

Data File : VL034274.D
Acq On : 9 Oct 2019 11:18
Operator : SY/AP
Sample : K5243-01DL2 100X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

Quant Time: Oct 10 01:22:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1022950	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.20	114	1890008	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.15	117	1940786	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1696730	10.06	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

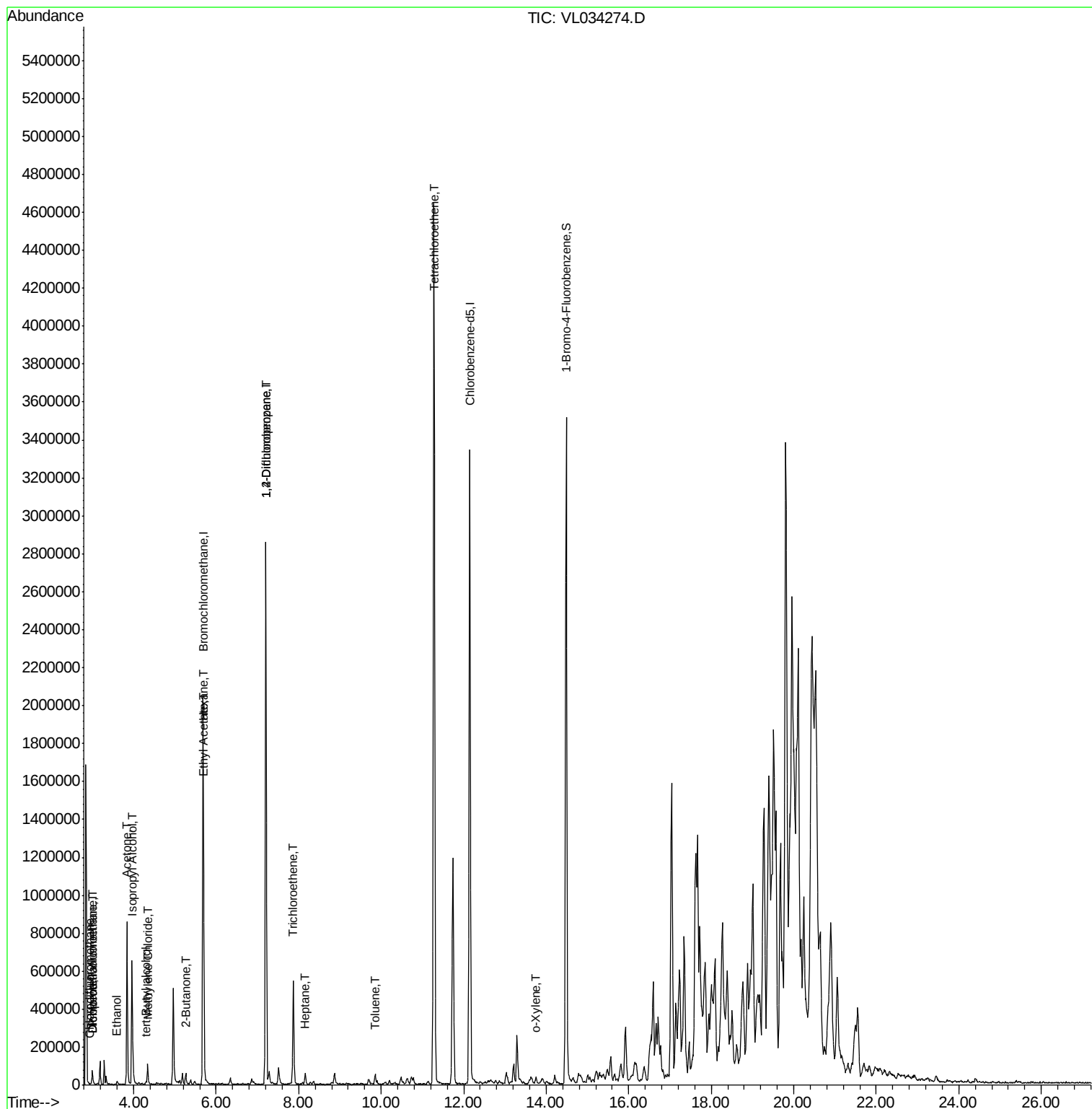
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	9605	0.064	ppbv	91
3) Chlorodifluoromethane	2.94	51	3994	0.033	ppbv #	66
8) Dichlorotetrafluoroethane	3.02	85	9605	0.072	ppbv #	22
9) Propene	2.99	41	7340	0.124	ppbv #	70
10) Heptane	8.15	43	11903	0.077	ppbv #	21
13) Ethanol	3.59	45	9270	0.647	ppbv #	57
15) Acetone	3.84	43	847233	6.180	ppbv	96
17) tert-Butyl alcohol	4.29	59	3206	0.037	ppbv #	1
19) Isopropyl Alcohol	3.96	45	687919	8.159	ppbv #	99
20) Methylene Chloride	4.34	84	29615	0.749	ppbv	98
25) Ethyl Acetate	5.70	43	39878	0.154	ppbv #	80
26) Hexane	5.70	57	88358	0.819	ppbv #	41
34) 2-Butanone	5.26	43	66854	0.346	ppbv	100
38) Trichloroethene	7.87	130	146924	1.970	ppbv	94
39) 1,2-Dichloropropane	7.21	63	581873	6.204	ppbv #	19
52) Tetrachloroethene	11.28	164	1103877	16.006	ppbv	95
53) Toluene	9.85	91	38057	0.167	ppbv	97
60) o-Xylene	13.76	91	19770	0.076	ppbv	97

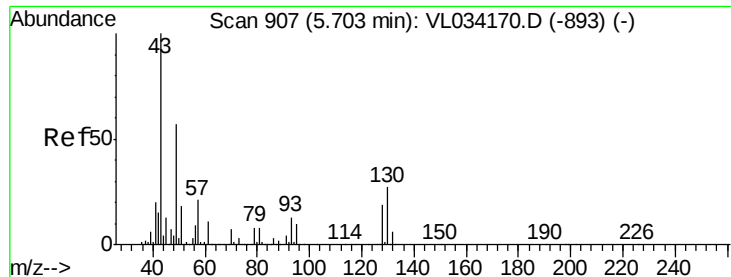
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.02 min

Lab File: VL034274.D

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Instrument :

MSVOA_L

ClientSampleId :

SV1DL2

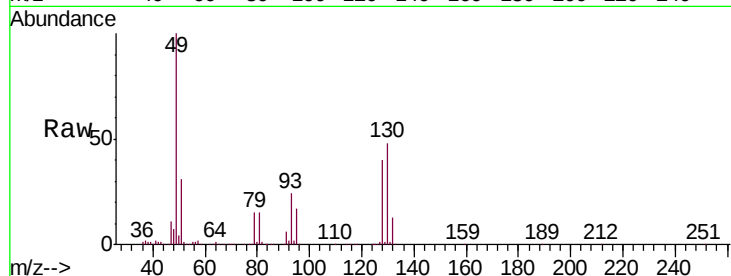
Tgt Ion: 49 Resp: 1022950

Ion Ratio Lower Upper

49 100

128 38.0 17.6 52.9

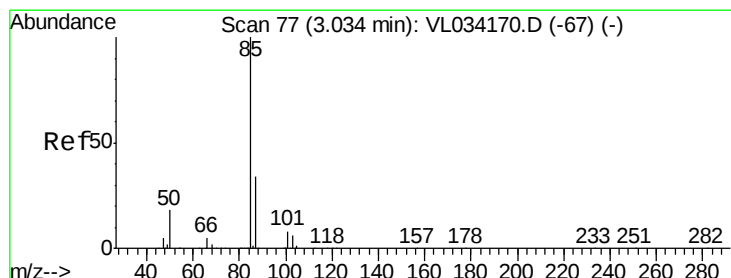
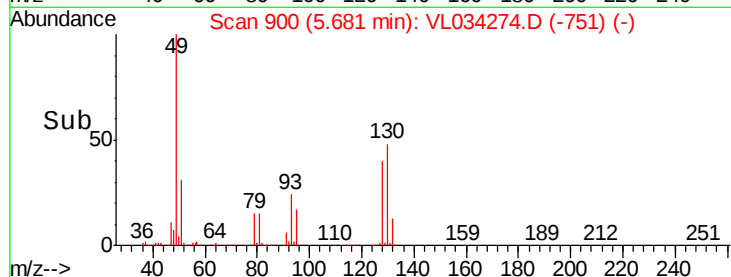
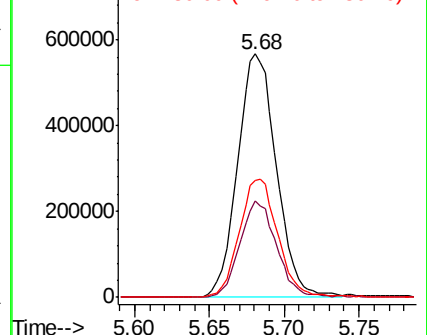
130 48.4 22.3 66.9



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: 0.064 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.01 min

Lab File: VL034274.D

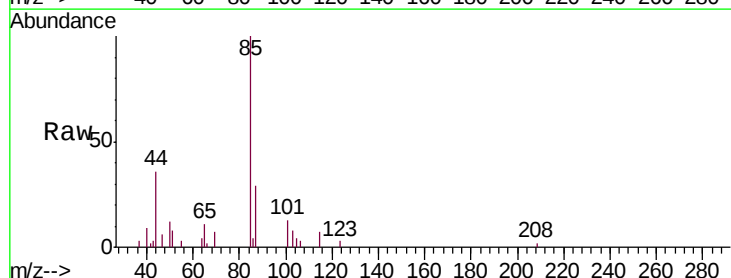
Acq: 9 Oct 2019 11:18

Tgt Ion: 85 Resp: 9605

Ion Ratio Lower Upper

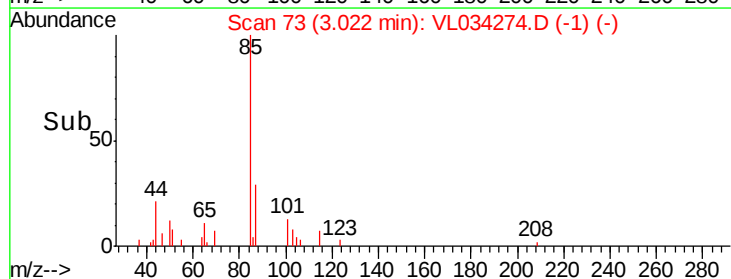
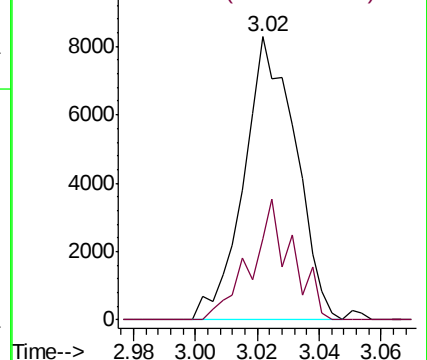
85 100

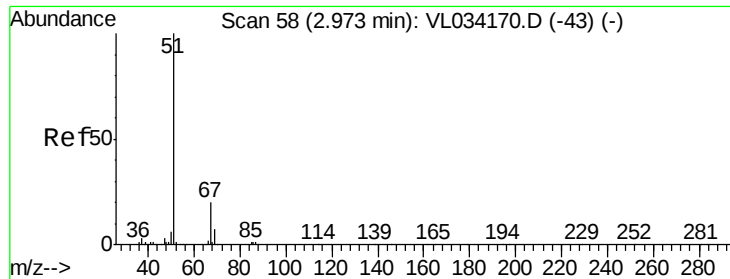
87 28.7 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.033 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.04 min

Lab File: VL034274.D

Acq: 9 Oct 2019 11:18

Instrument :

MSVOA_L

ClientSampleId :

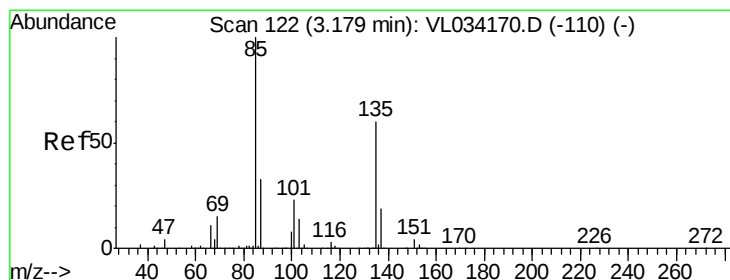
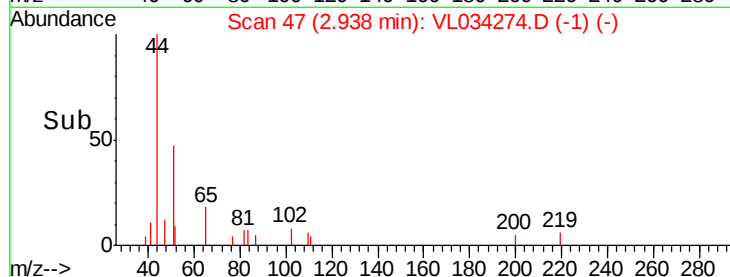
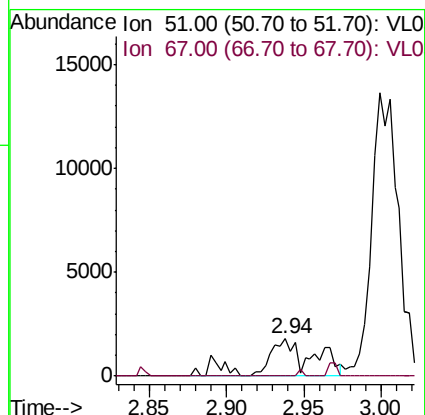
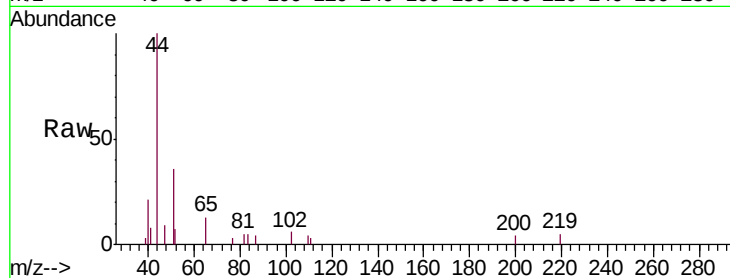
SV1DL2

Tgt Ion: 51 Resp: 3994

Ion Ratio Lower Upper

51 100

67 3.1 14.8 22.2#



#8

Dichlorotetrafluoroethane

Concen: 0.072 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.16 min

Lab File: VL034274.D

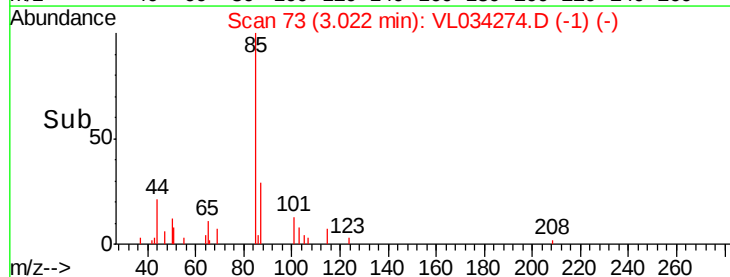
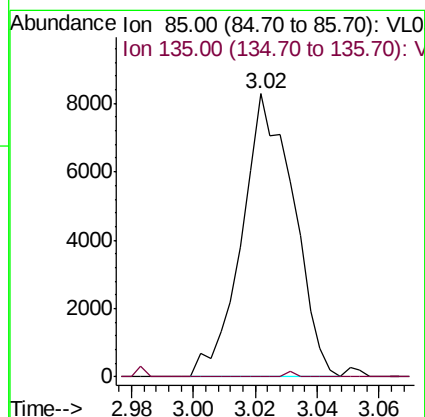
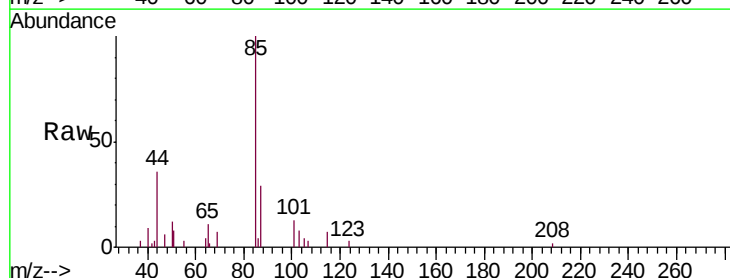
Acq: 9 Oct 2019 11:18

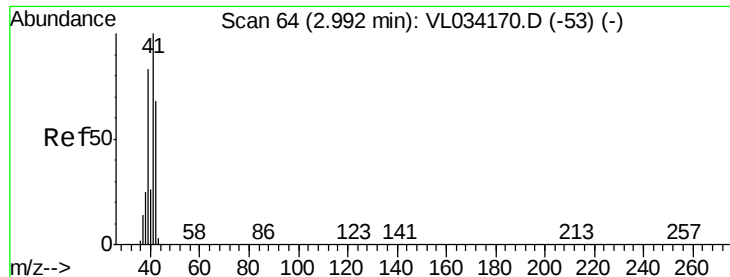
Tgt Ion: 85 Resp: 9605

Ion Ratio Lower Upper

85 100

135 0.3 47.3 70.9#





#9

Propene

Concen: 0.124 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL034274.D

Acq: 9 Oct 2019 11:18

Instrument :

MSVOA_L

ClientSampleId :

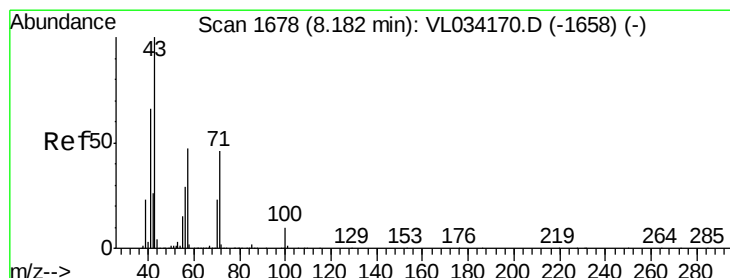
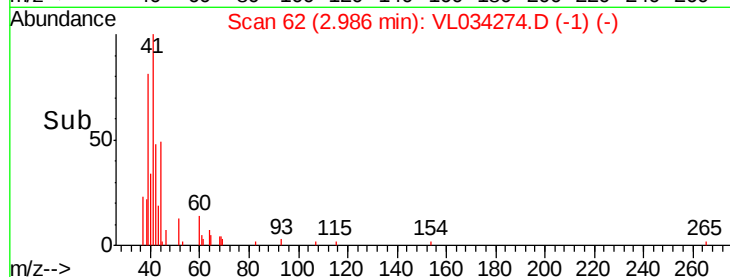
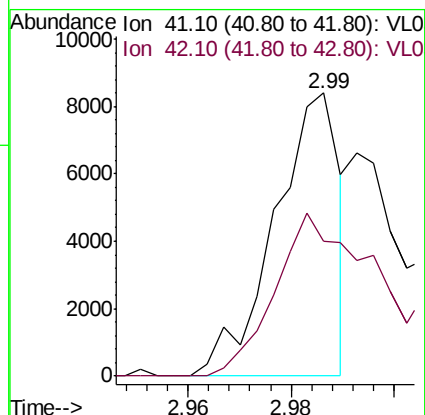
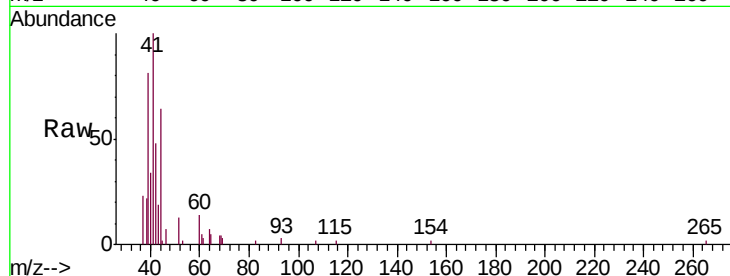
SV1DL2

Tgt Ion: 41 Resp: 7340

Ion Ratio Lower Upper

41 100

42 94.4 55.8 83.6#



#10

Heptane

Concen: 0.077 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. -0.03 min

Lab File: VL034274.D

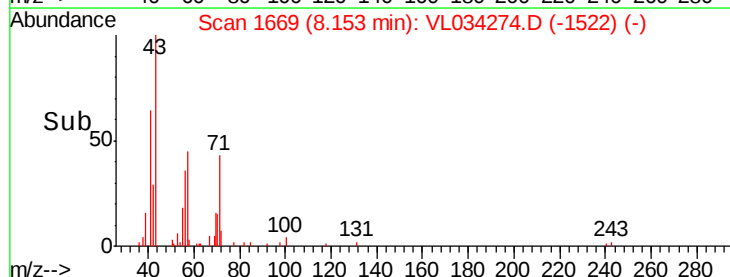
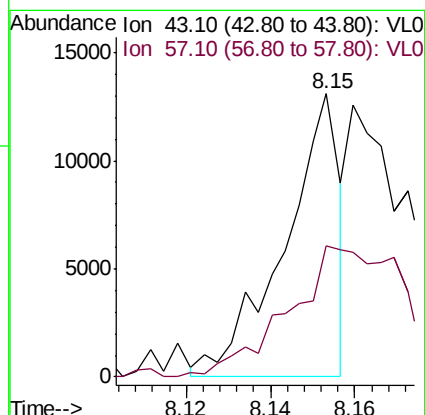
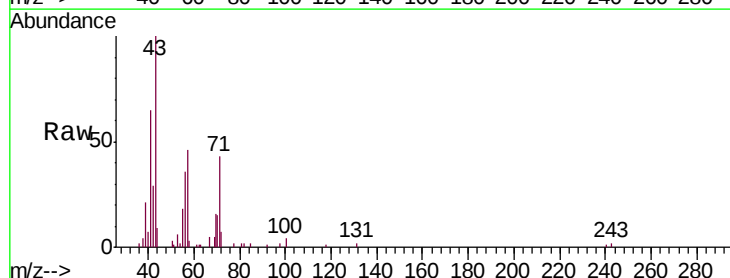
Acq: 9 Oct 2019 11:18

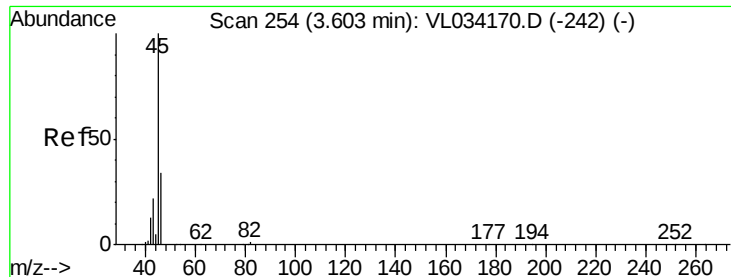
Tgt Ion: 43 Resp: 11903

Ion Ratio Lower Upper

43 100

57 99.7 37.5 56.3#

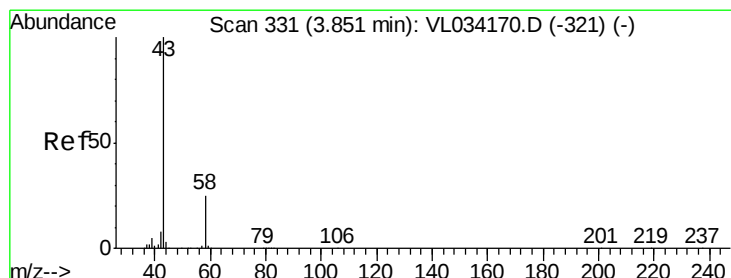
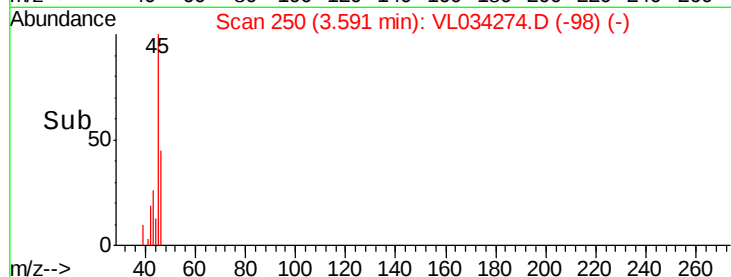
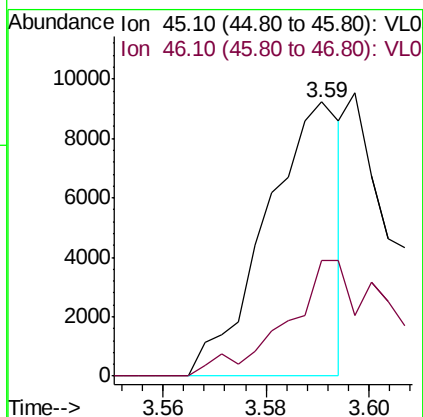
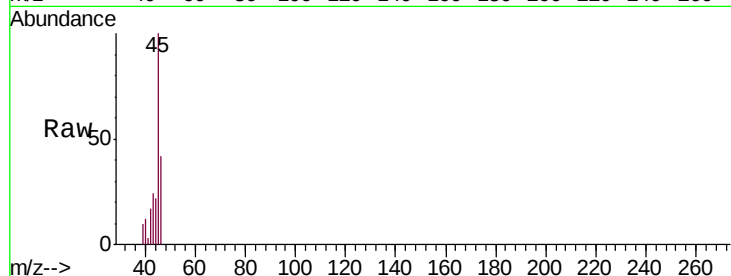




#13
Ethanol
Concen: 0.647 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.01 min
Lab File: VL034274.D
Acq: 9 Oct 2019 11:18

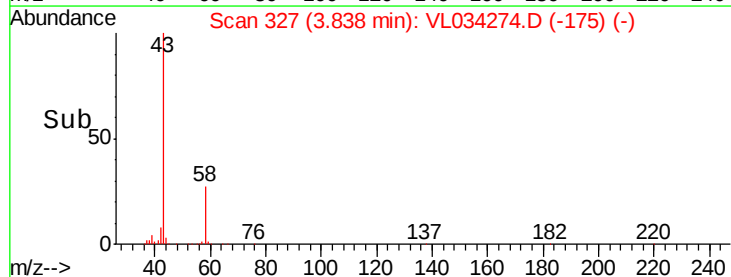
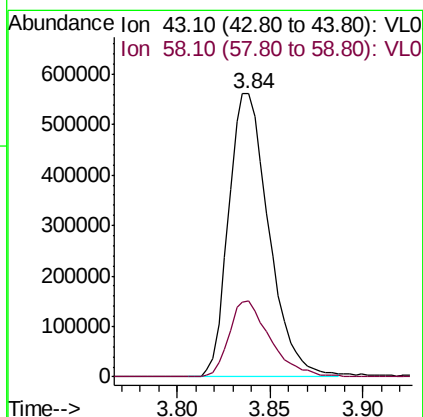
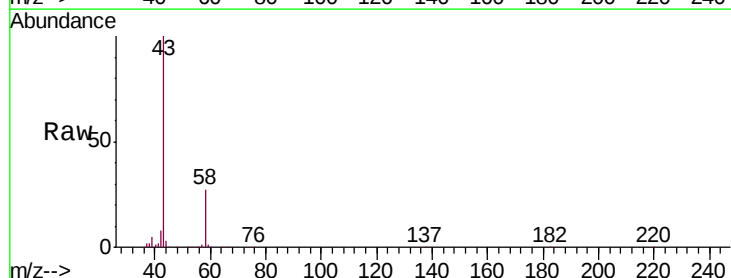
Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

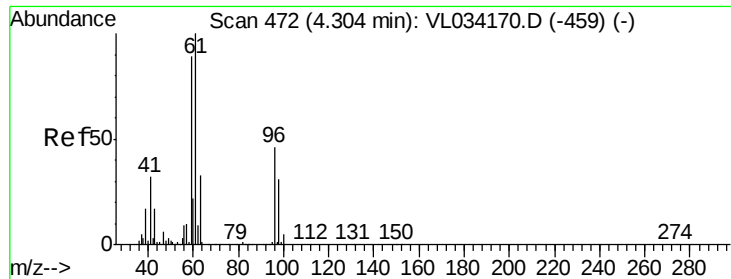
Tgt Ion: 45 Resp: 9270
Ion Ratio Lower Upper
45 100
46 64.8 15.5 61.9#



#15
Acetone
Concen: 6.180 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL034274.D
Acq: 9 Oct 2019 11:18

Tgt Ion: 43 Resp: 847233
Ion Ratio Lower Upper
43 100
58 27.6 20.5 30.7



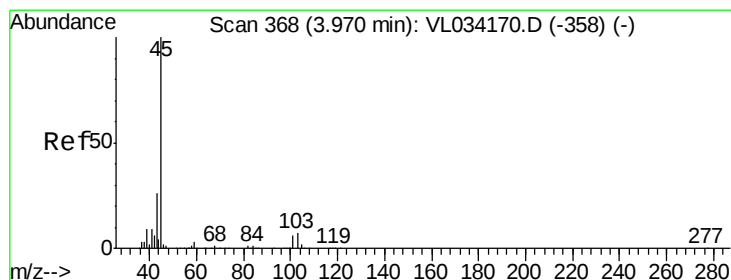
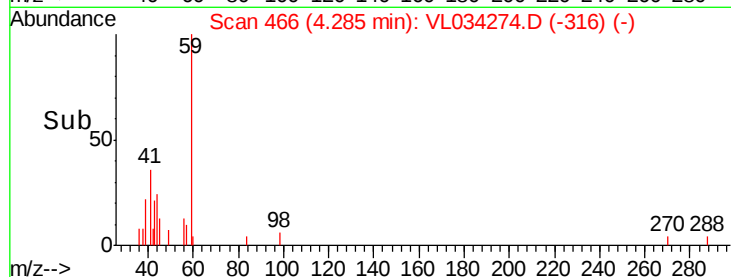
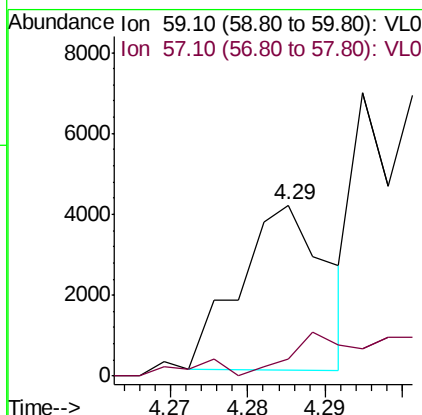
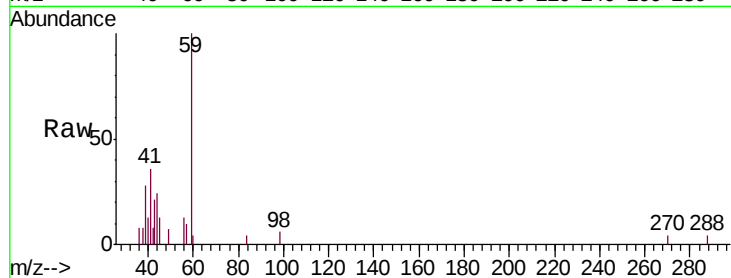


#17

tert-Butyl alcohol
Concen: 0.037 ppbv
RT: 4.29 min Scan# 466
Delta R.T. -0.02 min
Lab File: VL034274.D
Acq: 9 Oct 2019 11:18

Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

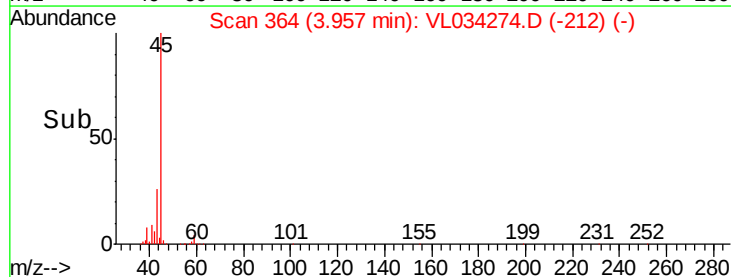
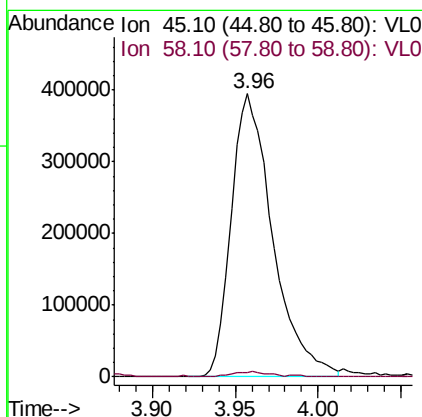
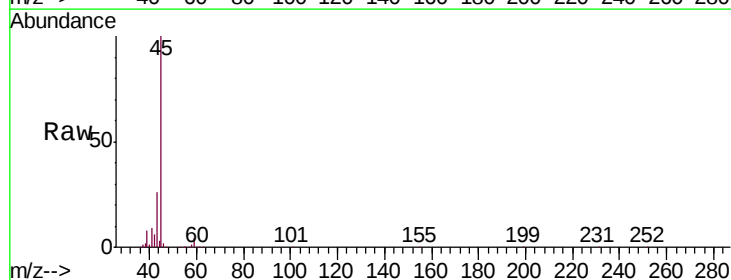
Tgt Ion: 59 Resp: 3206
Ion Ratio Lower Upper
59 100
57 54.1 8.7 13.1#

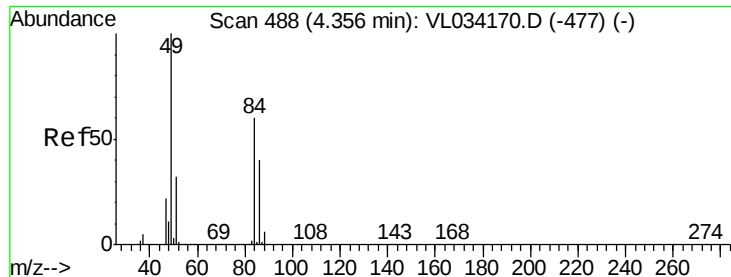


#19

Isopropyl Alcohol
Concen: 8.159 ppbv
RT: 3.96 min Scan# 364
Delta R.T. -0.01 min
Lab File: VL034274.D
Acq: 9 Oct 2019 11:18

Tgt Ion: 45 Resp: 687919
Ion Ratio Lower Upper
45 100
58 2.1 1.4 2.0#

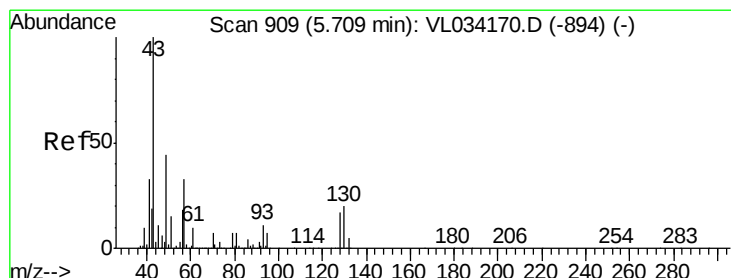
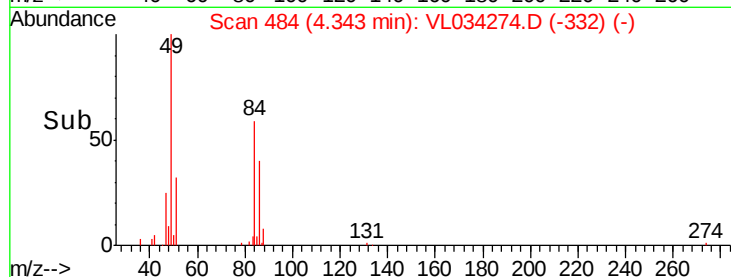
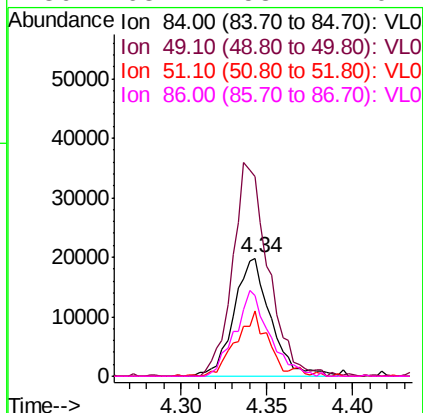
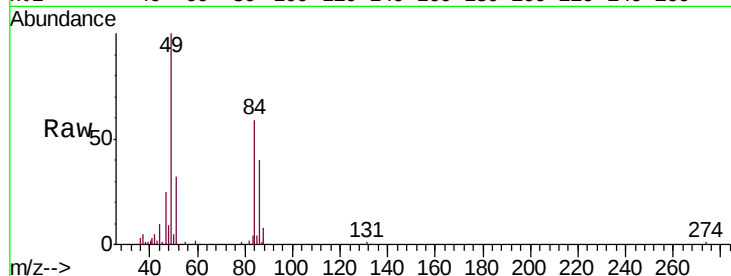




#20
Methylene Chloride
Concen: 0.749 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL034274.D
Acq: 9 Oct 2019 11:18

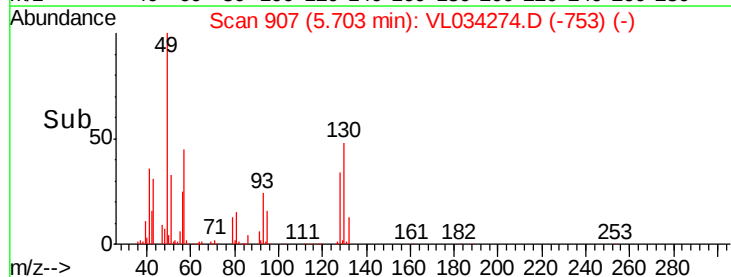
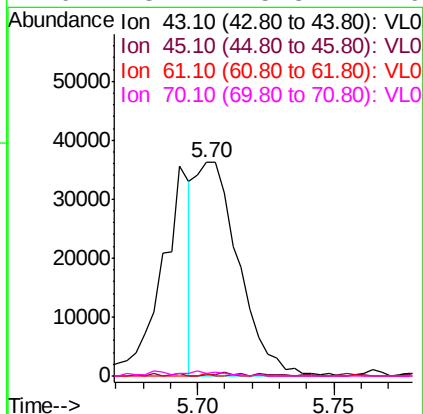
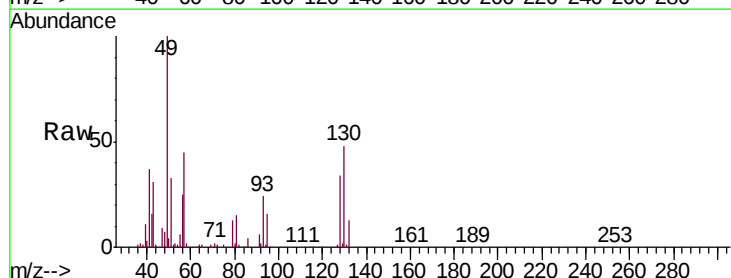
Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

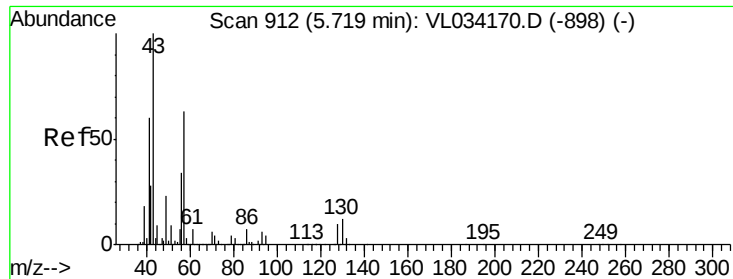
Tgt Ion:	84	Resp:	29615
Ion	Ratio	Lower	Upper
84	100		
49	169.8	133.8	200.8
51	53.8	43.6	65.4
86	68.4	53.1	79.7



#25
Ethyl Acetate
Concen: 0.154 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034274.D
Acq: 9 Oct 2019 11:18

Tgt Ion:	43	Resp:	39878
Ion	Ratio	Lower	Upper
43	100		
45	2.1	8.4	12.6#
61	0.0	7.2	10.8#
70	3.4	5.3	7.9#

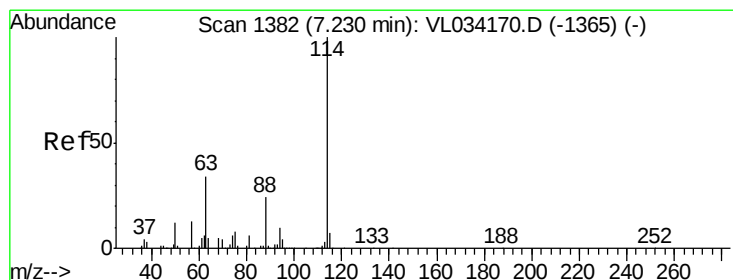
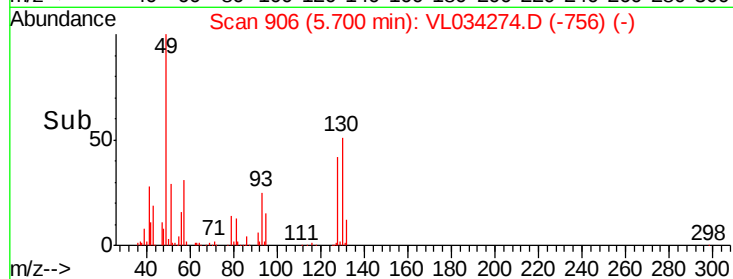
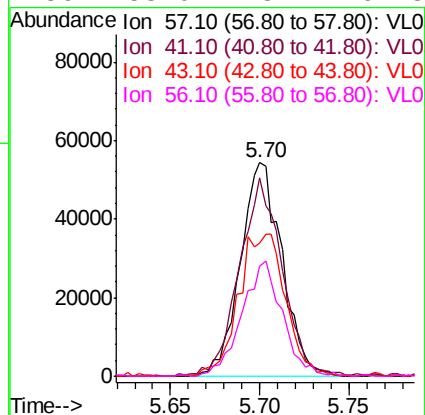
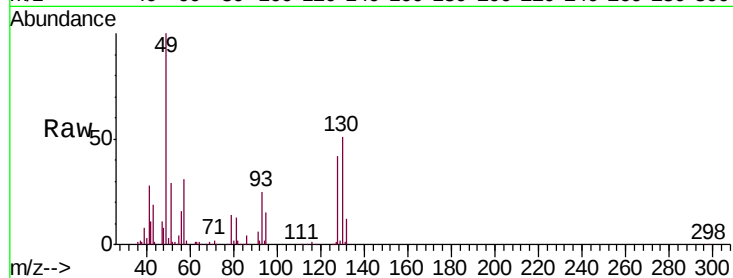




#26
Hexane
Concen: 0.819 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.02 min
Lab File: VL034274.D
Acq: 9 Oct 2019 11:18

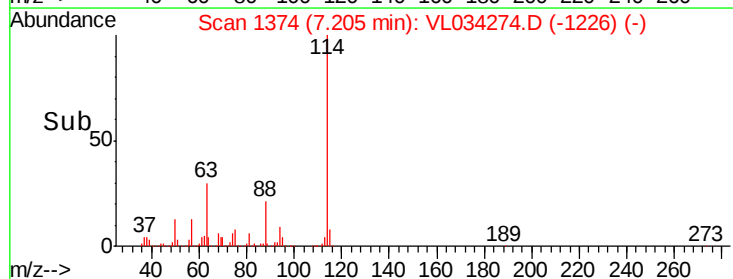
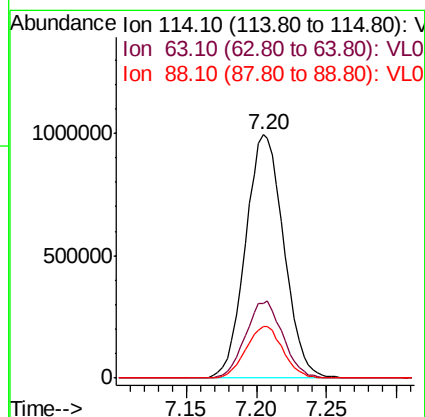
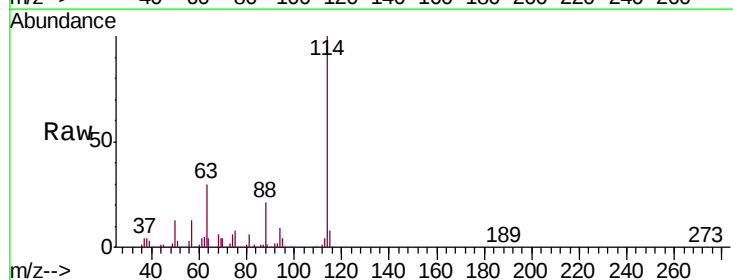
Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

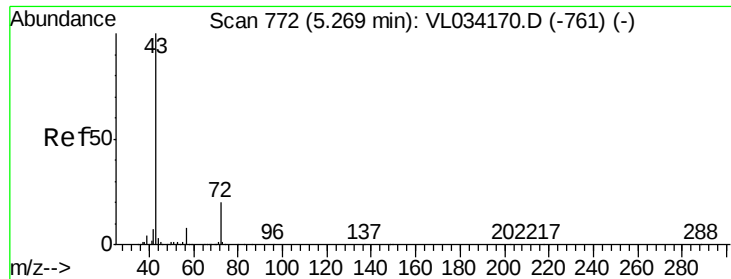
Tgt Ion: 57 Resp: 88358
Ion Ratio Lower Upper
57 100
41 96.5 78.5 117.7
43 75.8 189.5 284.3#
56 53.0 43.2 64.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1374
Delta R.T. -0.03 min
Lab File: VL034274.D
Acq: 9 Oct 2019 11:18

Tgt Ion: 114 Resp: 1890008
Ion Ratio Lower Upper
114 100
63 31.1 27.8 41.6
88 20.6 17.1 25.7

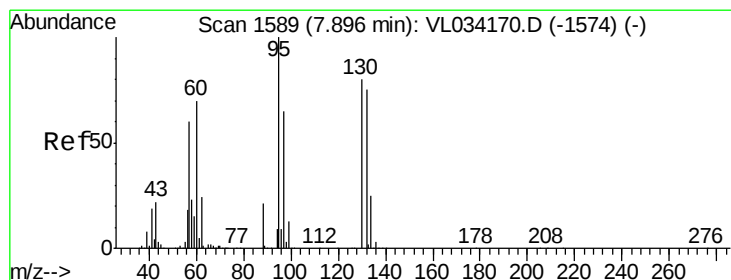
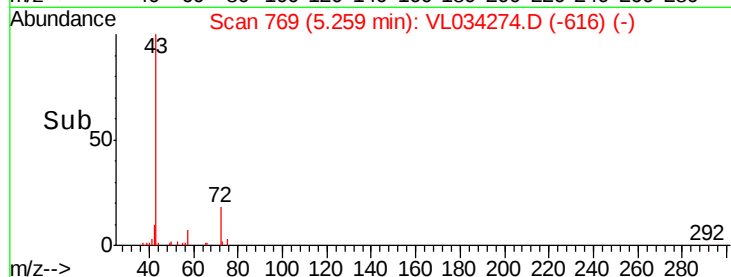
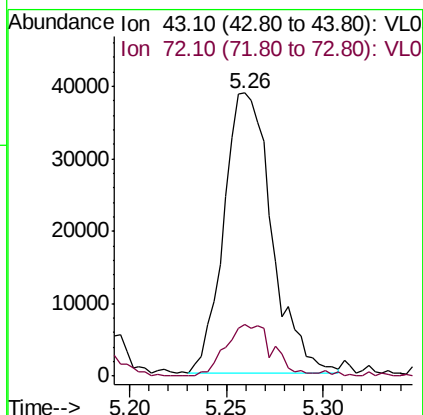
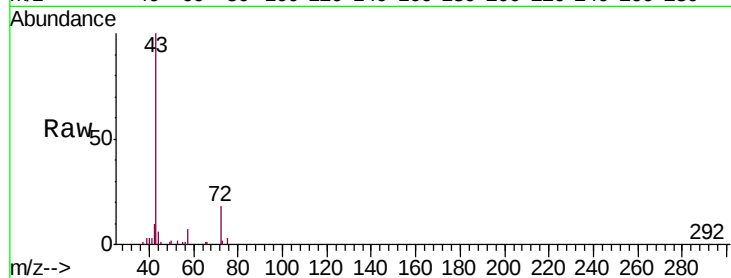




#34
 2-Butanone
 Concen: 0.346 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. -0.01 min
 Lab File: VL034274.D
 Acq: 9 Oct 2019 11:18

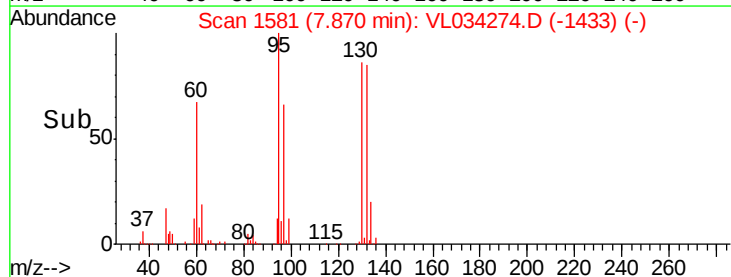
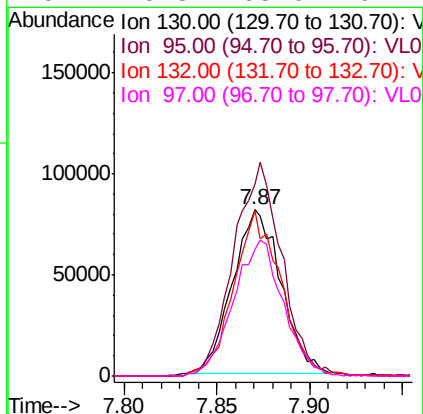
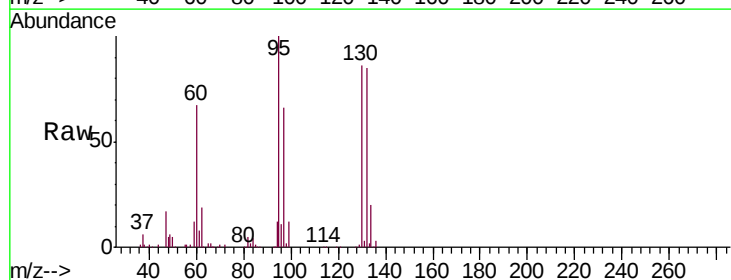
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL2

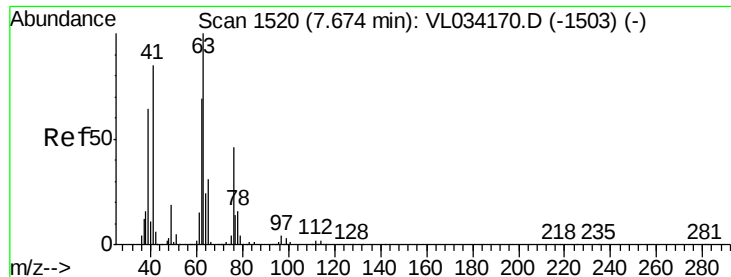
Tgt Ion: 43 Resp: 66854
 Ion Ratio Lower Upper
 43 100
 72 18.7 15.0 22.6



#38
 Trichloroethene
 Concen: 1.970 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.03 min
 Lab File: VL034274.D
 Acq: 9 Oct 2019 11:18

Tgt Ion: 130 Resp: 146924
 Ion Ratio Lower Upper
 130 100
 95 116.5 99.8 149.6
 132 99.0 75.2 112.8
 97 76.3 65.0 97.4





#39

1,2-Dichloropropane

Concen: 6.204 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. -0.47 min

Lab File: VL034274.D

Acq: 9 Oct 2019 11:18

Instrument :

MSVOA_L

ClientSampleId :

SV1DL2

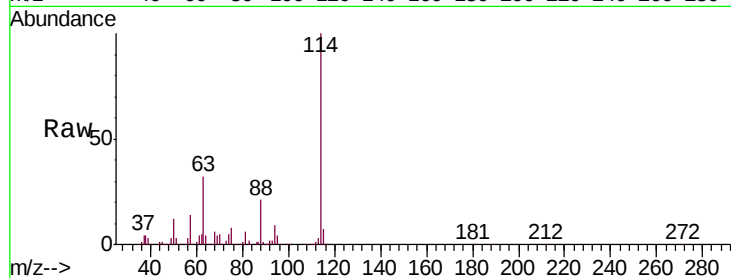
Tgt Ion: 63 Resp: 581873

Ion Ratio Lower Upper

63 100

41 0.0 68.4 102.6#

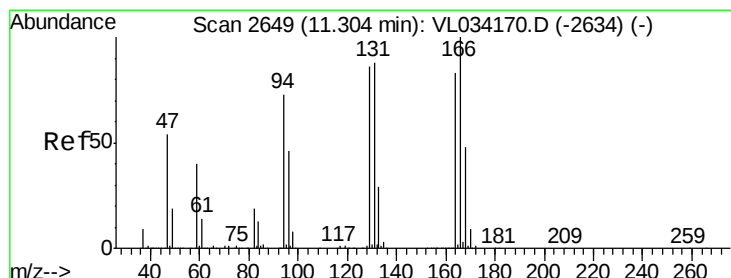
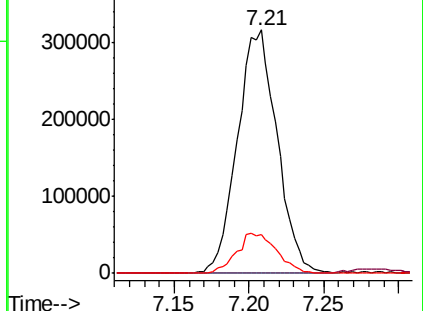
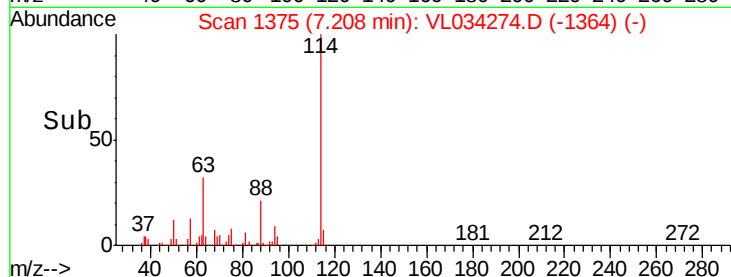
62 15.9 55.4 83.2#



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



#52

Tetrachloroethene

Concen: 16.006 ppbv

RT: 11.28 min Scan# 2642

Delta R.T. -0.02 min

Lab File: VL034274.D

Acq: 9 Oct 2019 11:18

Tgt Ion: 164 Resp: 1103877

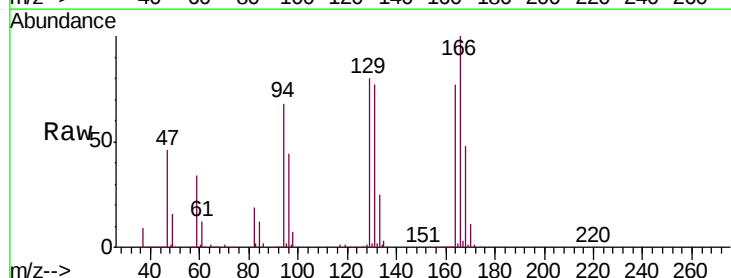
Ion Ratio Lower Upper

164 100

166 130.1 96.7 145.1

129 104.4 82.8 124.2

131 100.1 85.0 127.6

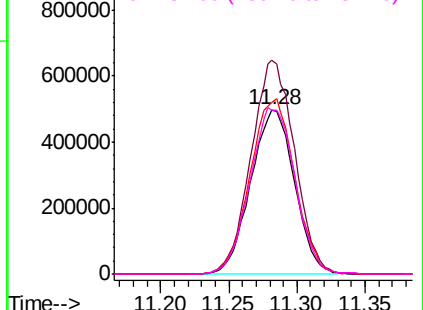
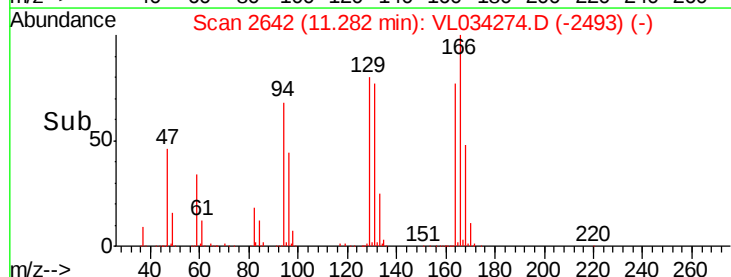


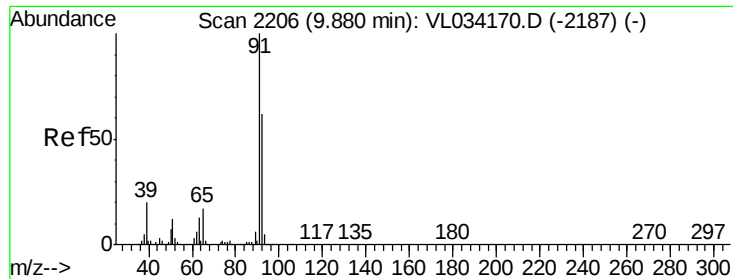
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.167 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. -0.03 min

Lab File: VL034274.D

Acq: 9 Oct 2019 11:18

Instrument :

MSVOA_L

ClientSampleId :

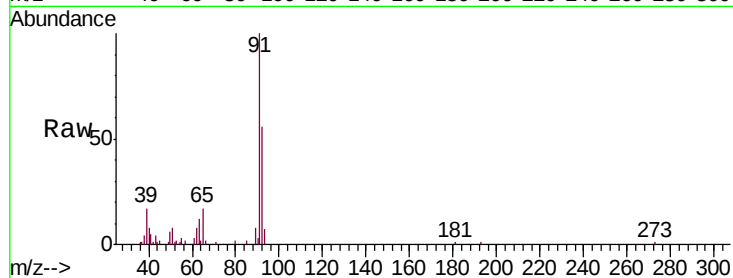
SV1DL2

Tgt Ion: 91 Resp: 38057

Ion Ratio Lower Upper

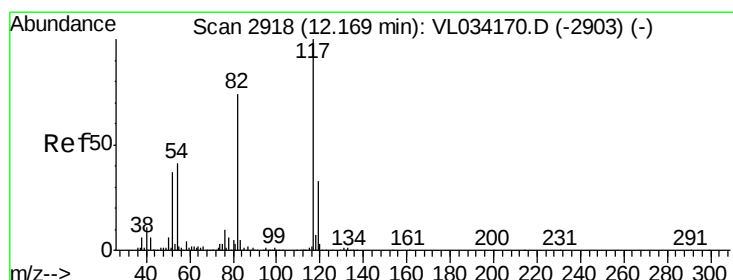
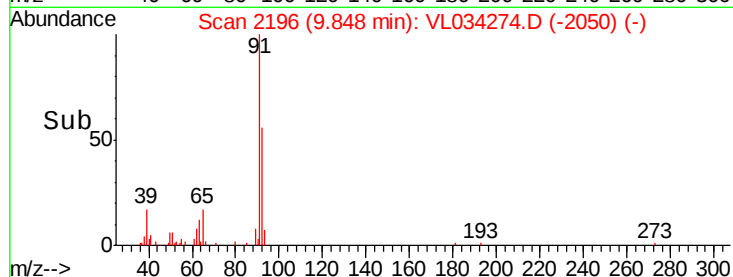
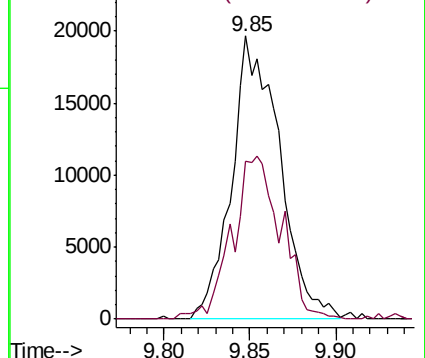
91 100

92 58.9 49.0 73.6



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: 12.15 min Scan# 2911

Delta R.T. -0.02 min

Lab File: VL034274.D

Acq: 9 Oct 2019 11:18

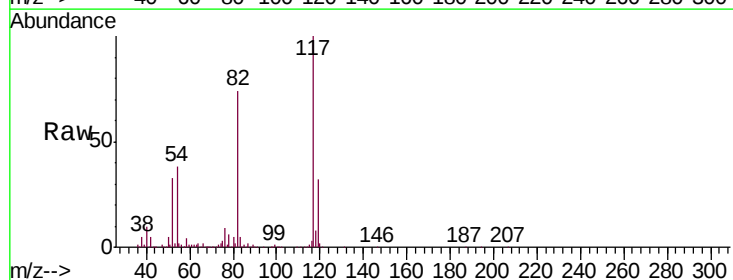
Tgt Ion: 117 Resp: 1940786

Ion Ratio Lower Upper

117 100

82 75.5 58.2 87.4

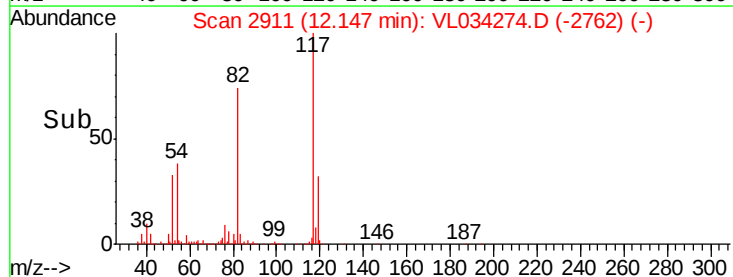
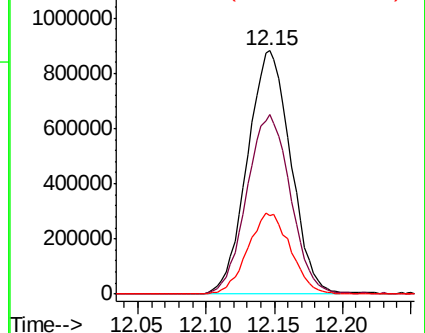
119 33.2 23.7 35.5

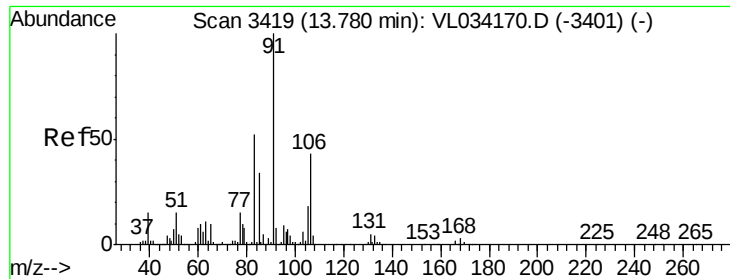


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

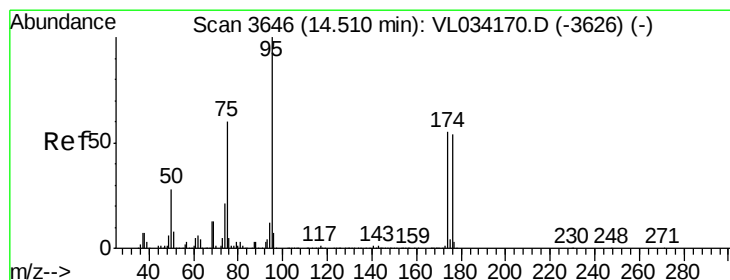
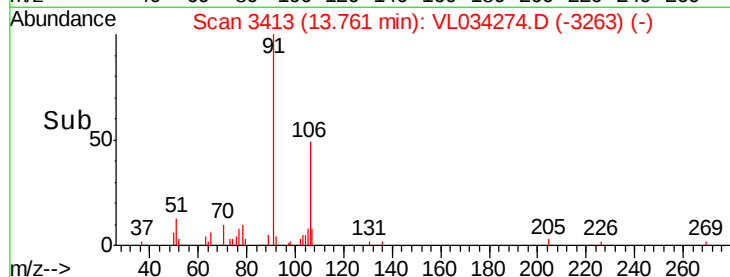
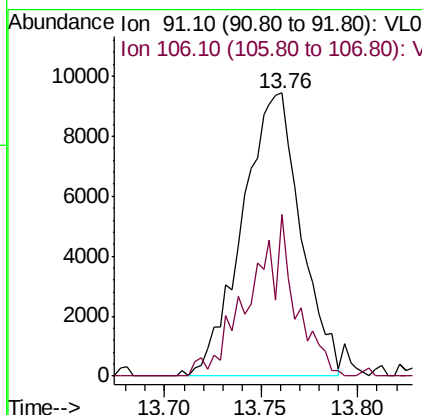
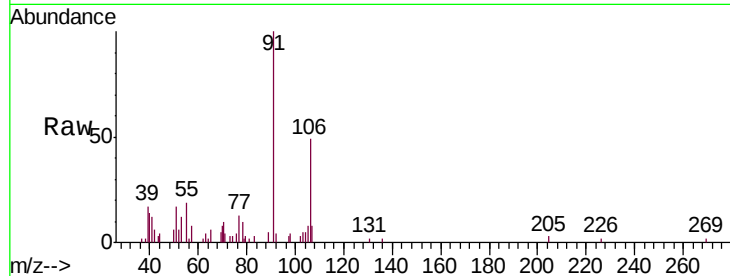




#60
o-Xylene
Concen: 0.076 ppbv
RT: 13.76 min Scan# 3413
Delta R.T. -0.02 min
Lab File: VL034274.D
Acq: 9 Oct 2019 11:18

Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

Tgt Ion: 91 Resp: 19770
Ion Ratio Lower Upper
91 100
106 44.3 21.2 63.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.061 ppbv
RT: 14.48 min Scan# 3637
Delta R.T. -0.03 min
Lab File: VL034274.D
Acq: 9 Oct 2019 11:18

Tgt Ion: 95 Resp: 1696730
Ion Ratio Lower Upper
95 100
174 59.8 45.1 67.7
175 4.5 3.3 4.9

