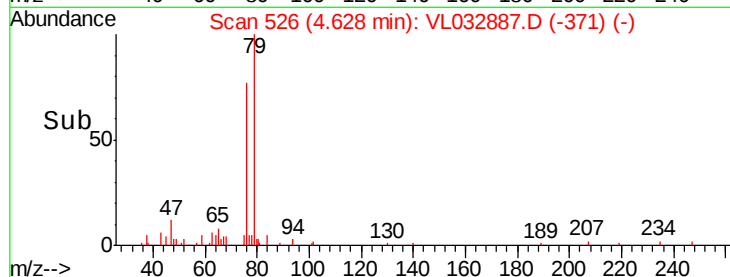
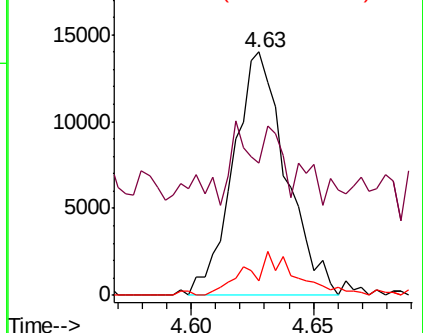
76 100

44 29.9 14.4 21.6#

78 18.2 7.7 11.5#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

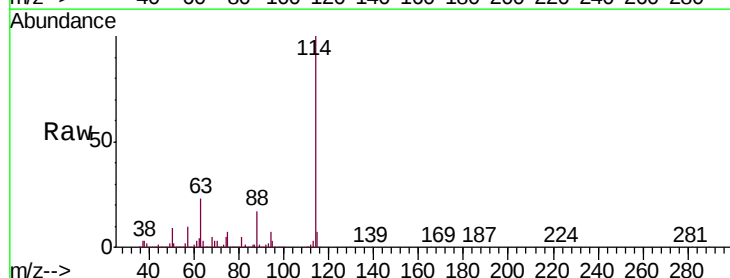
Tgt Ion: 114 Resp: 3678973

Ion Ratio Lower Upper

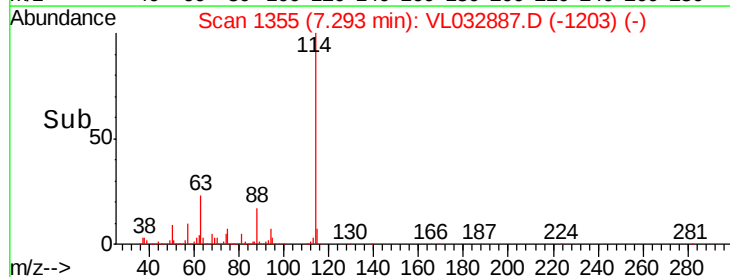
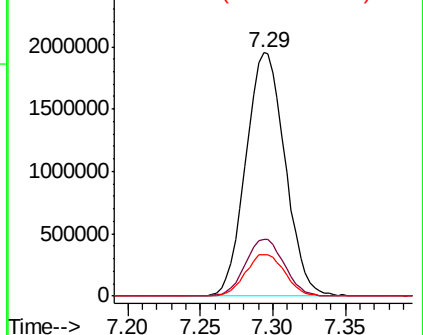
114 100

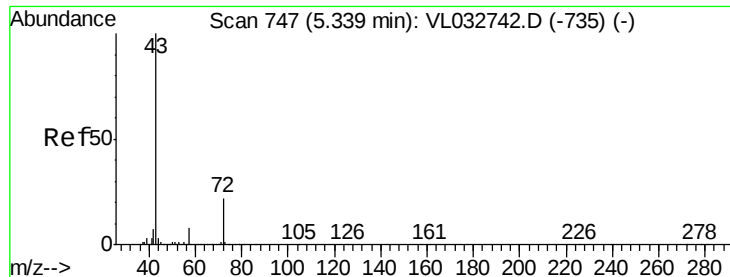
63 23.3 20.9 31.3

88 17.3 14.4 21.6



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: 4.028 ppbv

RT: 5.33 min Scan# 745

Delta R.T. -0.01 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

Instrument :

MSVOA_L

ClientSampleId :

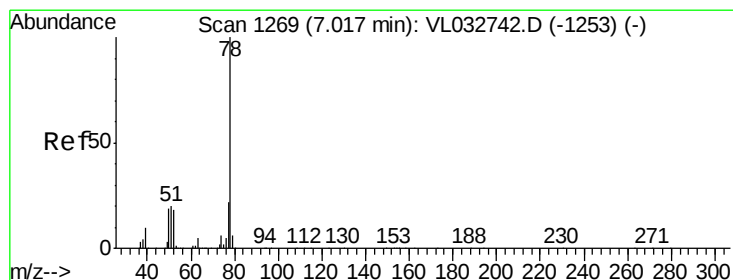
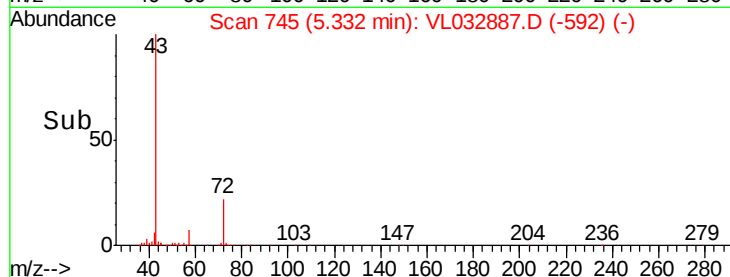
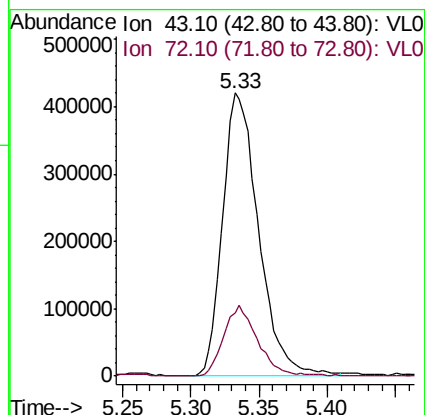
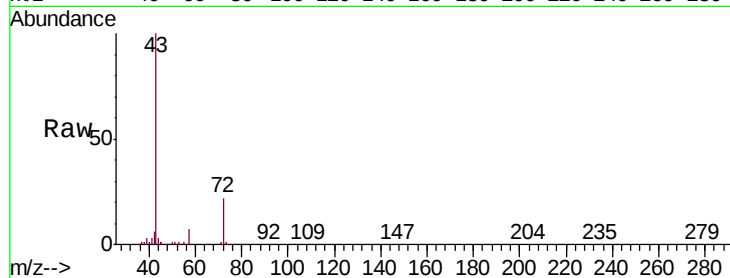
MMSV-DUPDL

Tgt Ion: 43 Resp: 768653

Ion Ratio Lower Upper

43 100

72 24.1 18.4 27.6



#36

Benzene

Concen: 0.163 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

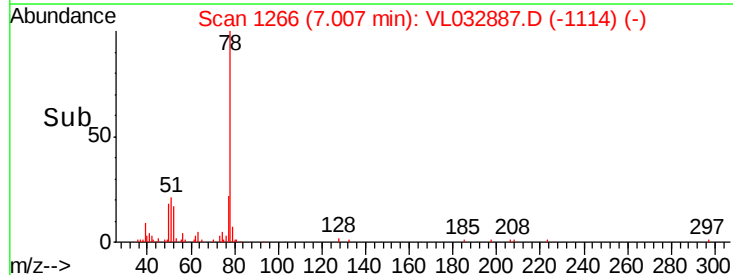
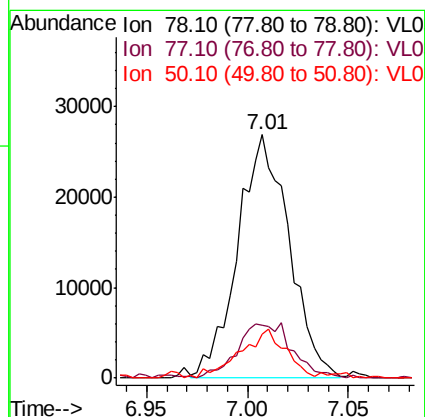
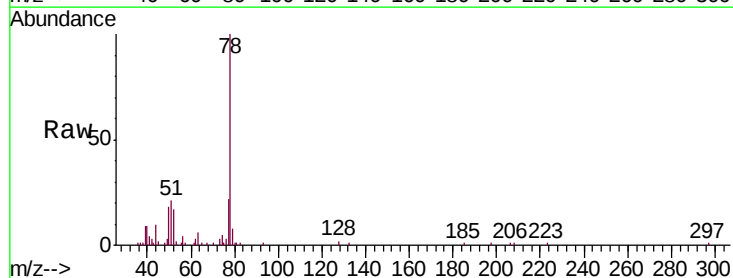
Tgt Ion: 78 Resp: 47887

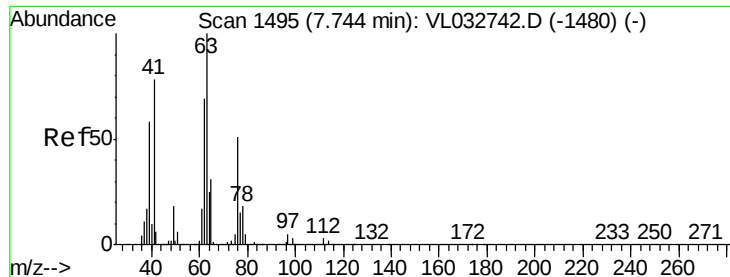
Ion Ratio Lower Upper

78 100

77 21.0 17.8 26.8

50 17.2 15.4 23.0





#39

1,2-Dichloropropane

Concen: 7.642 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

Instrument :

MSVOA_L

ClientSampleId :

MMSV-DUPDL

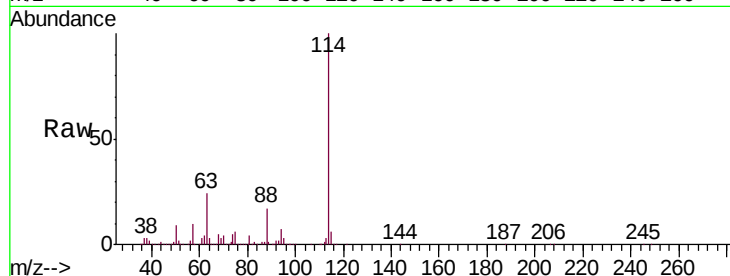
Tgt Ion: 63 Resp: 853058

Ion Ratio Lower Upper

63 100

41 0.2 62.0 93.0#

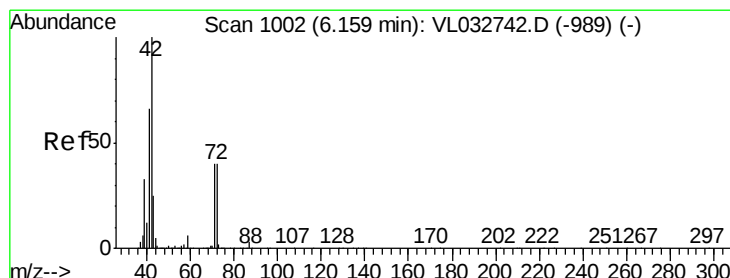
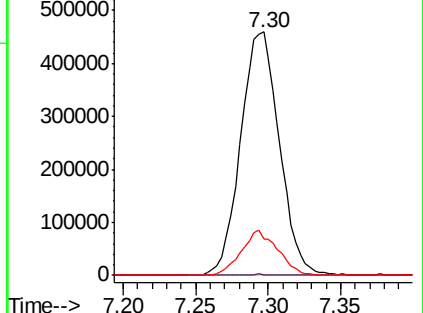
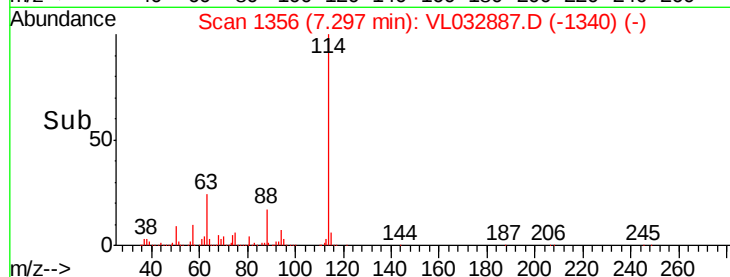
62 15.2 55.4 83.2#



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



#41

Tetrahydrofuran

Concen: 1.087 ppbv

RT: 6.17 min Scan# 1006

Delta R.T. 0.01 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

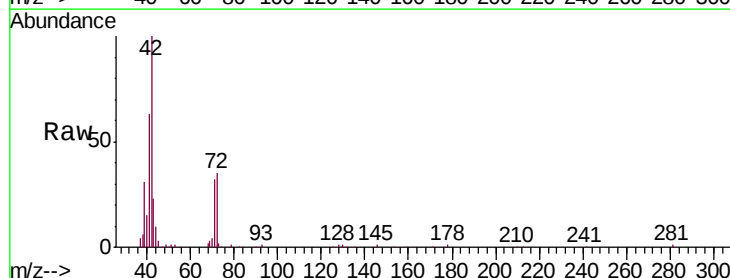
Tgt Ion: 42 Resp: 119019

Ion Ratio Lower Upper

42 100

72 37.8 32.4 48.6

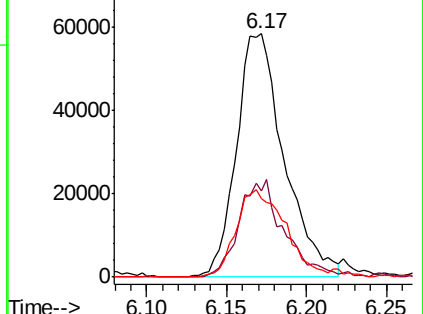
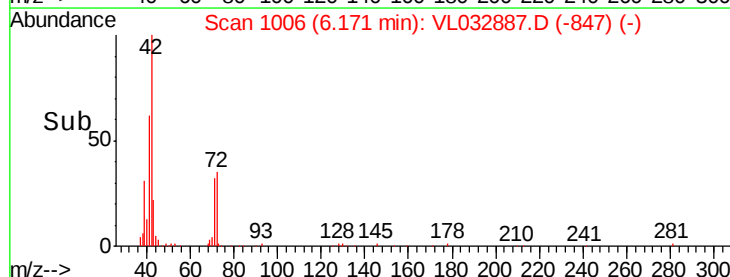
71 38.4 31.6 47.4

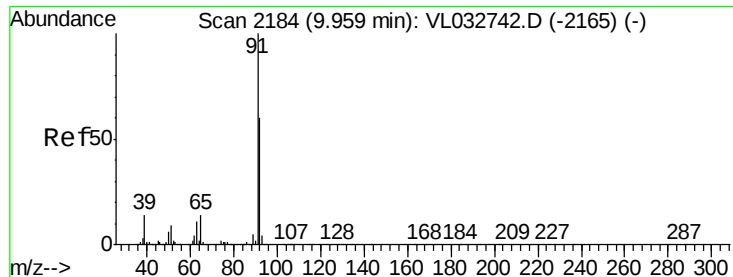


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.109 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

Instrument :

MSVOA_L

ClientSampleId :

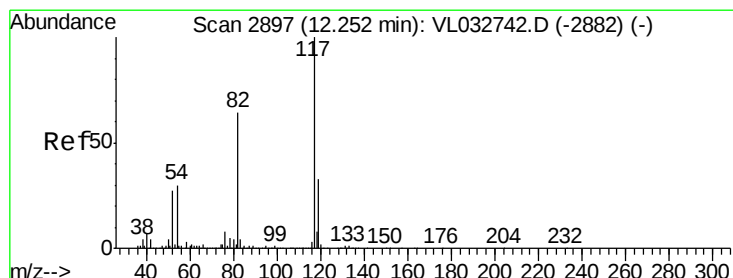
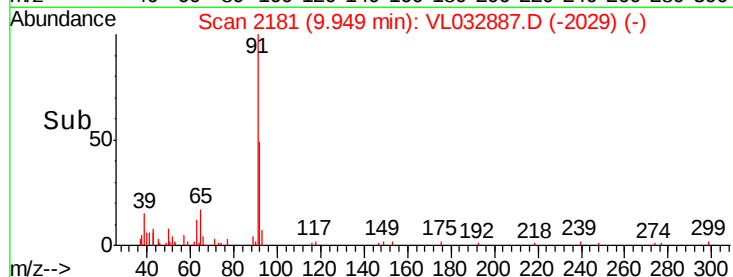
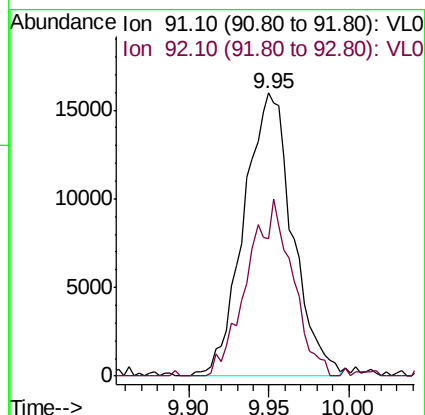
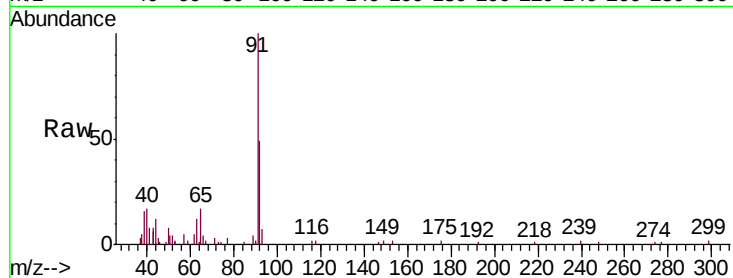
MMSV-DUPDL

Tgt Ion: 91 Resp: 33354

Ion Ratio Lower Upper

91 100

92 58.8 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

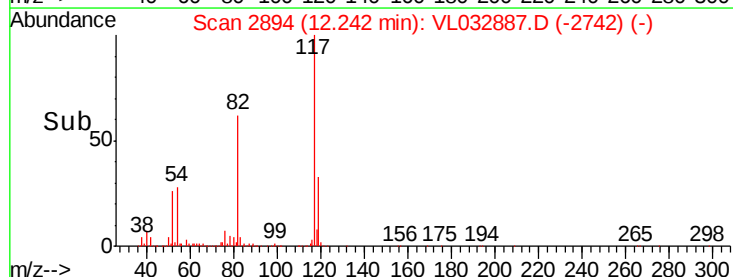
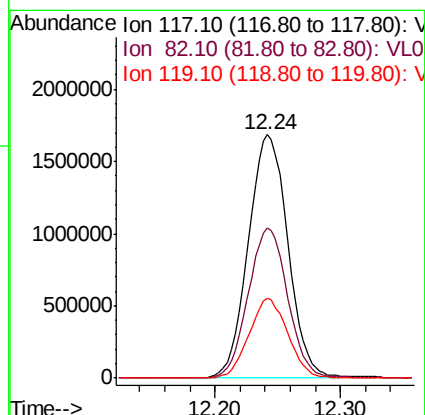
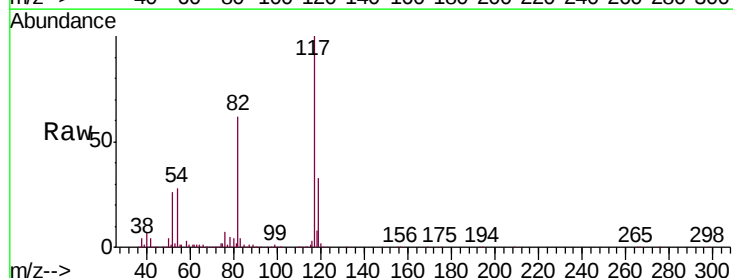
Tgt Ion: 117 Resp: 3697705

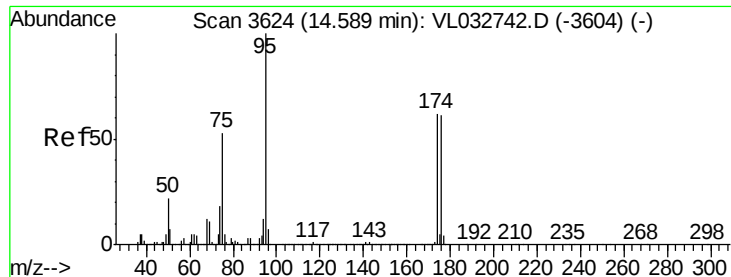
Ion Ratio Lower Upper

117 100

82 62.1 51.0 76.6

119 32.4 28.0 42.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.426 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL032887.D

Acq: 4 Dec 2018 22:01

Instrument :

MSVOA_L

ClientSampleId :

MMSV-DUPDL

Tgt Ion: 95 Resp: 2606896

Ion Ratio Lower Upper

95 100

174 67.6 50.7 76.1

175 5.0 3.8 5.6

