

Data File : VL033277.D
Acq On : 12 Mar 2019 5:31
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Mar 12 06:45:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 04:49:55 2019
QLast Update : Tue Mar 12 04:49:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	917989	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2086879	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2074732	10.00	ppbv	0.00

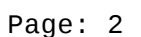
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1637488 9.86 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 98.60%

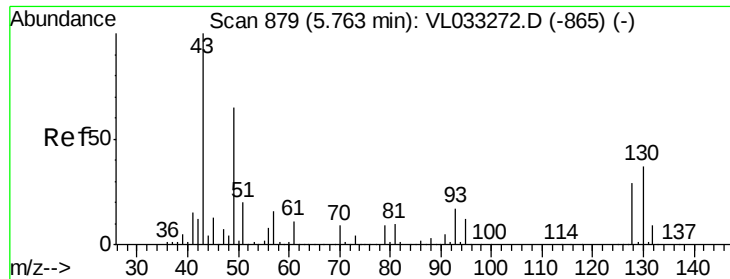
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.22	85	5902	0.031 ppbv	93
3) Chlorodifluoromethane	3.02	51	4971	0.043 ppbv	99
5) Vinyl Chloride	3.30	62	2248	0.038 ppbv #	44
7) Chloroethane	3.61	64	441	0.020 ppbv #	56
8) Dichlorotetrafluoroethane	3.22	85	5902	0.039 ppbv	94
9) Propene	3.04	41	1059	0.021 ppbv #	1
12) 1,1,2-Trichlorotrifluoroet	4.55	101	3113	0.031 ppbv #	14
13) Ethanol	3.67	45	1181	0.082 ppbv #	40
18) 1,1-Dichloroethene	4.35	96	1303	0.030 ppbv #	19
20) Methylene Chloride	4.41	84	3935	0.087 ppbv #	64
23) Vinyl Acetate	5.17	43	6169	0.039 ppbv #	86
26) Hexane	5.78	57	2686	0.027 ppbv #	1
27) Carbon Disulfide	4.62	76	2882	0.029 ppbv #	77
29) Chloroform	5.85	83	5848	0.039 ppbv #	63
31) cis-1,2-Dichloroethene	5.64	61	2249	0.024 ppbv #	30
32) 1,1,1-Trichloroethane	6.62	97	3600	0.025 ppbv #	64
36) Benzene	7.00	78	4552	0.025 ppbv #	90
37) 1,2-Dichloroethane	6.42	62	4884	0.041 ppbv #	96
39) 1,2-Dichloropropane	7.29	63	571471	8.097 ppbv #	24
57) Chlorobenzene	12.30	112	4083	0.027 ppbv #	40

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

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ClientSampleId :

VSTDIC0.03

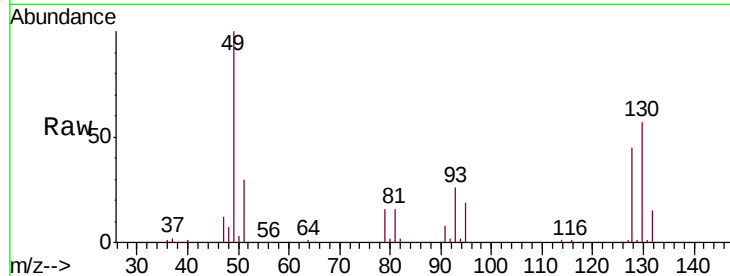
Tgt Ion: 49 Resp: 917989

Ion Ratio Lower Upper

49 100

128 45.4 23.3 69.9

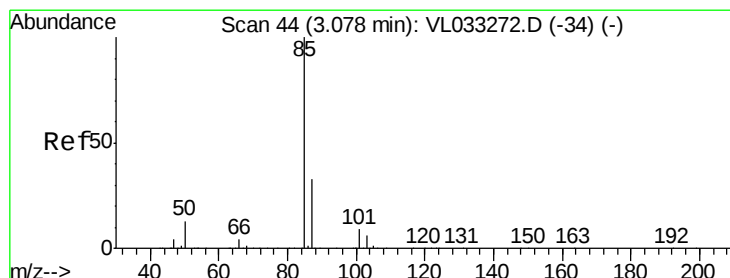
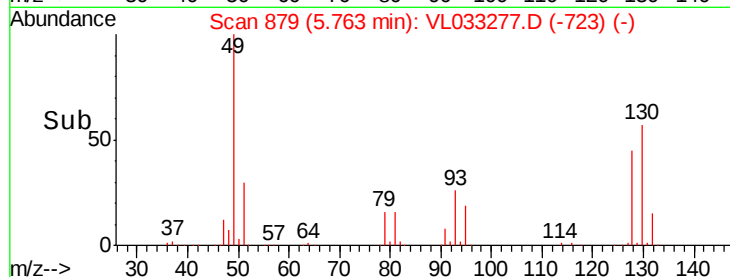
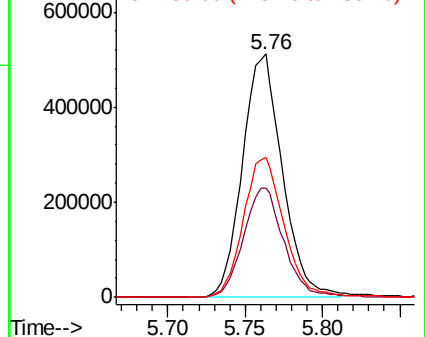
130 59.0 30.0 90.1



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: 0.031 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.14 min

Lab File: VL033277.D

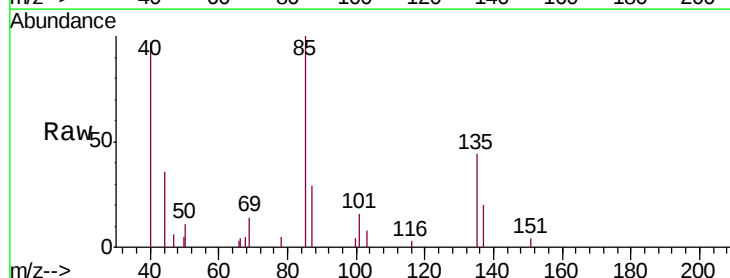
Acq: 12 Mar 2019 5:31

Tgt Ion: 85 Resp: 5902

Ion Ratio Lower Upper

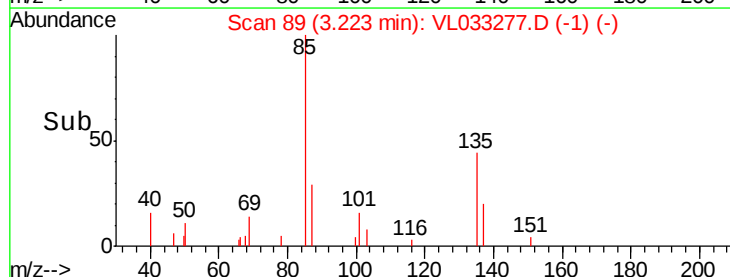
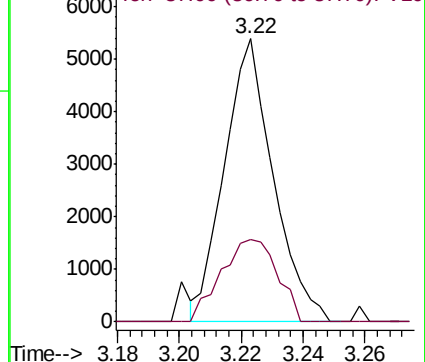
85 100

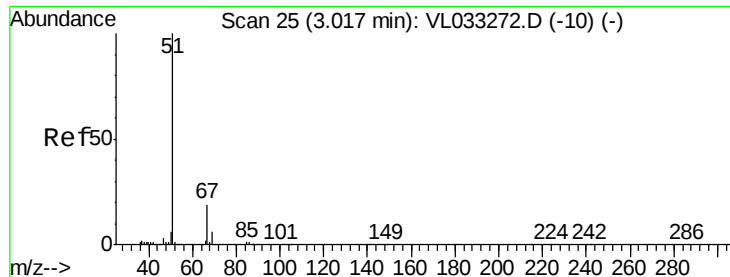
87 29.1 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

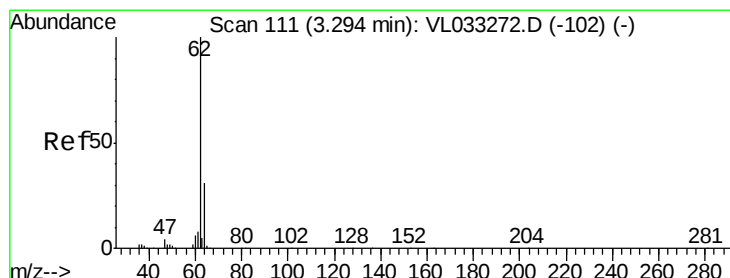
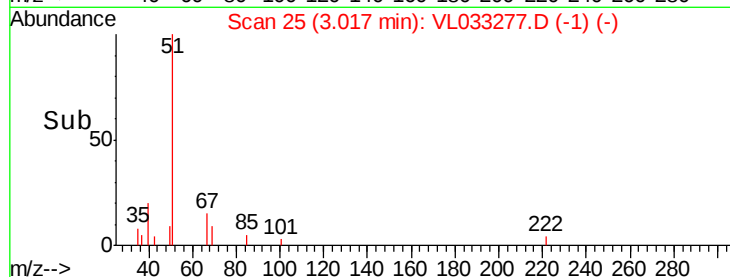
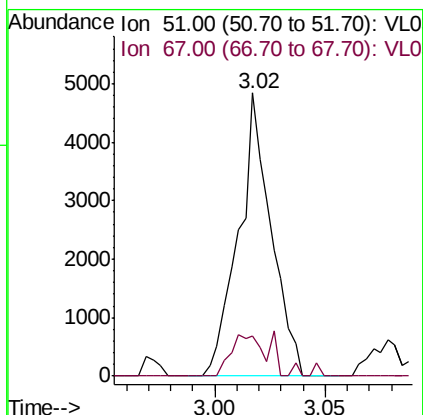
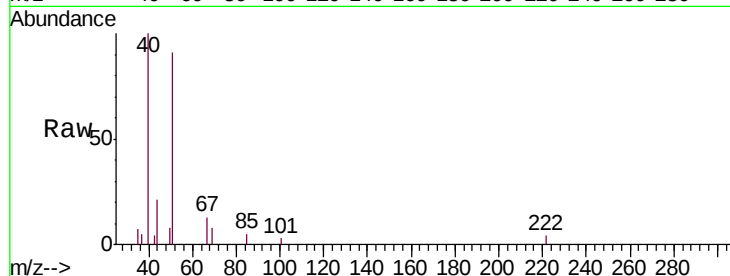




#3
Chlorodifluoromethane
Concen: 0.043 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL033277.D
Acq: 12 Mar 2019 5:31

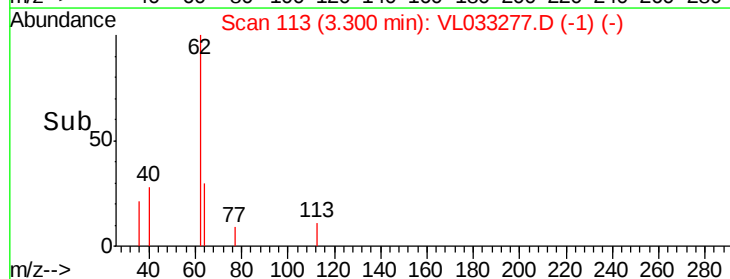
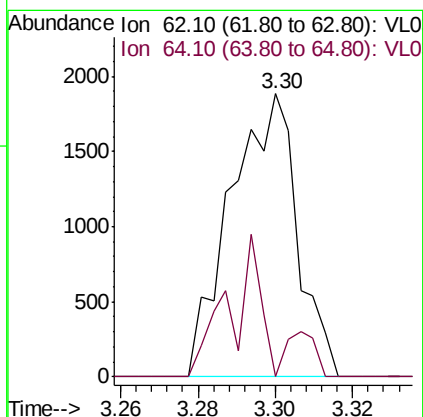
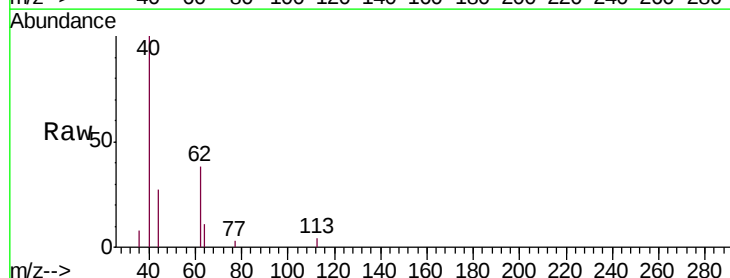
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

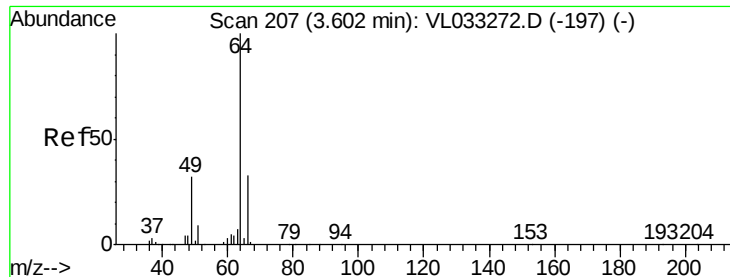
Tgt Ion: 51 Resp: 4971
Ion Ratio Lower Upper
51 100
67 18.2 15.0 22.4



#5
Vinyl Chloride
Concen: 0.038 ppbv
RT: 3.30 min Scan# 113
Delta R.T. 0.01 min
Lab File: VL033277.D
Acq: 12 Mar 2019 5:31

Tgt Ion: 62 Resp: 2248
Ion Ratio Lower Upper
62 100
64 0.0 24.5 36.7#





#7

Chloroethane

Concen: 0.020 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

Instrument :

MSVOA_L

ClientSampleId :

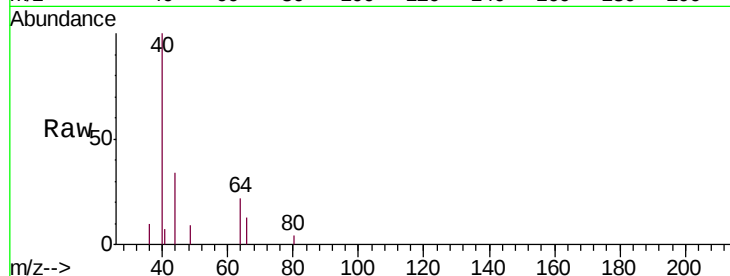
VSTDIC0.03

Tgt Ion: 64 Resp: 441

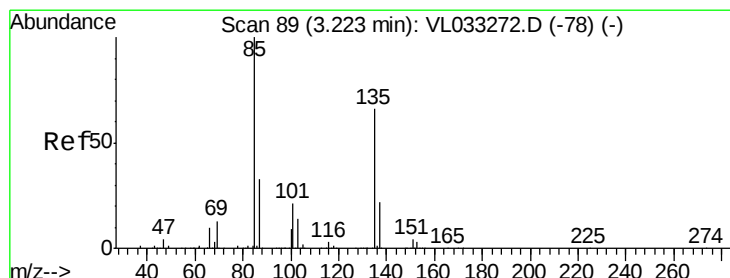
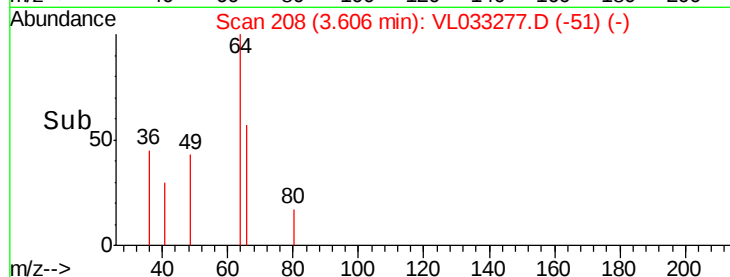
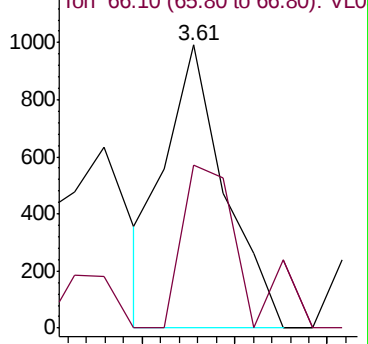
Ion Ratio Lower Upper

64 100

66 57.5 26.2 39.2#



Abundance Ion 64.10 (63.80 to 64.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.039 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033277.D

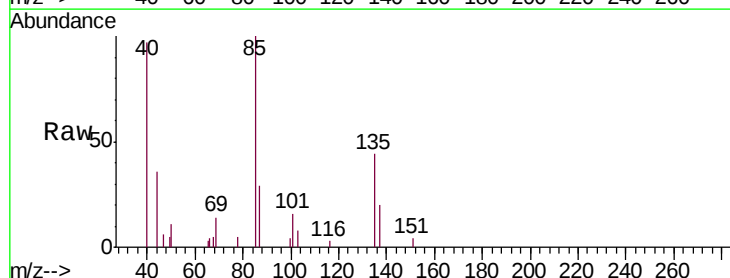
Acq: 12 Mar 2019 5:31

Tgt Ion: 85 Resp: 5902

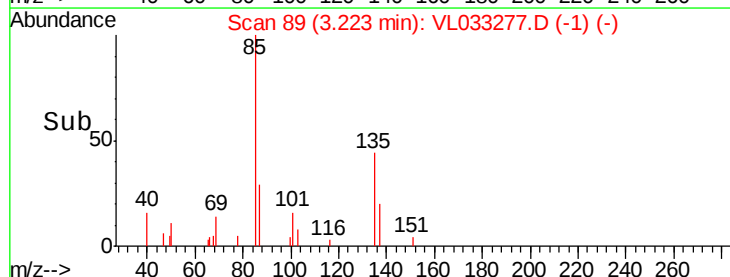
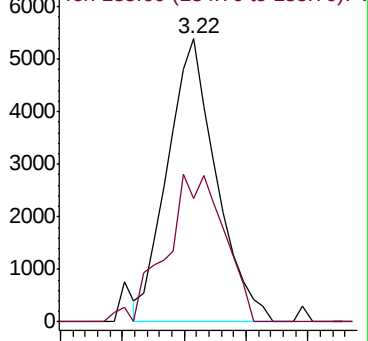
Ion Ratio Lower Upper

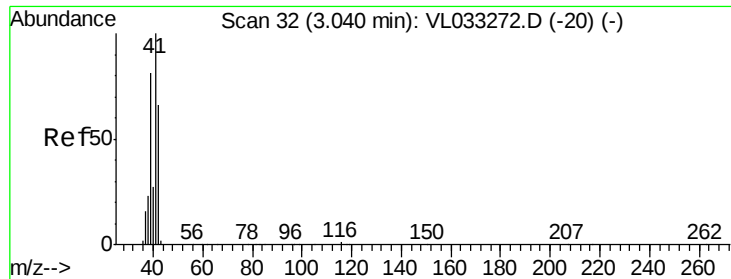
85 100

135 62.3 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0





#9

Propene

Concen: 0.021 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

Instrument :

MSVOA_L

ClientSampleId :

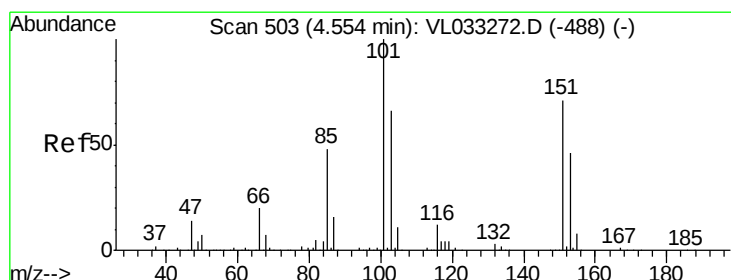
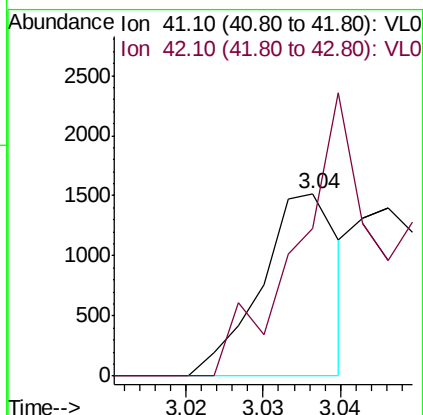
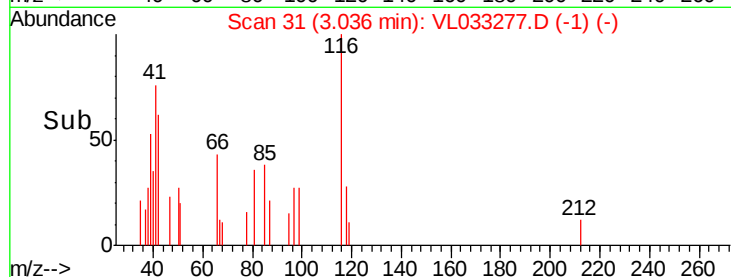
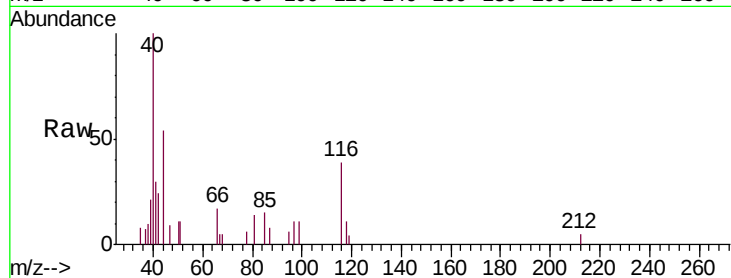
VSTDIC0.03

Tgt Ion: 41 Resp: 1059

Ion Ratio Lower Upper

41 100

42 193.3 54.6 82.0#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033277.D

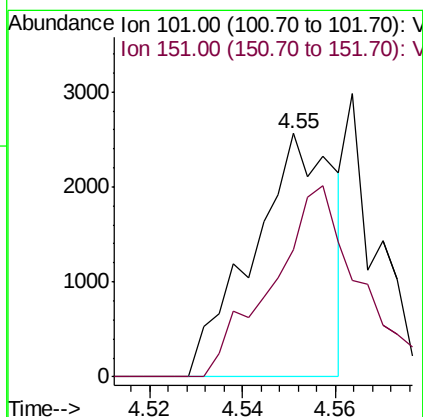
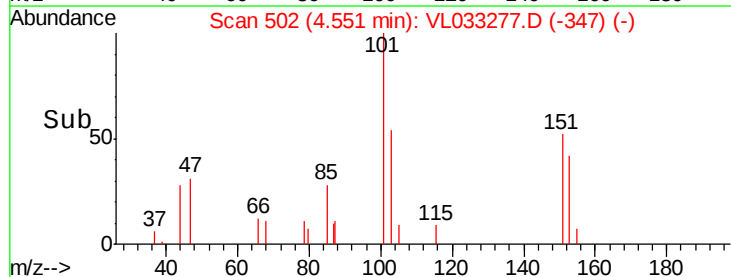
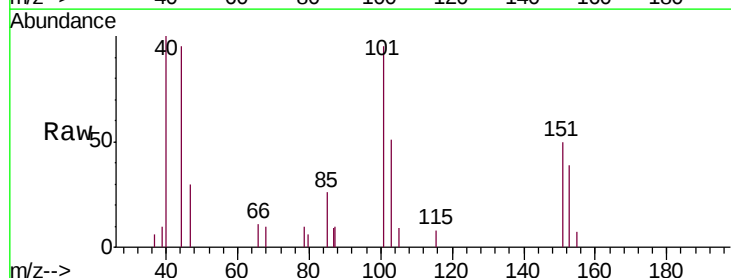
Acq: 12 Mar 2019 5:31

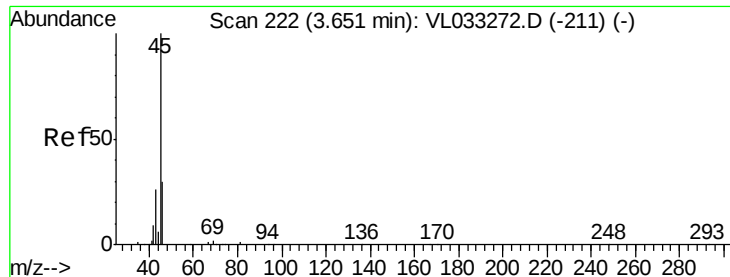
Tgt Ion: 101 Resp: 3113

Ion Ratio Lower Upper

101 100

151 0.0 56.9 85.3#





#13

Ethanol

Concen: 0.082 ppbv

RT: 3.67 min Scan# 229

Delta R.T. 0.02 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

Instrument :

MSVOA_L

ClientSampleId :

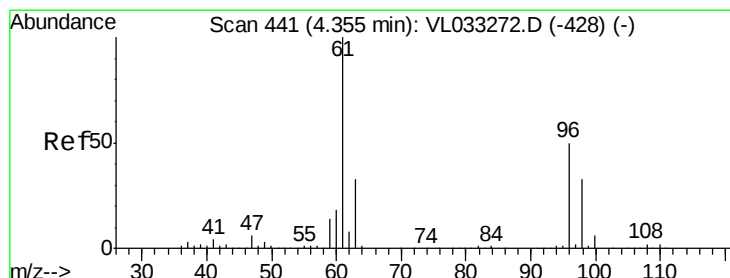
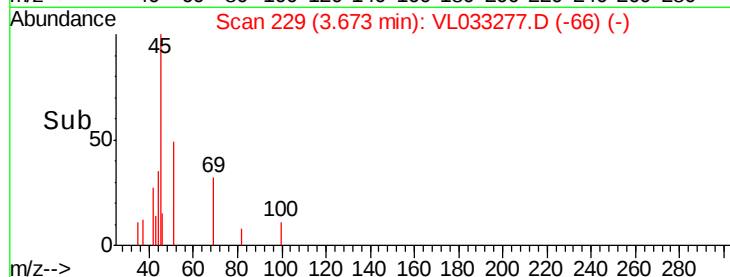
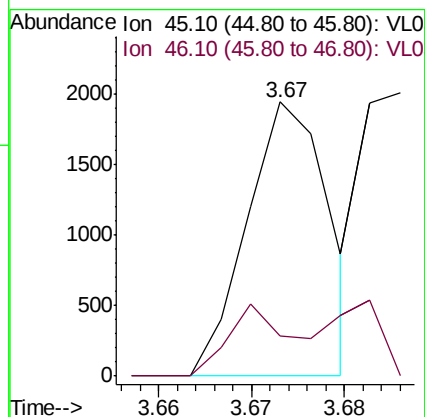
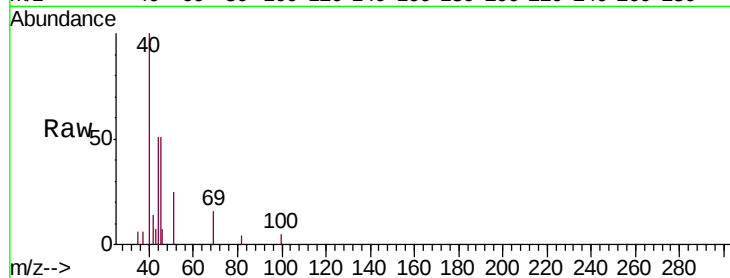
VSTDIC0.03

Tgt Ion: 45 Resp: 1181

Ion Ratio Lower Upper

45 100

46 0.0 13.9 55.7#



#18

1,1-Dichloroethene

Concen: 0.030 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.01 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

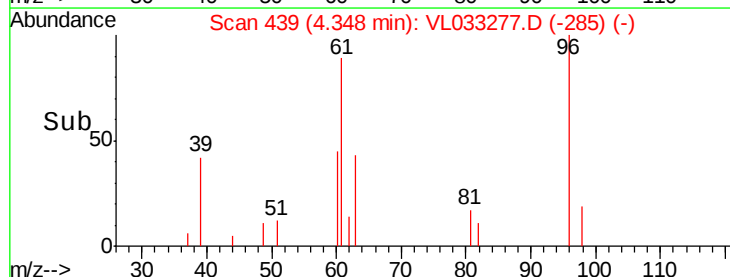
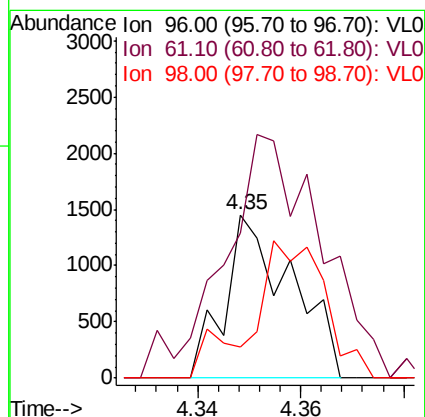
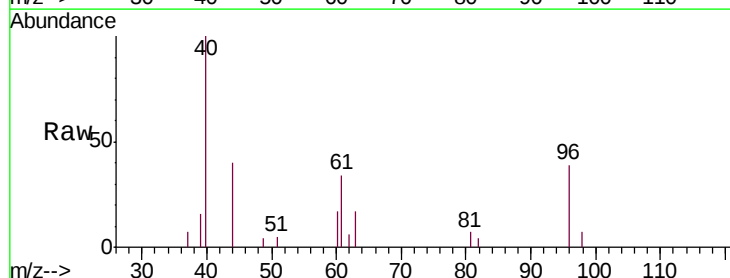
Tgt Ion: 96 Resp: 1303

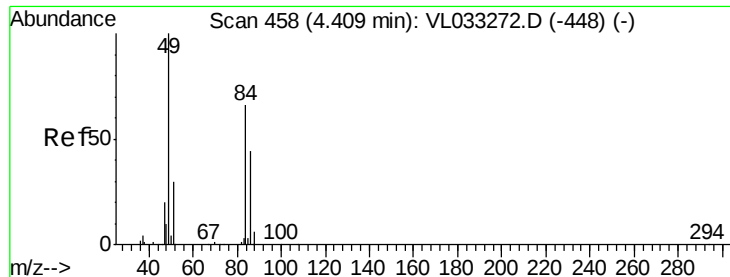
Ion Ratio Lower Upper

96 100

61 64.5 158.9 238.3#

98 19.1 52.4 78.6#

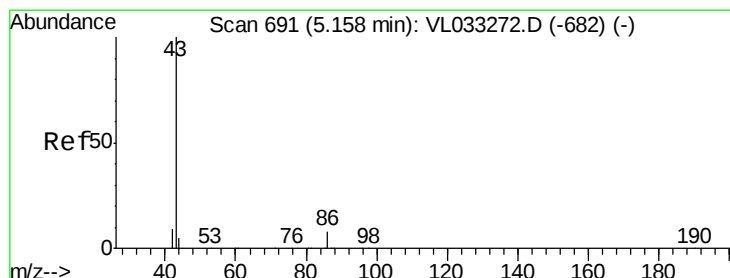
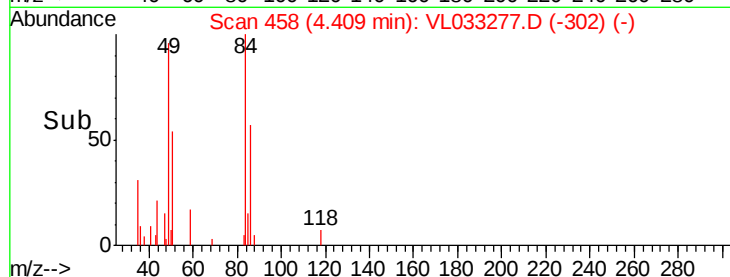
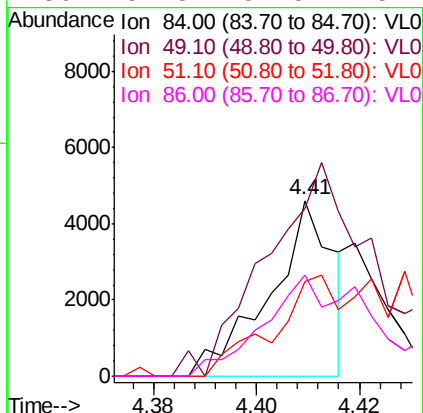
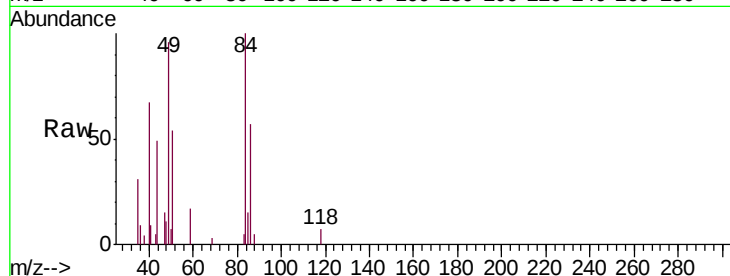




#20
Methylene Chloride
Concen: 0.087 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033277.D
Acq: 12 Mar 2019 5:31

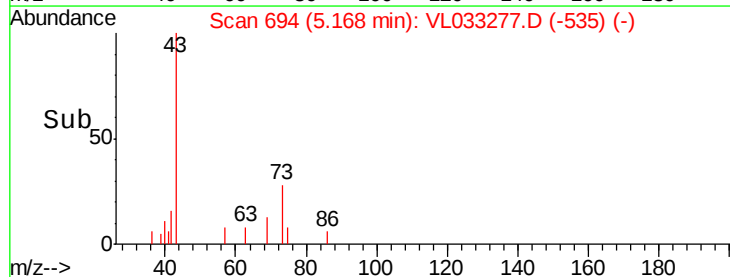
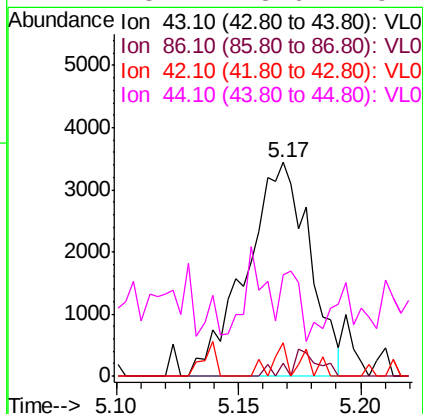
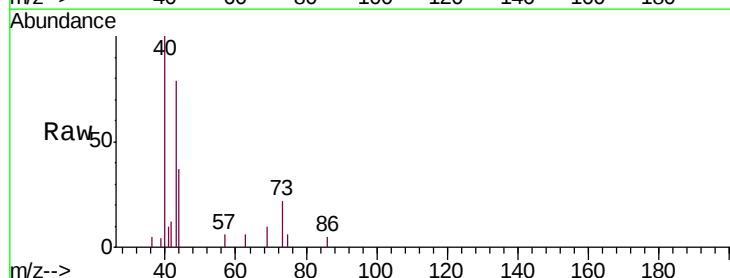
Instrument :
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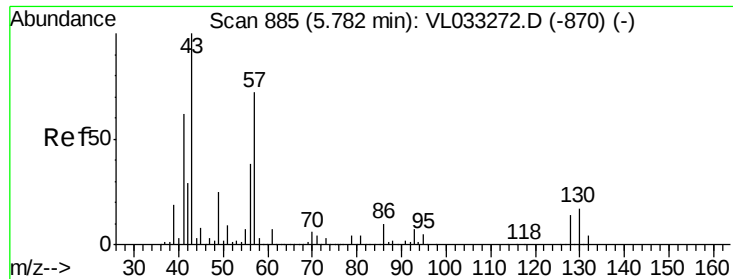
Tgt Ion:	84	Resp:	3935
Ion	Ratio	Lower	Upper
84	100		
49	81.4	120.3	180.5#
51	53.7	36.2	54.4
86	57.3	52.5	78.7



#23
Vinyl Acetate
Concen: 0.039 ppbv
RT: 5.17 min Scan# 694
Delta R.T. 0.01 min
Lab File: VL033277.D
Acq: 12 Mar 2019 5:31

Tgt Ion:	43	Resp:	6169
Ion	Ratio	Lower	Upper
43	100		
86	6.1	5.5	8.3
42	15.8	7.8	11.6#
44	13.7	3.6	5.4#

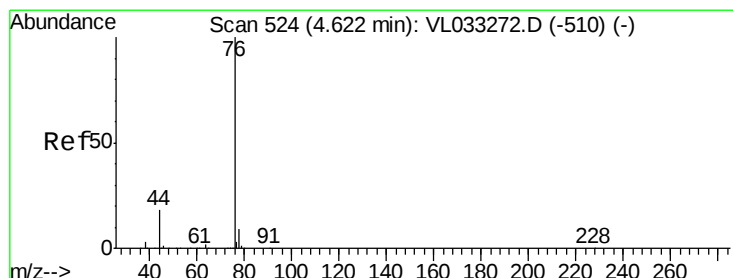
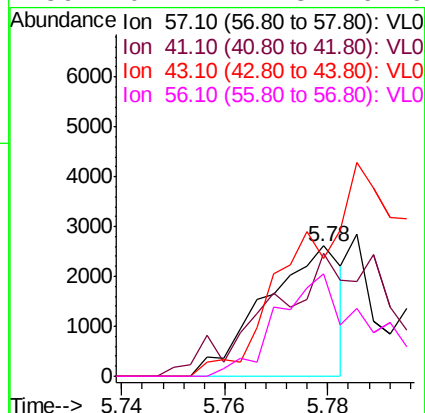
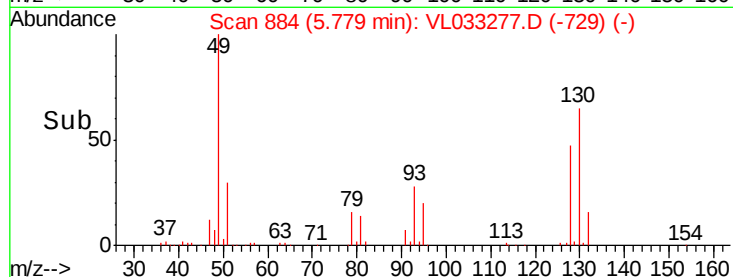
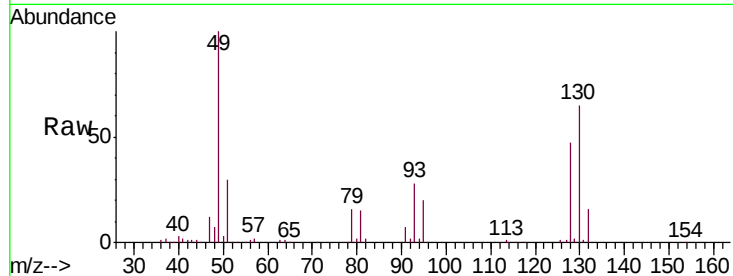




#26
Hexane
Concen: 0.027 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033277.D
Acq: 12 Mar 2019 5:31

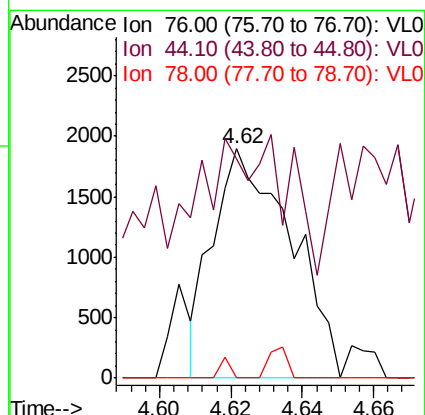
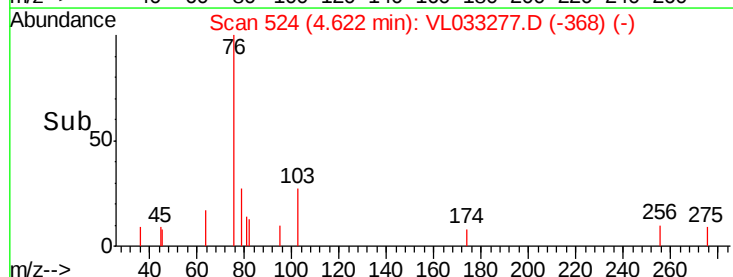
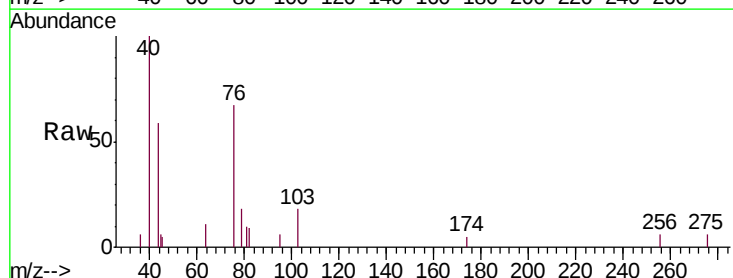
Instrument :
MSVOA_L
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VSTDIC0.03

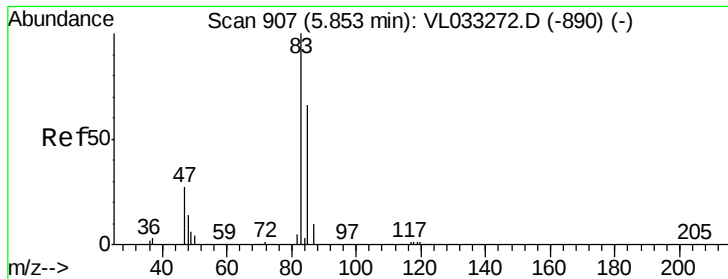
Tgt Ion: 57 Resp: 2686
Ion Ratio Lower Upper
57 100
41 153.6 70.7 106.1#
43 0.0 178.6 267.8#
56 101.7 41.3 61.9#



#27
Carbon Disulfide
Concen: 0.029 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.00 min
Lab File: VL033277.D
Acq: 12 Mar 2019 5:31

Tgt Ion: 76 Resp: 2882
Ion Ratio Lower Upper
76 100
44 31.1 15.1 22.7#
78 4.4 7.4 11.0#

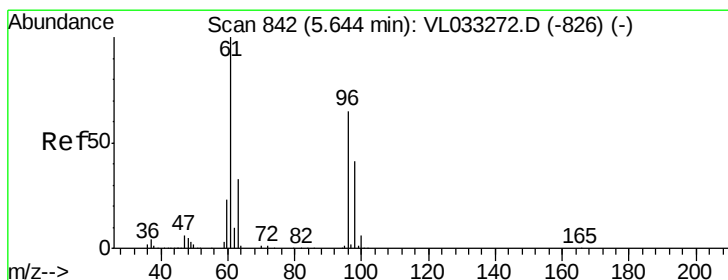
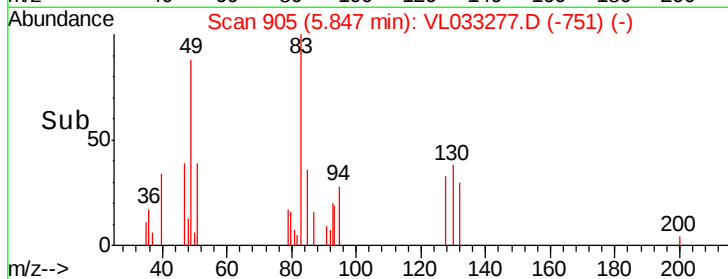
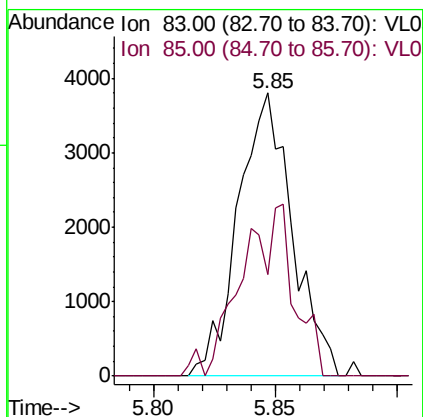
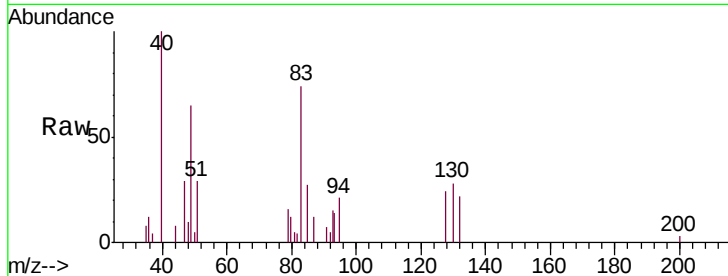




#29
Chloroform
Concen: 0.039 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL033277.D
Acq: 12 Mar 2019 5:31

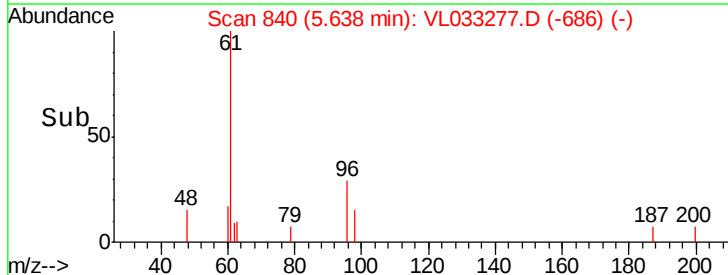
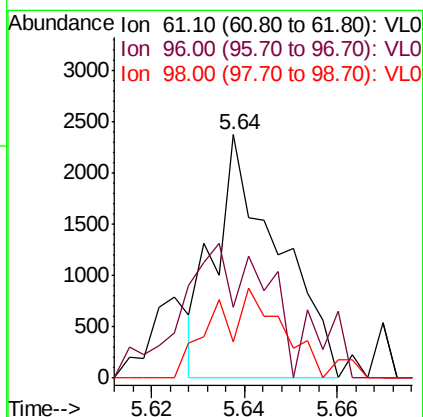
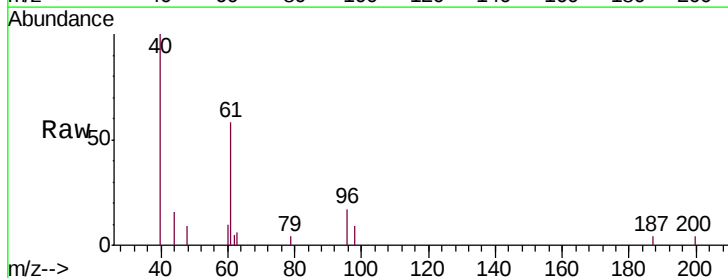
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

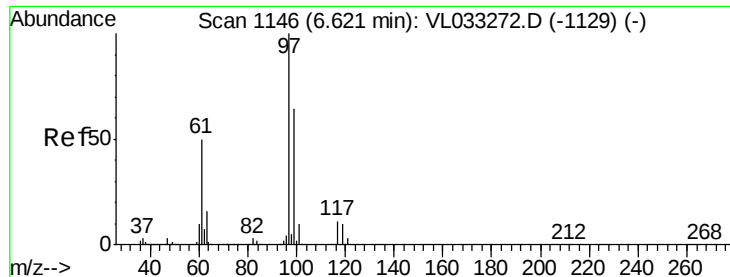
Tgt Ion: 83 Resp: 5848
Ion Ratio Lower Upper
83 100
85 36.1 52.5 78.7#



#31
cis-1,2-Dichloroethene
Concen: 0.024 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.01 min
Lab File: VL033277.D
Acq: 12 Mar 2019 5:31

Tgt Ion: 61 Resp: 2249
Ion Ratio Lower Upper
61 100
96 1.8 51.8 77.8#
98 7.7 32.9 49.3#





#32

1,1,1-Trichloroethane

Concen: 0.025 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

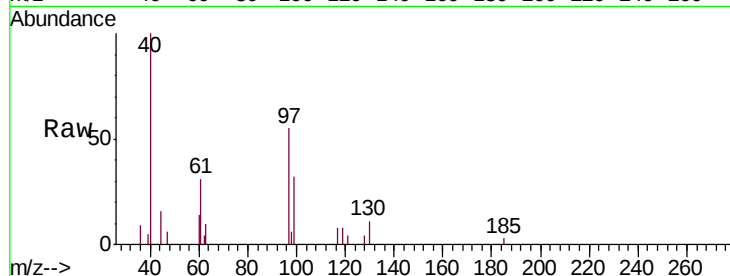
Tgt Ion: 97 Resp: 3600

Ion Ratio Lower Upper

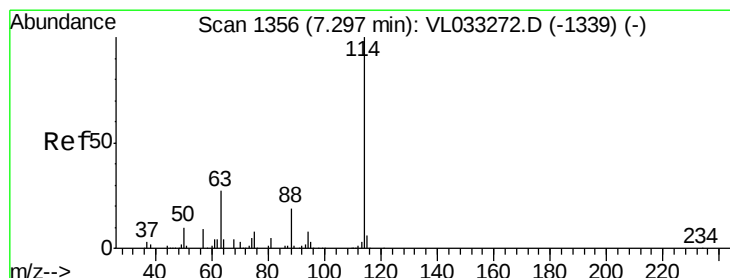
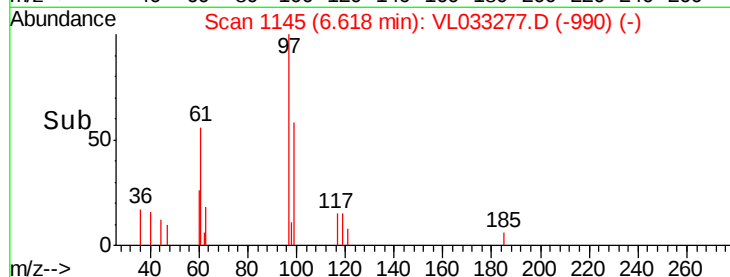
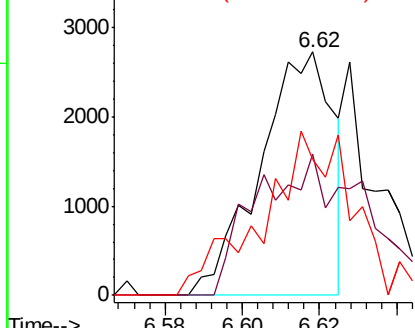
97 100

99 85.3 51.7 77.5#

61 83.7 39.7 59.5#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

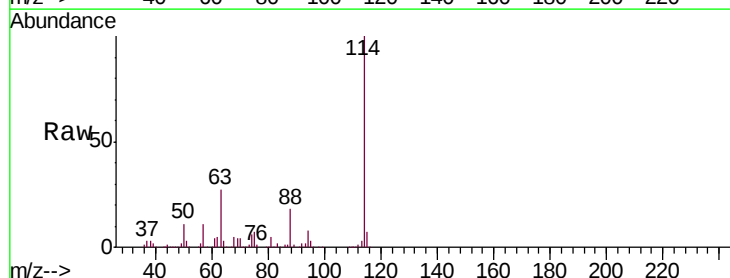
Tgt Ion: 114 Resp: 2086879

Ion Ratio Lower Upper

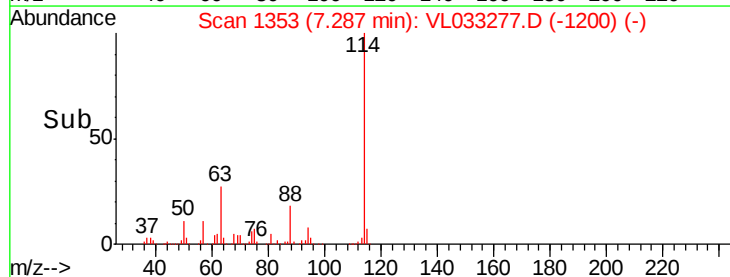
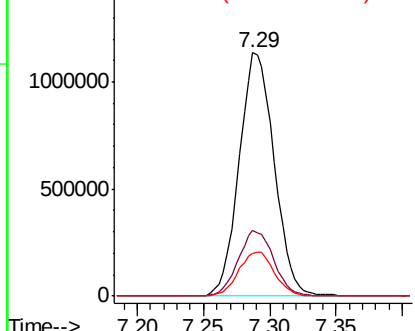
114 100

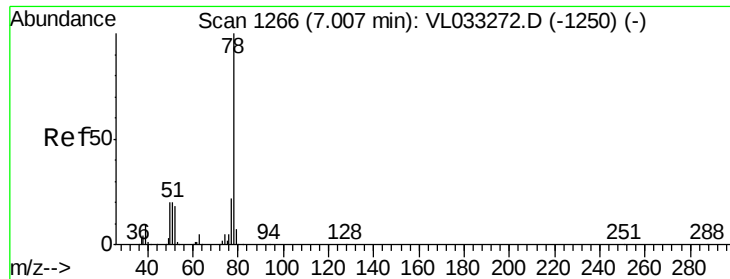
63 27.5 21.5 32.3

88 18.4 14.6 22.0



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





#36

Benzene

Concen: 0.025 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

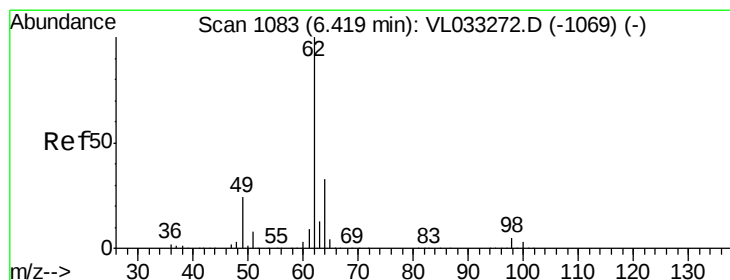
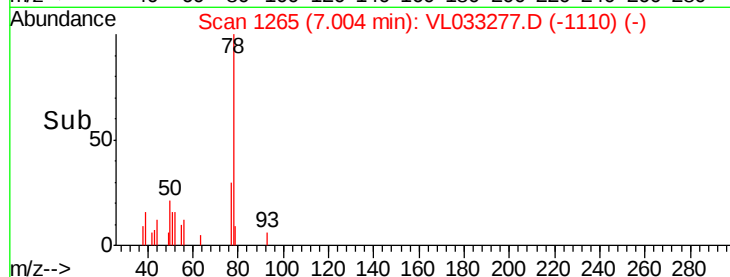
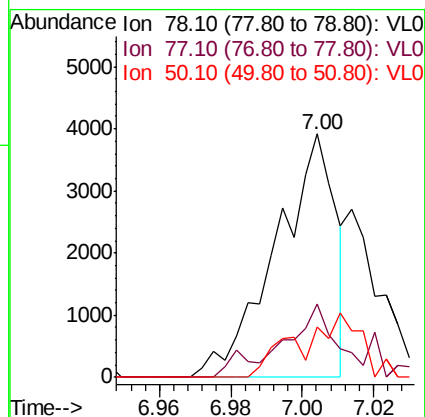
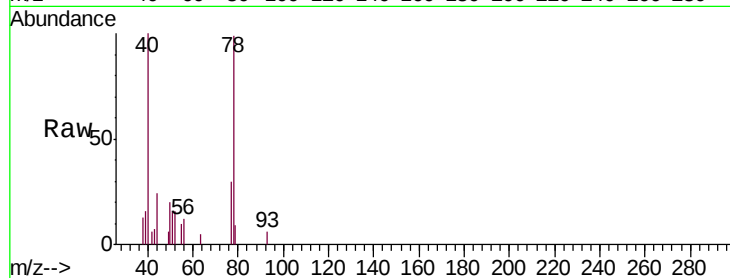
Tgt Ion: 78 Resp: 4552

Ion Ratio Lower Upper

78 100

77 30.2 17.7 26.5#

50 20.6 15.7 23.5



#37

1,2-Dichloroethane

Concen: 0.041 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VL033277.D

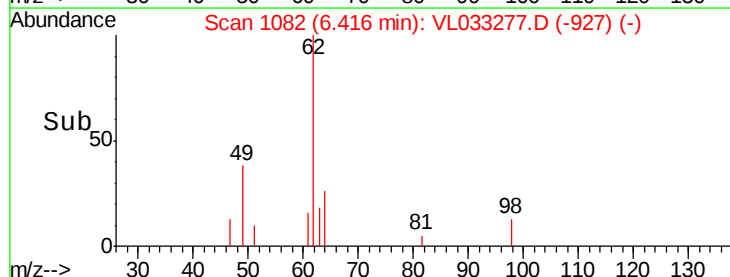
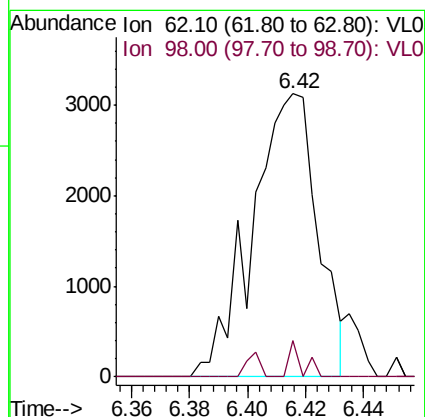
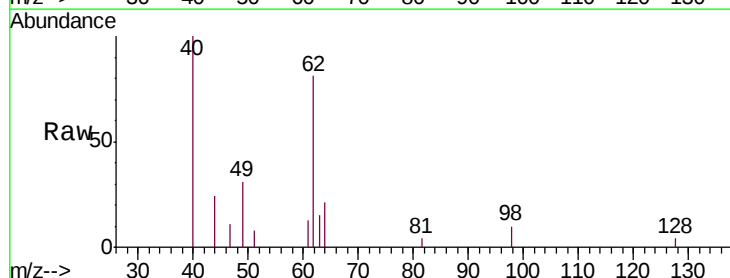
Acq: 12 Mar 2019 5:31

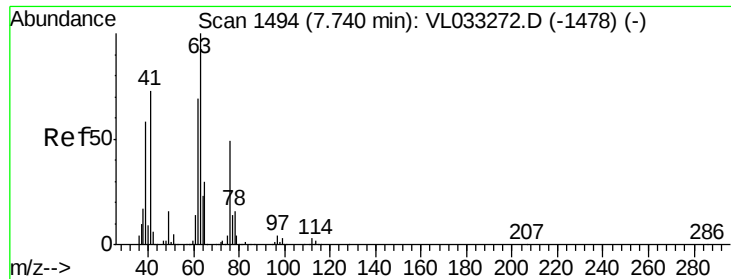
Tgt Ion: 62 Resp: 4884

Ion Ratio Lower Upper

62 100

98 4.2 4.5 6.7#





#39

1,2-Dichloropropane

Concen: 8.097 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

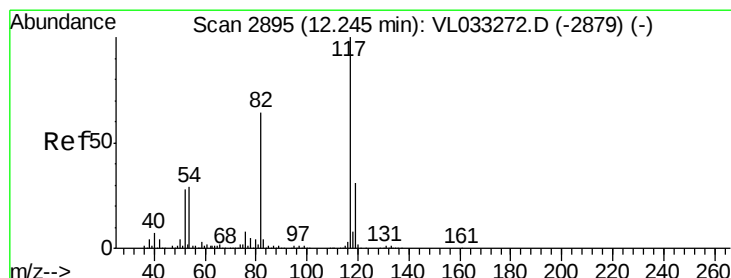
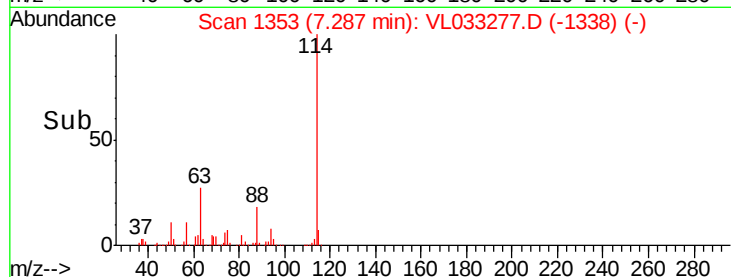
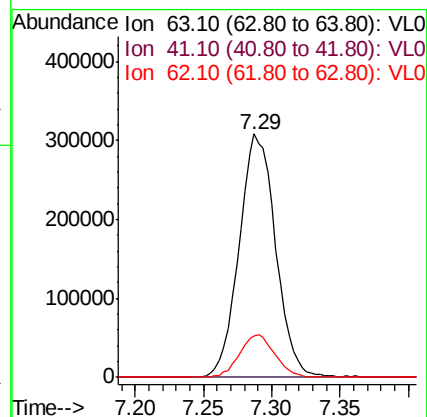
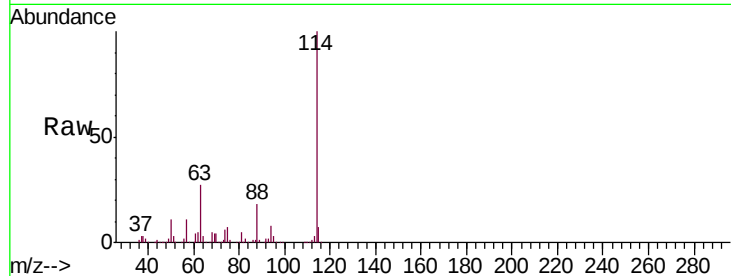
Tgt Ion: 63 Resp: 571471

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 16.9 55.3 82.9#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

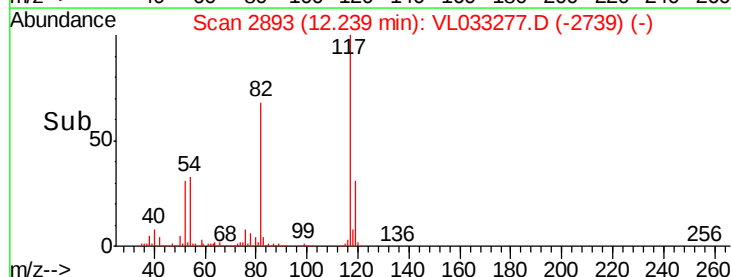
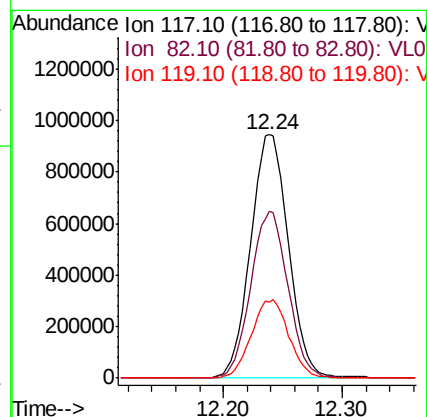
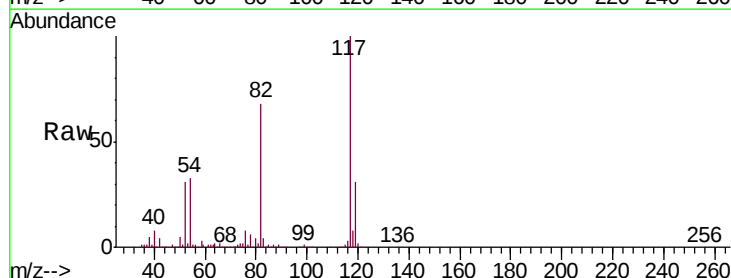
Tgt Ion: 117 Resp: 2074732

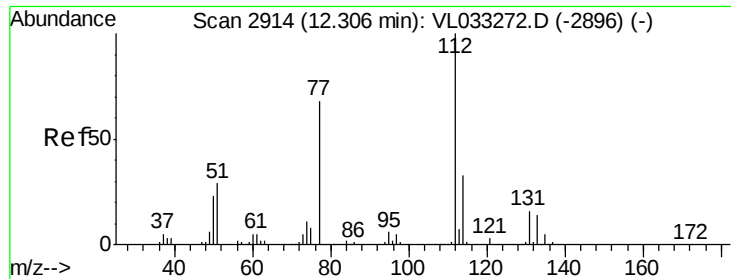
Ion Ratio Lower Upper

117 100

82 67.9 51.1 76.7

119 32.1 43.6 65.4#





#57

Chlorobenzene

Concen: 0.027 ppbv

RT: 12.30 min Scan# 2911

Delta R.T. -0.01 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

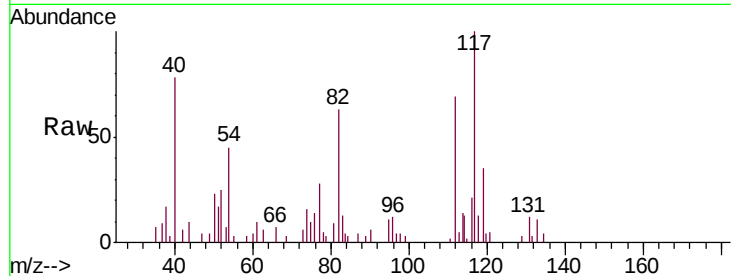
Tgt Ion: 112 Resp: 4083

Ion Ratio Lower Upper

112 100

77 0.0 55.8 83.8#

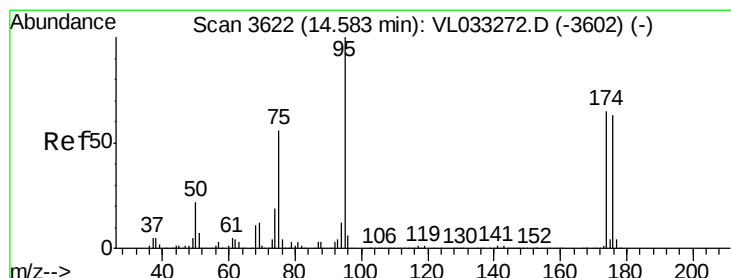
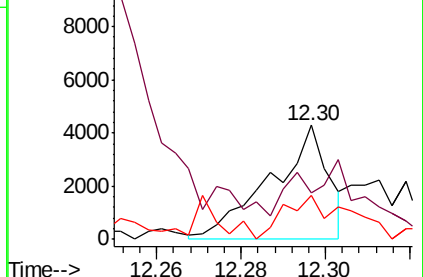
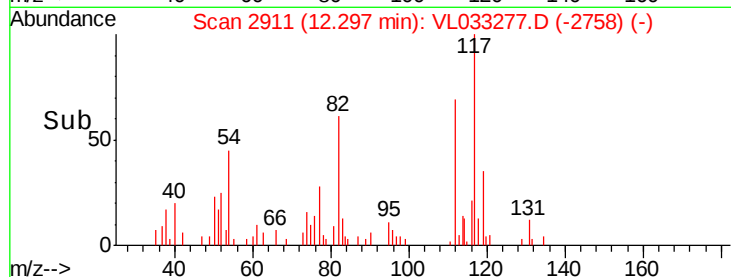
114 36.3 29.5 36.1#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.861 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033277.D

Acq: 12 Mar 2019 5:31

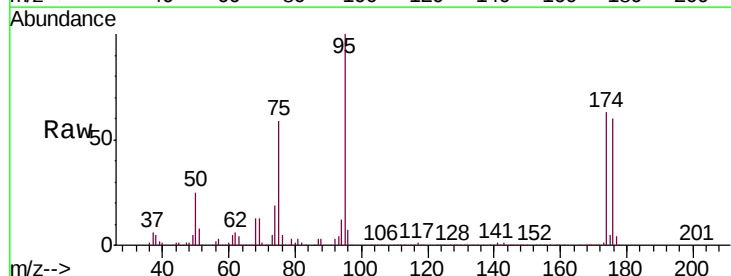
Tgt Ion: 95 Resp: 1637488

Ion Ratio Lower Upper

95 100

174 64.6 51.7 77.5

175 4.6 3.7 5.5



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

