

Data File : VL032889.D
Acq On : 4 Dec 2018 23:20
Operator : SY/AP
Sample : J6175-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MMSV-03DL

Quant Time: Dec 05 05:51:13 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	5.76	49	1453836	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3608168	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3629127	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2587821	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

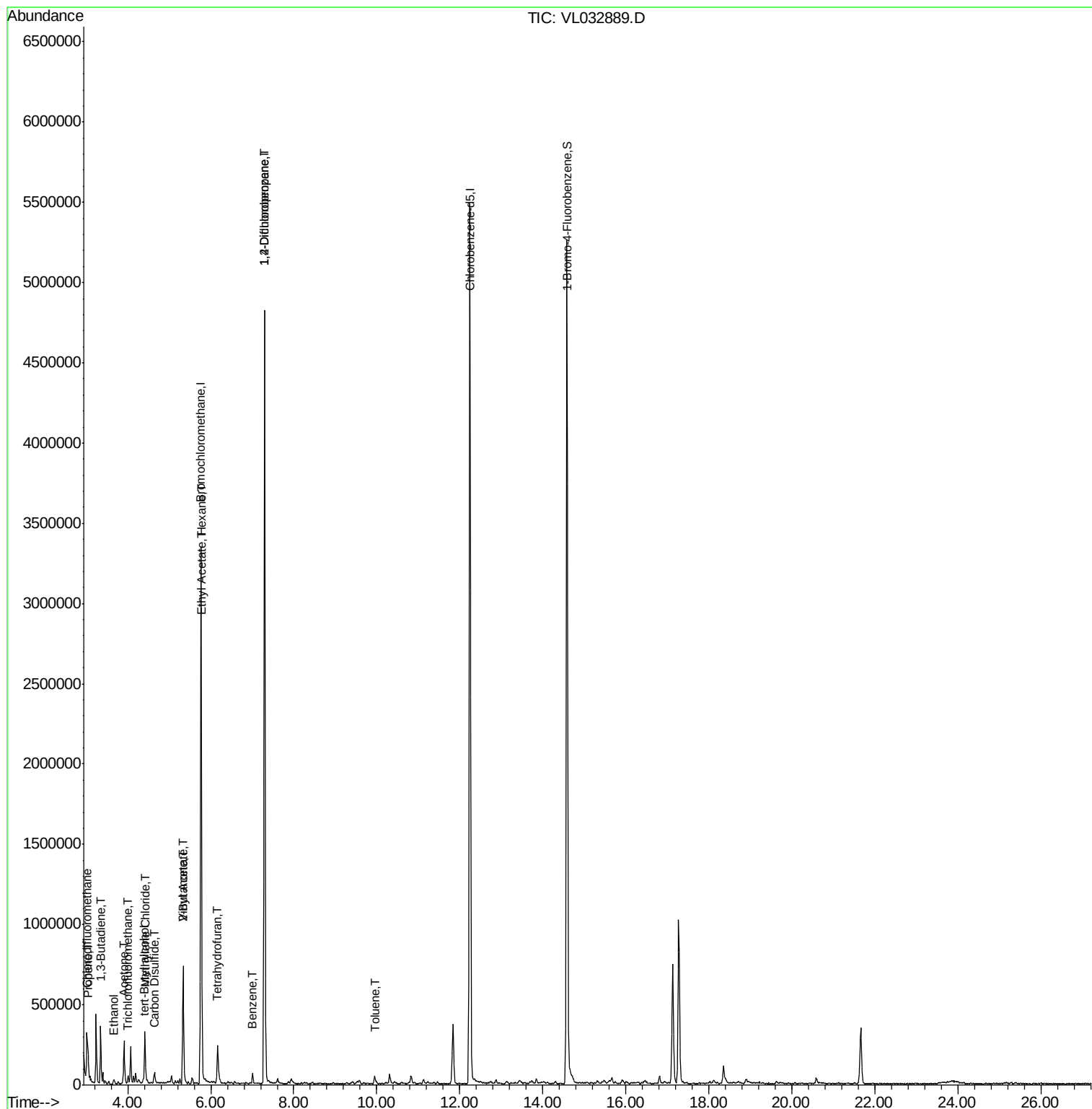
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	245089	2.126	ppbv	94
9) Propene	3.04	41	81165	1.760	ppbv	95
11) Trichlorofluoromethane	4.01	101	26854	0.136	ppbv	100
13) Ethanol	3.66	45	18199	1.205	ppbv #	49
15) Acetone	3.91	43	253707	1.911	ppbv #	81
16) 1,3-Butadiene	3.35	39	92716	1.803	ppbv #	17
17) tert-Butyl alcohol	4.39	59	3675	0.088	ppbv #	73
20) Methylene Chloride	4.41	84	103771	1.510	ppbv	94
23) Vinyl Acetate	5.33	43	850992	3.516	ppbv #	87
25) Ethyl Acetate	5.78	43	62454	0.202	ppbv #	79
26) Hexane	5.78	57	86489	0.628	ppbv #	43
27) Carbon Disulfide	4.63	76	19460	0.111	ppbv #	32
34) 2-Butanone	5.33	43	850992	4.547	ppbv	100
36) Benzene	7.00	78	43795	0.152	ppbv #	95
39) 1,2-Dichloropropane	7.29	63	853313	7.795	ppbv #	22
41) Tetrahydrofuran	6.16	42	140242	1.306	ppbv	97
53) Toluene	9.95	91	32833	0.110	ppbv	99

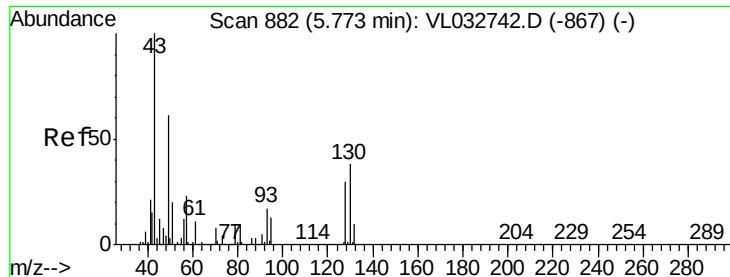
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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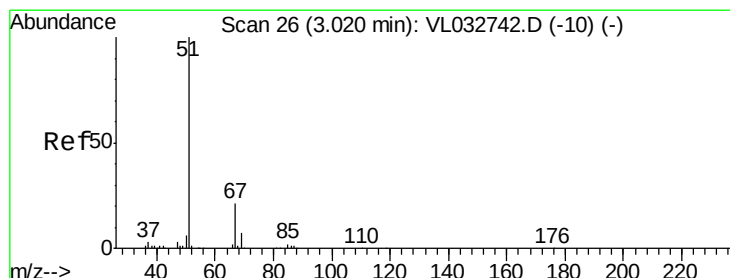
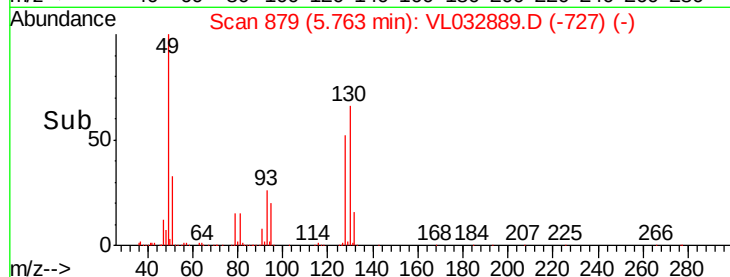
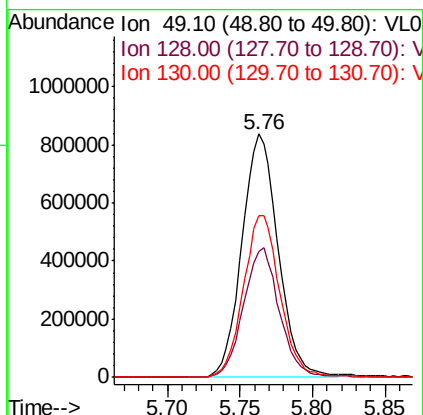
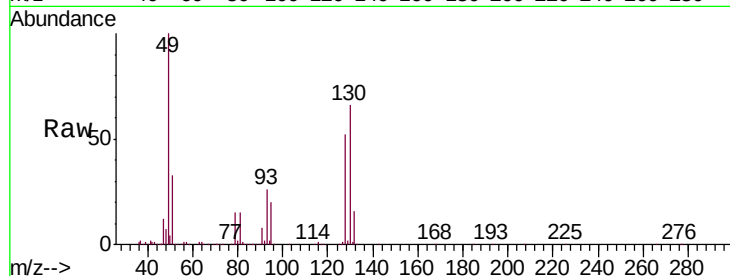




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.01 min
Lab File: VL032889.D
Acq: 4 Dec 2018 23:20

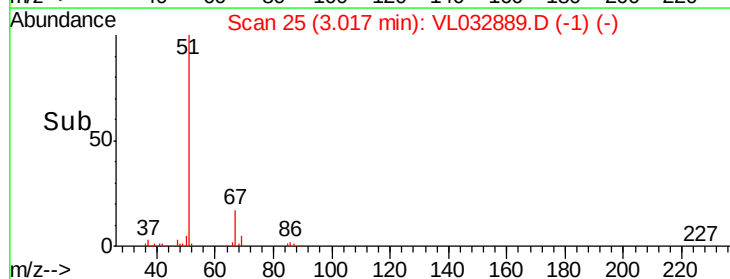
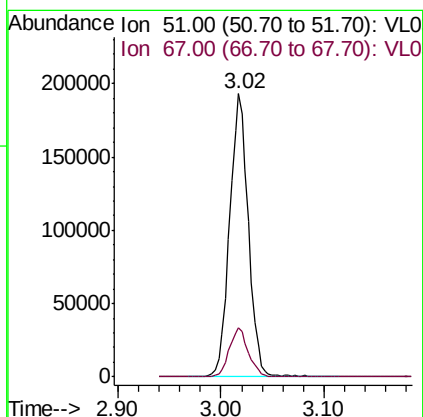
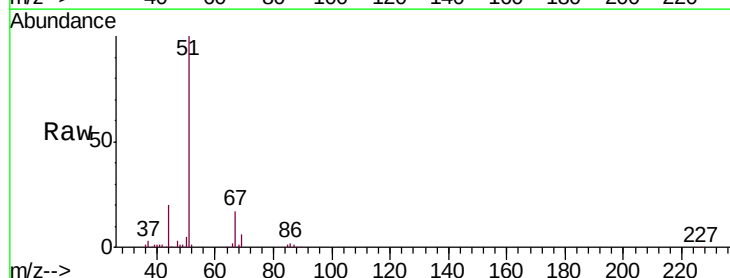
Instrument :
MSVOA_L
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MMSV-03DL

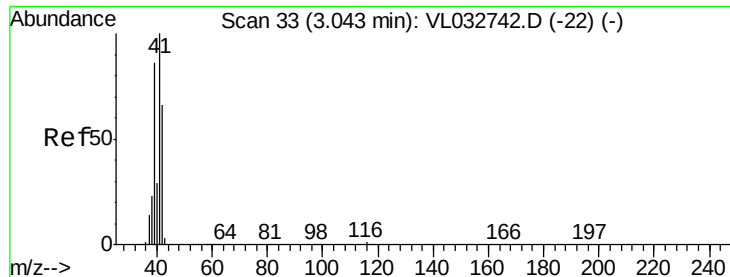
Tgt Ion: 49 Resp: 1453836
Ion Ratio Lower Upper
49 100
128 53.7 24.9 74.6
130 68.0 31.4 94.2



#3
Chlorodifluoromethane
Concen: 2.126 ppbv
RT: 3.02 min Scan# 25
Delta R.T. -0.00 min
Lab File: VL032889.D
Acq: 4 Dec 2018 23:20

Tgt Ion: 51 Resp: 245089
Ion Ratio Lower Upper
51 100
67 17.5 16.1 24.1





#9

Propene

Concen: 1.760 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032889.D

Acq: 4 Dec 2018 23:20

Instrument :

MSVOA_L

ClientSampleId :

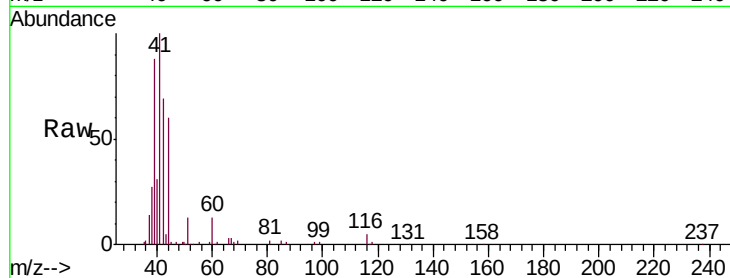
MMSV-03DL

Tgt Ion: 41 Resp: 81165

Ion Ratio Lower Upper

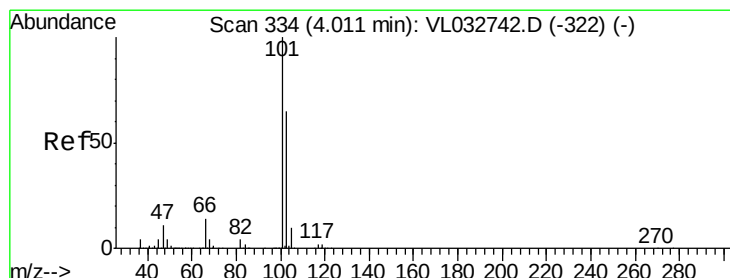
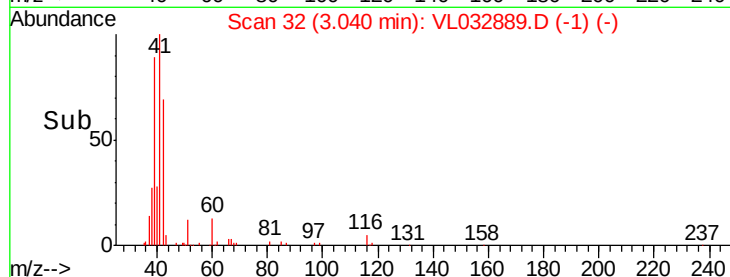
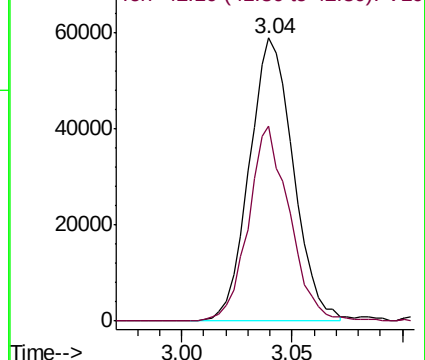
41 100

42 64.6 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: 0.136 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL032889.D

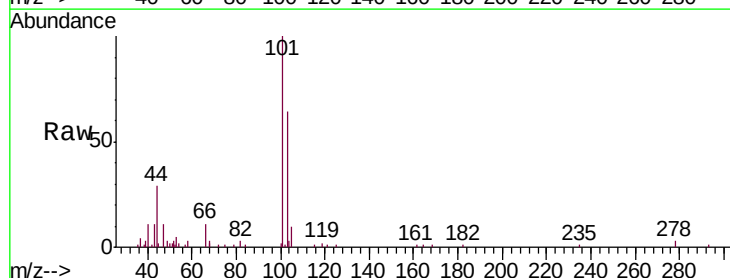
Acq: 4 Dec 2018 23:20

Tgt Ion: 101 Resp: 26854

Ion Ratio Lower Upper

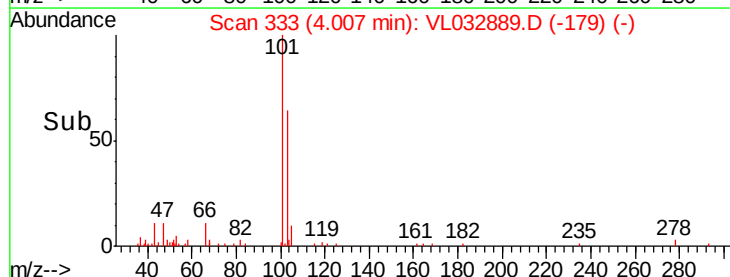
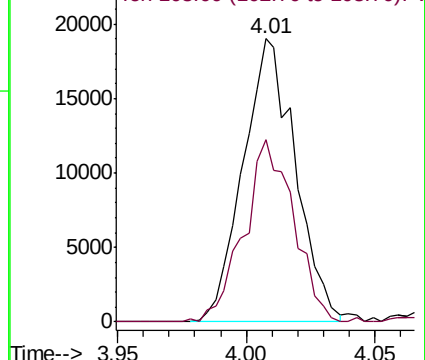
101 100

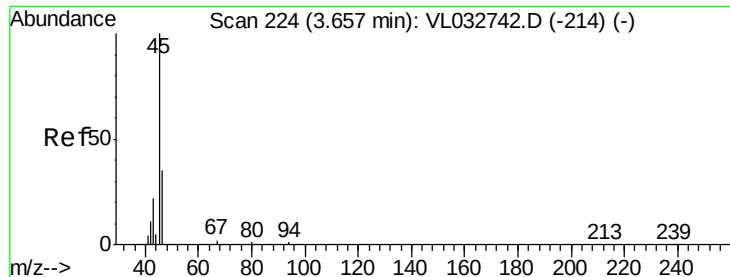
103 64.3 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 1.205 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL032889.D

Acq: 4 Dec 2018 23:20

Instrument :

MSVOA_L

ClientSampleId :

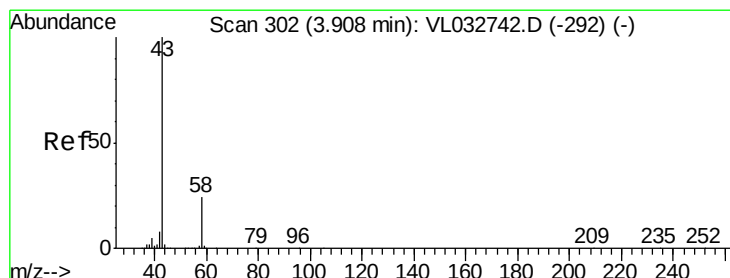
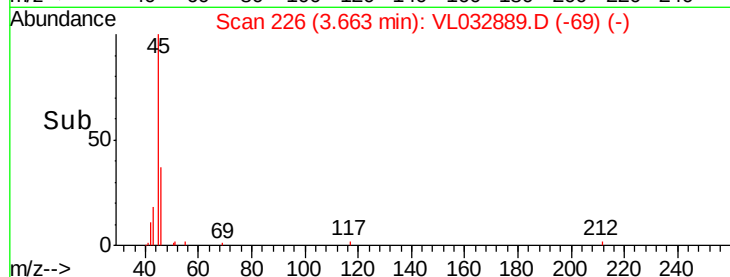
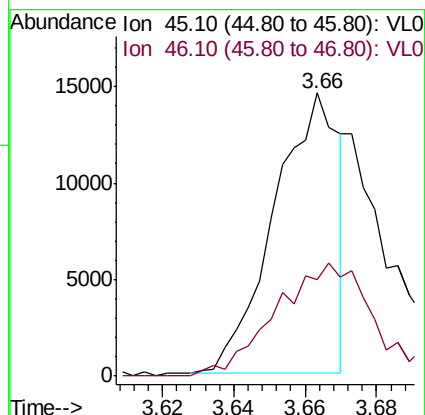
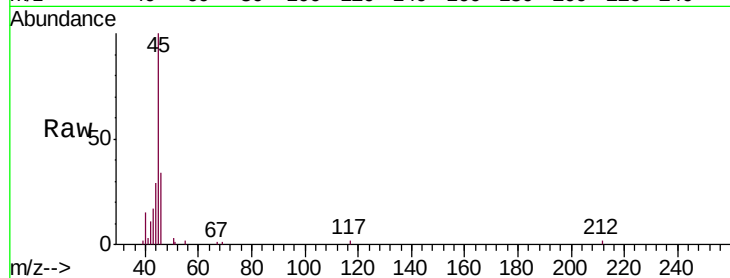
MMSV-03DL

Tgt Ion: 45 Resp: 18199

Ion Ratio Lower Upper

45 100

46 66.6 14.5 57.9#



#15

Acetone

Concen: 1.911 ppbv

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL032889.D

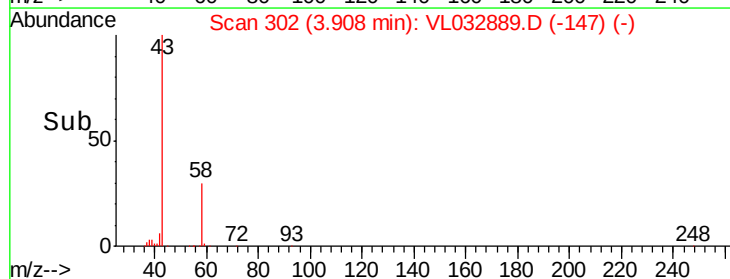
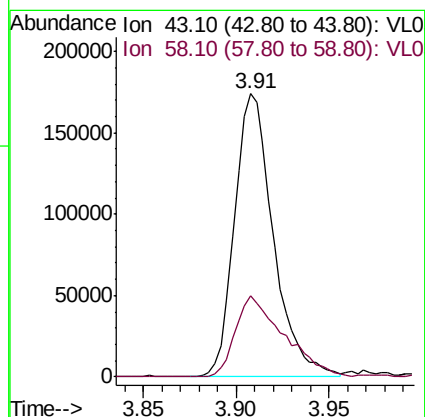
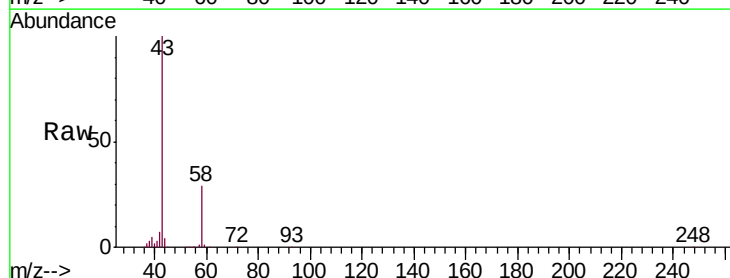
Acq: 4 Dec 2018 23:20

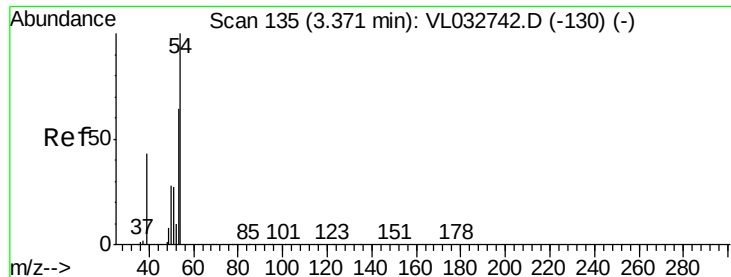
Tgt Ion: 43 Resp: 253707

Ion Ratio Lower Upper

43 100

58 35.9 21.1 31.7#

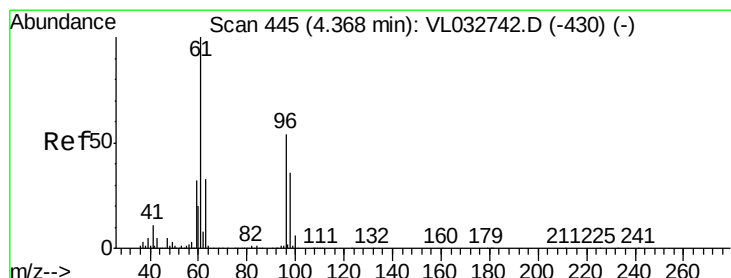
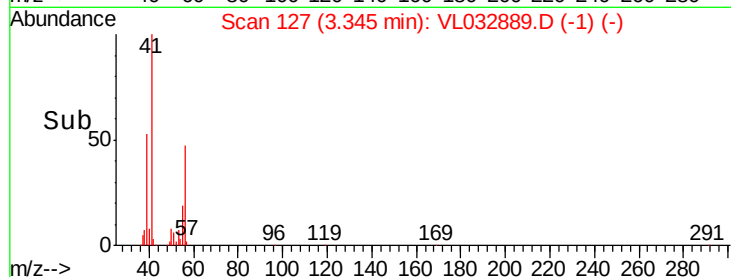
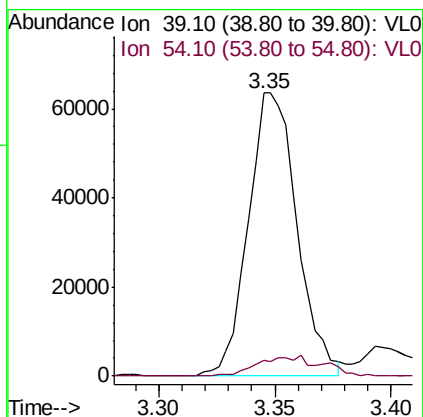
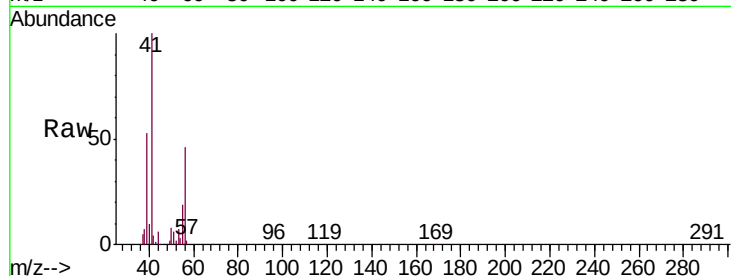




#16
1,3-Butadiene
Concen: 1.803 ppbv
RT: 3.35 min Scan# 127
Delta R.T. -0.03 min
Lab File: VL032889.D
Acq: 4 Dec 2018 23:20

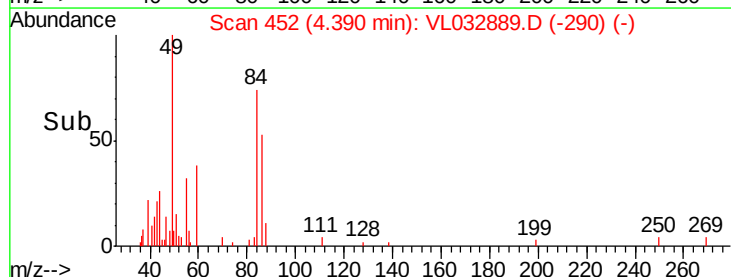
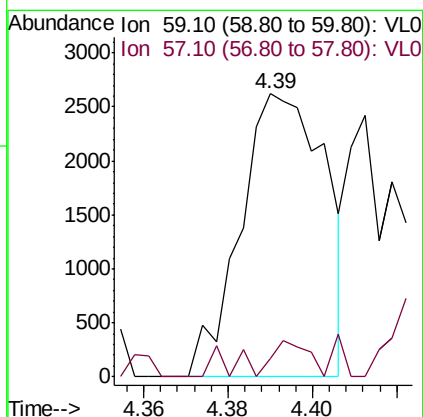
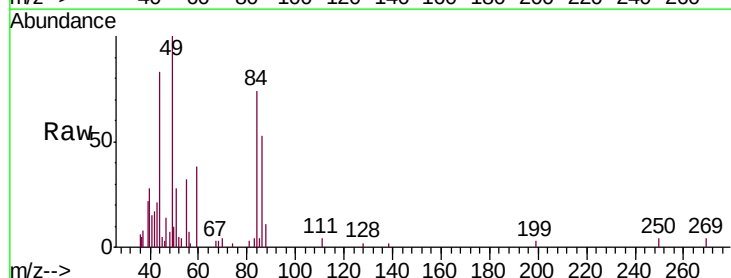
Instrument :
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ClientSampleId :
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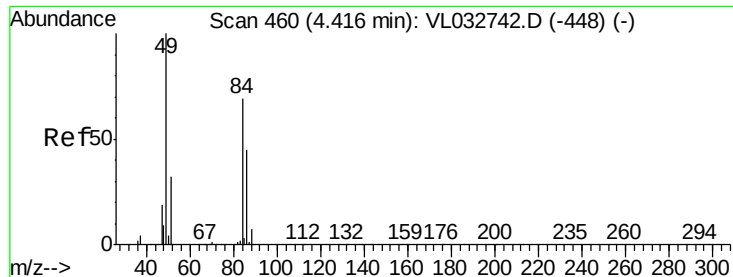
Tgt Ion: 39 Resp: 92716
Ion Ratio Lower Upper
39 100
54 9.4 68.9 103.3#



#17
tert-Butyl alcohol
Concen: 0.088 ppbv
RT: 4.39 min Scan# 452
Delta R.T. 0.02 min
Lab File: VL032889.D
Acq: 4 Dec 2018 23:20

Tgt Ion: 59 Resp: 3675
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

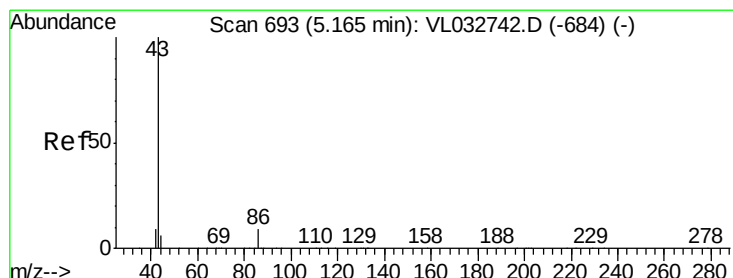
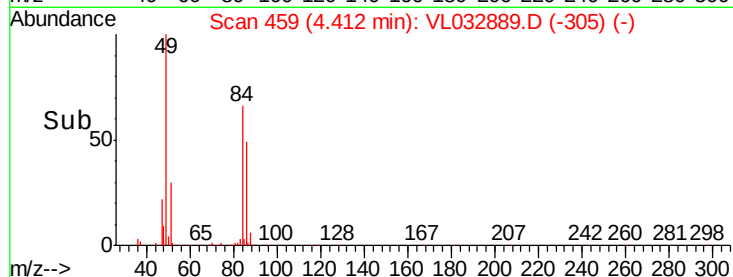
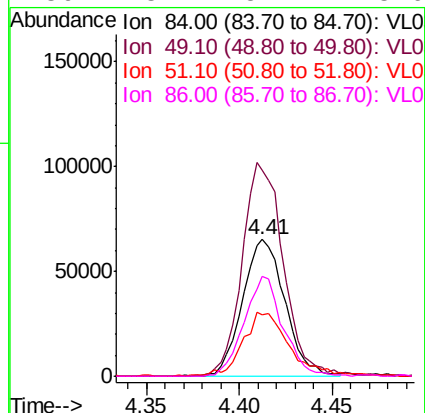
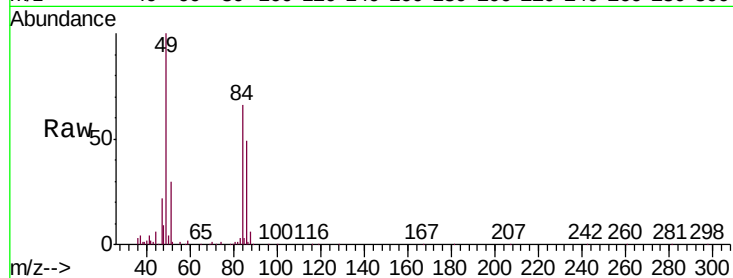




#20
Methylene Chloride
Concen: 1.510 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032889.D
Acq: 4 Dec 2018 23:20

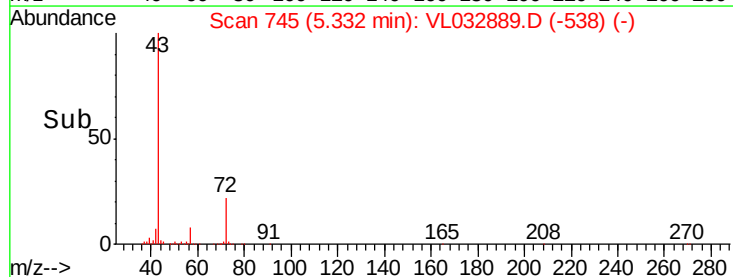
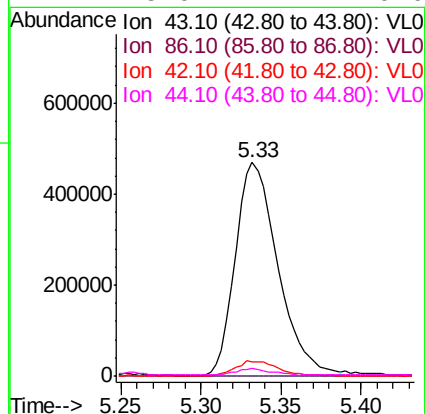
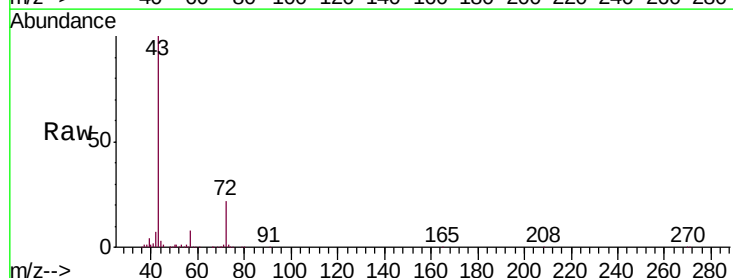
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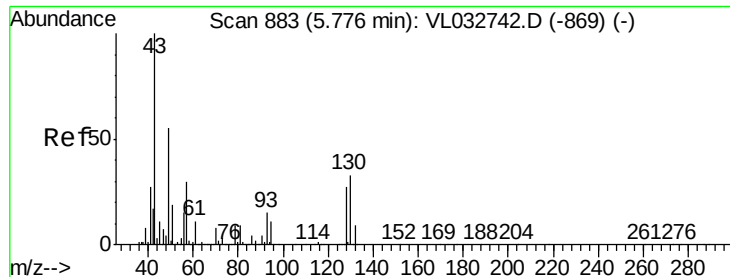
Tgt Ion:	84	Resp:	103771
Ion	Ratio	Lower	Upper
84	100		
49	150.0	115.8	173.6
51	44.0	36.9	55.3
86	73.4	52.4	78.6



#23
Vinyl Acetate
Concen: 3.516 ppbv
RT: 5.33 min Scan# 745
Delta R.T. 0.17 min
Lab File: VL032889.D
Acq: 4 Dec 2018 23:20

Tgt Ion:	43	Resp:	850992
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#
42	6.8	7.8	11.6#
44	3.0	4.4	6.6#

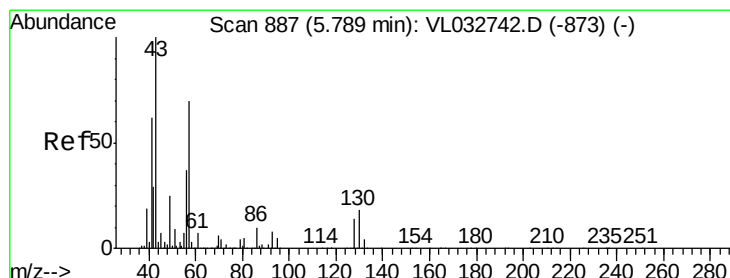
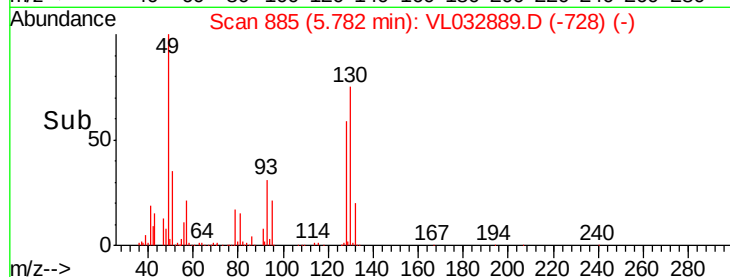
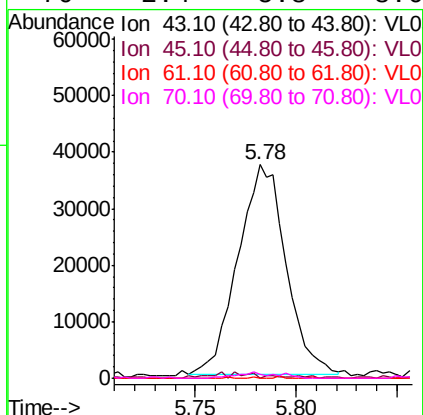
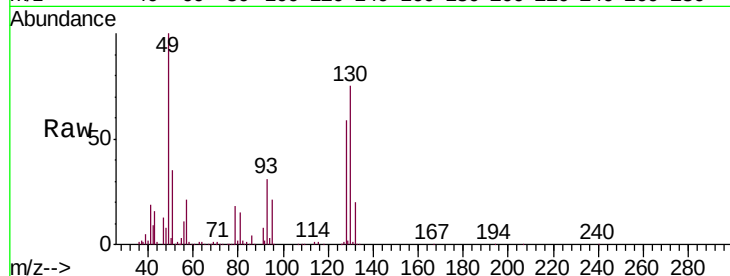




#25
Ethyl Acetate
Concen: 0.202 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL032889.D
Acq: 4 Dec 2018 23:20

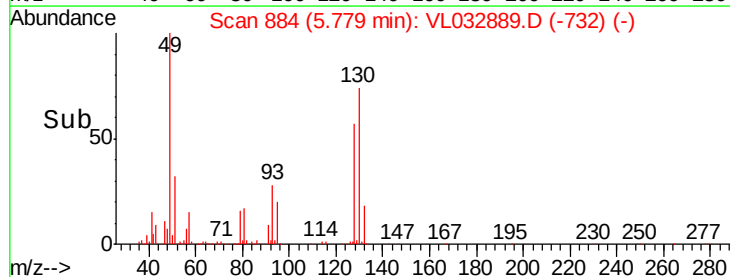
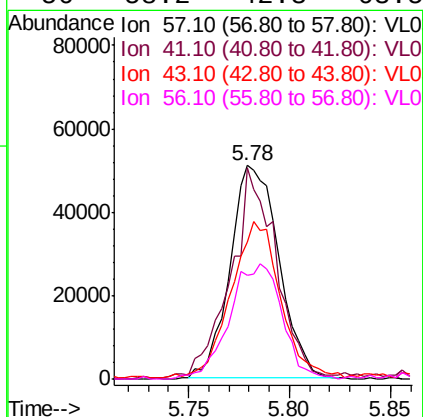
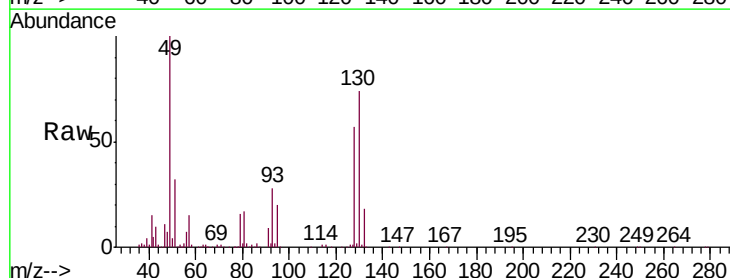
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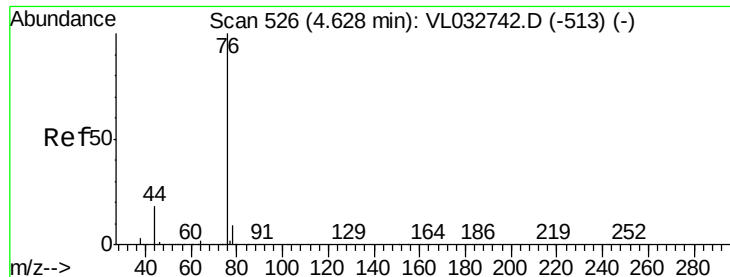
Tgt Ion:	43	Resp:	62454
Ion	Ratio	Lower	Upper
43	100		
45	2.5	7.9	11.9#
61	0.2	7.8	11.6#
70	2.4	5.8	8.6#



#26
Hexane
Concen: 0.628 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032889.D
Acq: 4 Dec 2018 23:20

Tgt Ion:	57	Resp:	86489
Ion	Ratio	Lower	Upper
57	100		
41	95.6	70.3	105.5
43	75.5	174.0	261.0#
56	58.2	42.3	63.5





#27

Carbon Disulfide

Concen: 0.111 ppbv

RT: 4.63 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL032889.D

Acq: 4 Dec 2018 23:20

Instrument :

MSVOA_L

ClientSampleId :

MMSV-03DL

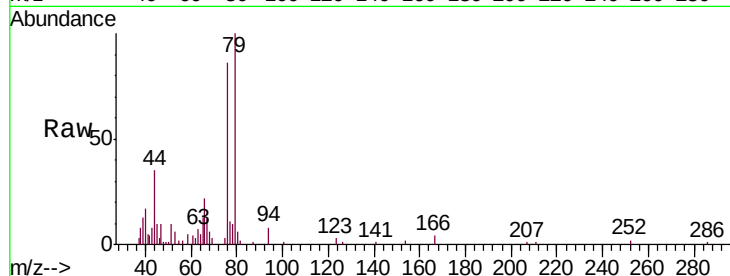
Tgt Ion: 76 Resp: 19460

Ion Ratio Lower Upper

76 100

44 58.2 14.4 21.6#

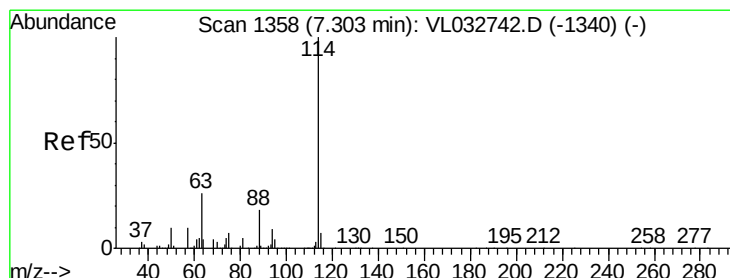
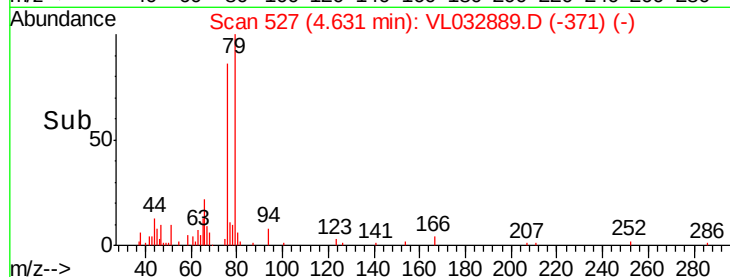
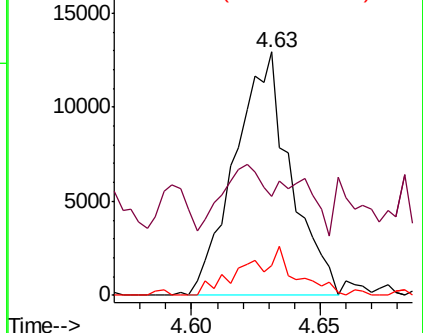
78 18.5 7.7 11.5#



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: VL032889.D

Acq: 4 Dec 2018 23:20

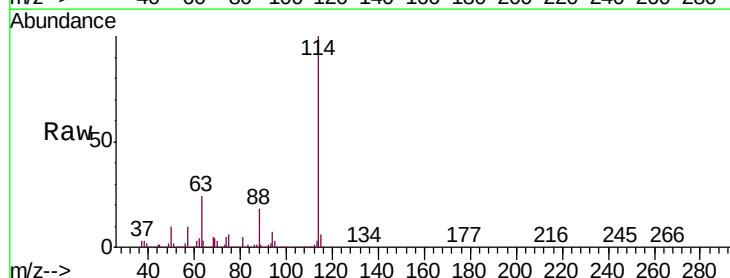
Tgt Ion: 114 Resp: 3608168

Ion Ratio Lower Upper

114 100

63 23.8 20.9 31.3

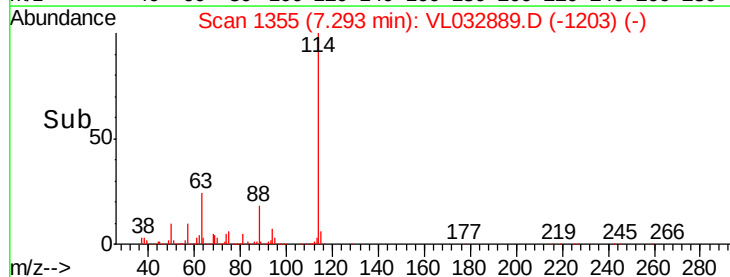
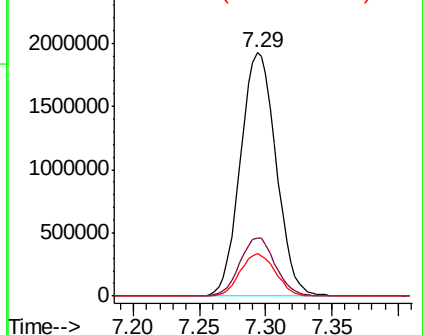
88 17.4 14.4 21.6

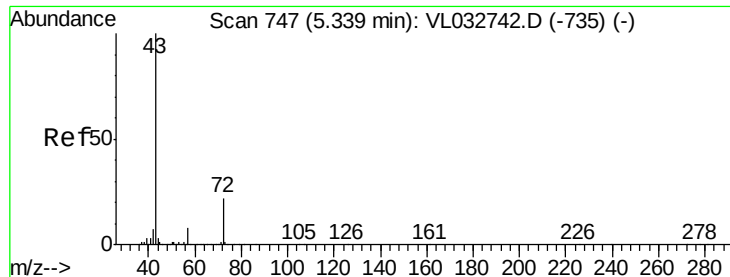


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

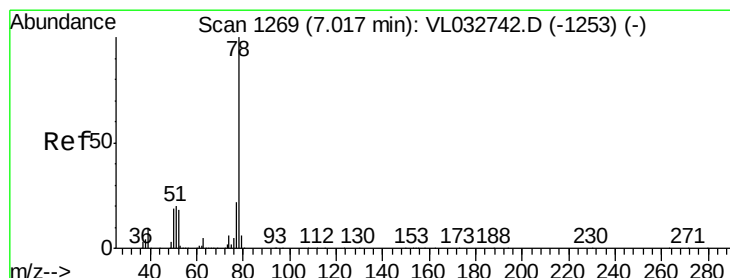
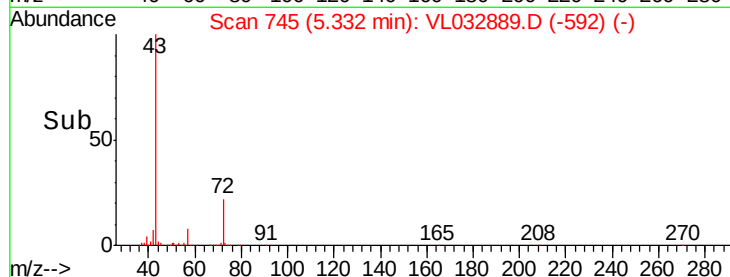
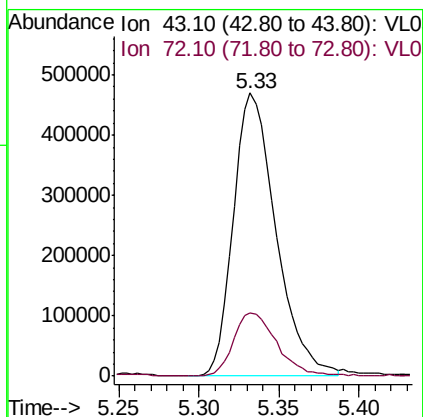
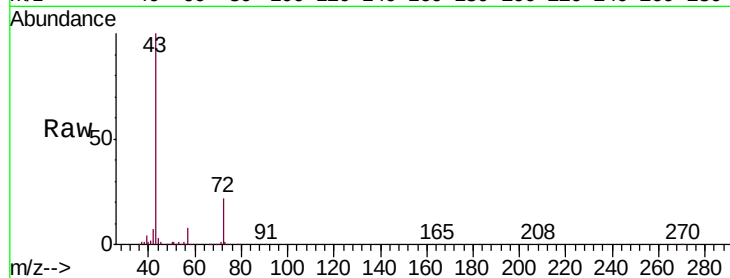




#34
2-Butanone
Concen: 4.547 ppbv
RT: 5.33 min Scan# 745
Delta R.T. -0.01 min
Lab File: VL032889.D
Acq: 4 Dec 2018 23:20

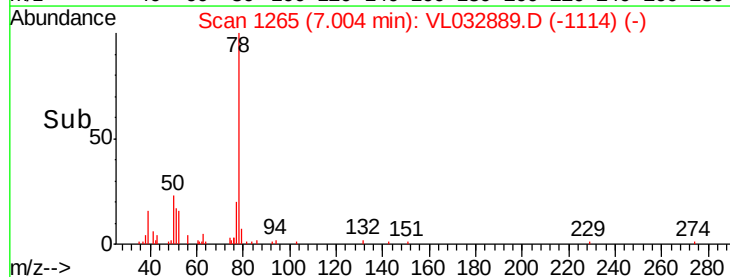
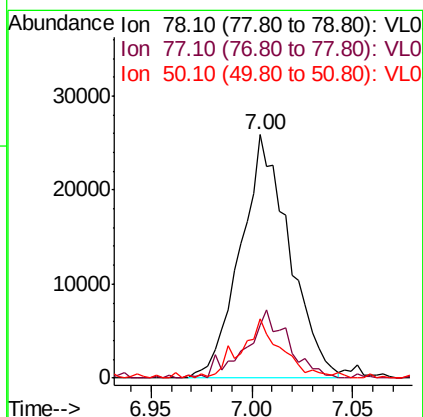
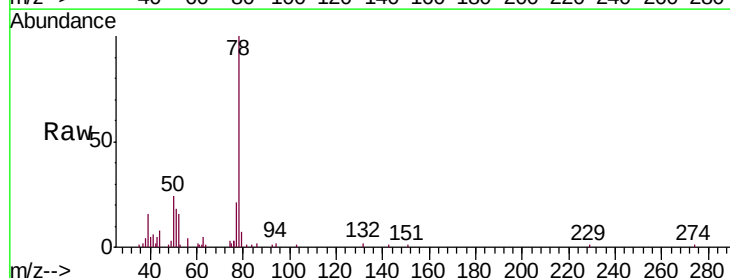
Instrument :
MSVOA_L
ClientSampleId :
MMSV-03DL

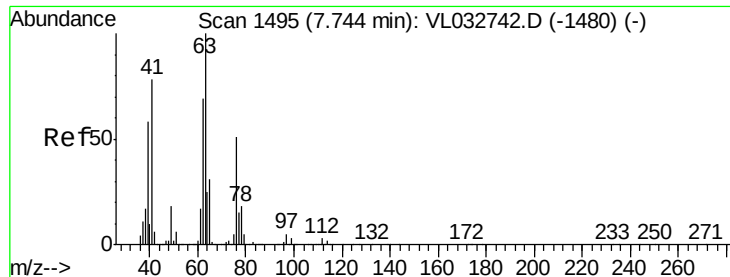
Tgt Ion: 43 Resp: 850992
Ion Ratio Lower Upper
43 100
72 23.2 18.4 27.6



#36
Benzene
Concen: 0.152 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL032889.D
Acq: 4 Dec 2018 23:20

Tgt Ion: 78 Resp: 43795
Ion Ratio Lower Upper
78 100
77 21.5 17.8 26.8
50 23.1 15.4 23.0#





#39

1,2-Dichloropropane

Concen: 7.795 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032889.D

Acq: 4 Dec 2018 23:20

Instrument :

MSVOA_L

ClientSampleId :

MMSV-03DL

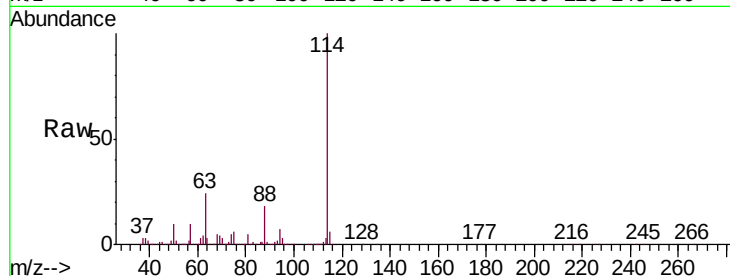
Tgt Ion: 63 Resp: 853313

Ion Ratio Lower Upper

63 100

41 0.2 62.0 93.0#

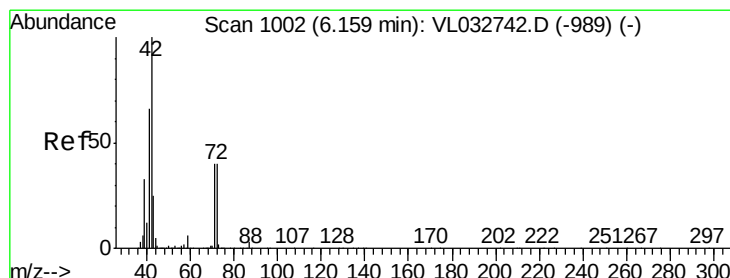
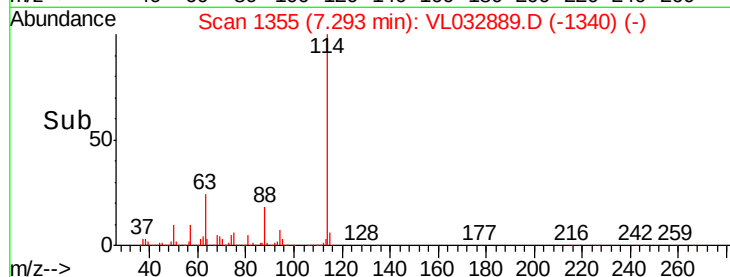
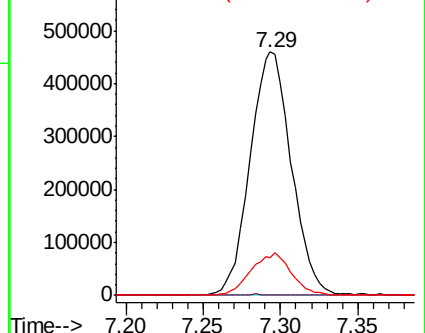
62 15.6 55.4 83.2#



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: 1.306 ppbv

RT: 6.16 min Scan# 1004

Delta R.T. 0.01 min

Lab File: VL032889.D

Acq: 4 Dec 2018 23:20

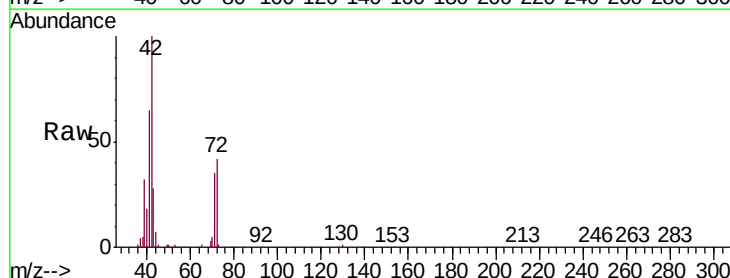
Tgt Ion: 42 Resp: 140242

Ion Ratio Lower Upper

42 100

72 43.3 32.4 48.6

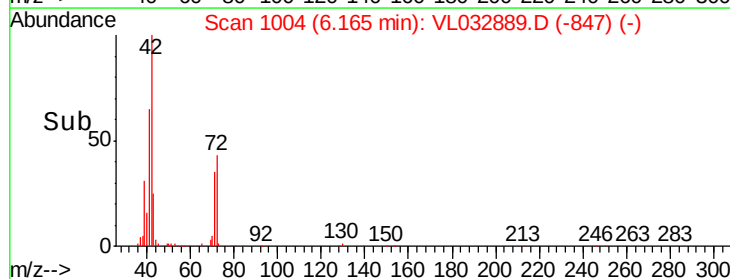
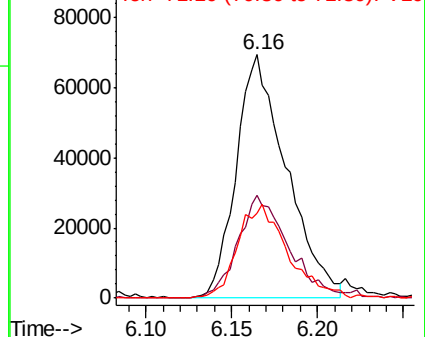
71 39.1 31.6 47.4

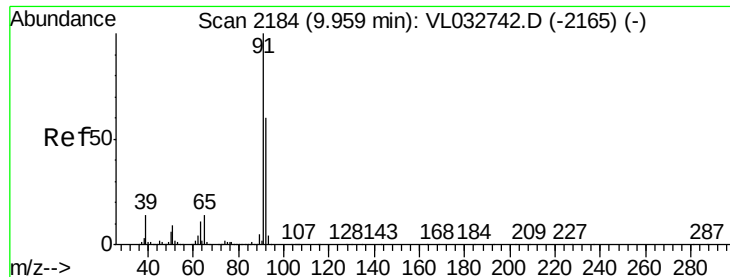


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.110 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL032889.D

Acq: 4 Dec 2018 23:20

Instrument :

MSVOA_L

ClientSampleId :

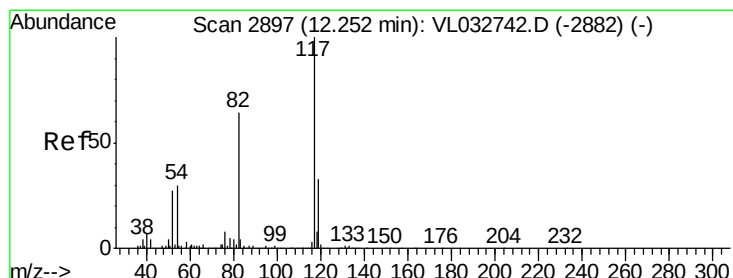
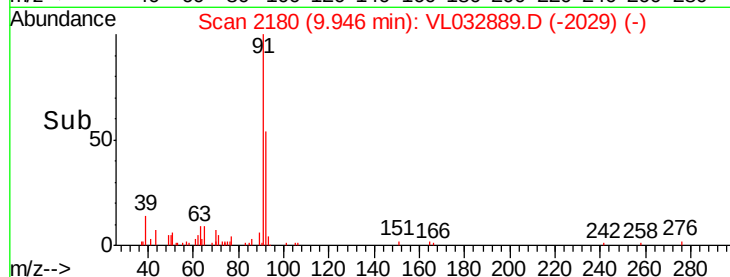
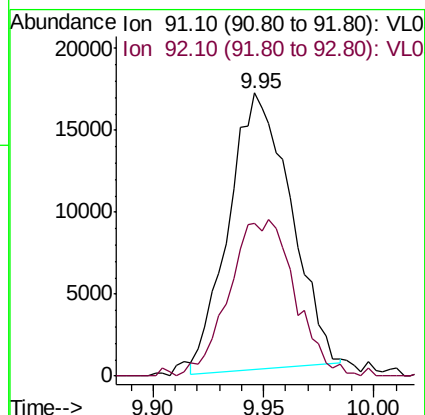
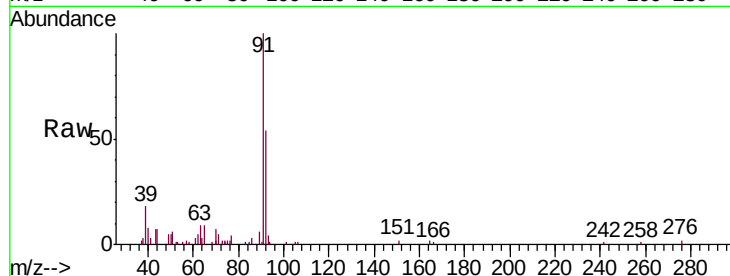
MMSV-03DL

Tgt Ion: 91 Resp: 32833

Ion Ratio Lower Upper

91 100

92 60.6 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032889.D

Acq: 4 Dec 2018 23:20

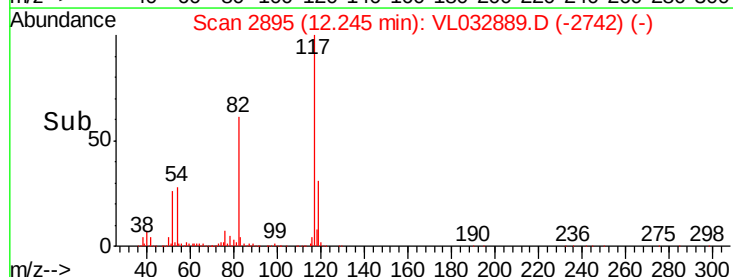
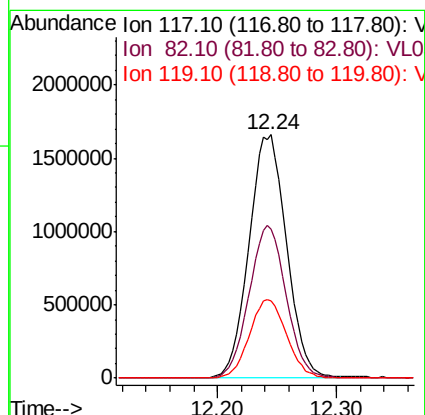
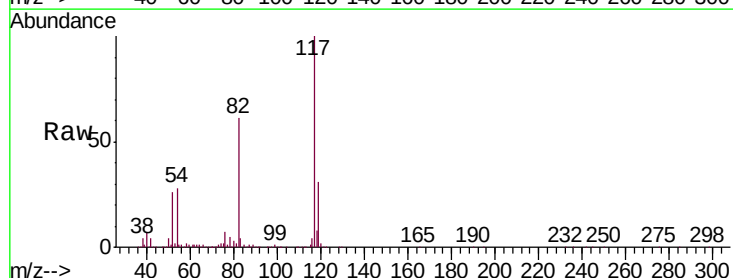
Tgt Ion: 117 Resp: 3629127

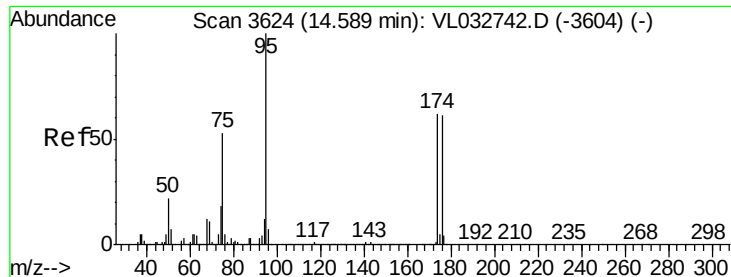
Ion Ratio Lower Upper

117 100

82 62.7 51.0 76.6

119 32.1 28.0 42.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.534 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL032889.D

Acq: 4 Dec 2018 23:20

Instrument :

MSVOA_L

ClientSampleId :

MMSV-03DL

Tgt Ion: 95 Resp: 2587821

Ion Ratio Lower Upper

95 100

174 67.0 50.7 76.1

175 5.0 3.8 5.6

