

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010820\
 Data File : VW014563.D
 Acq On : 08 Jan 2020 16:49
 Operator : SY/VA
 Sample : L1056-04
 Misc : 6.82G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jan 09 00:55:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 03 16:07:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	568168	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	877392	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	697031	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	279283	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	250742	50.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.96%	
35) Dibromofluoromethane	7.88	113	236017	47.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.14%	
50) Toluene-d8	10.32	98	874180	41.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.54%	
62) 4-Bromofluorobenzene	12.62	95	272599	38.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.80%	

Target Compounds

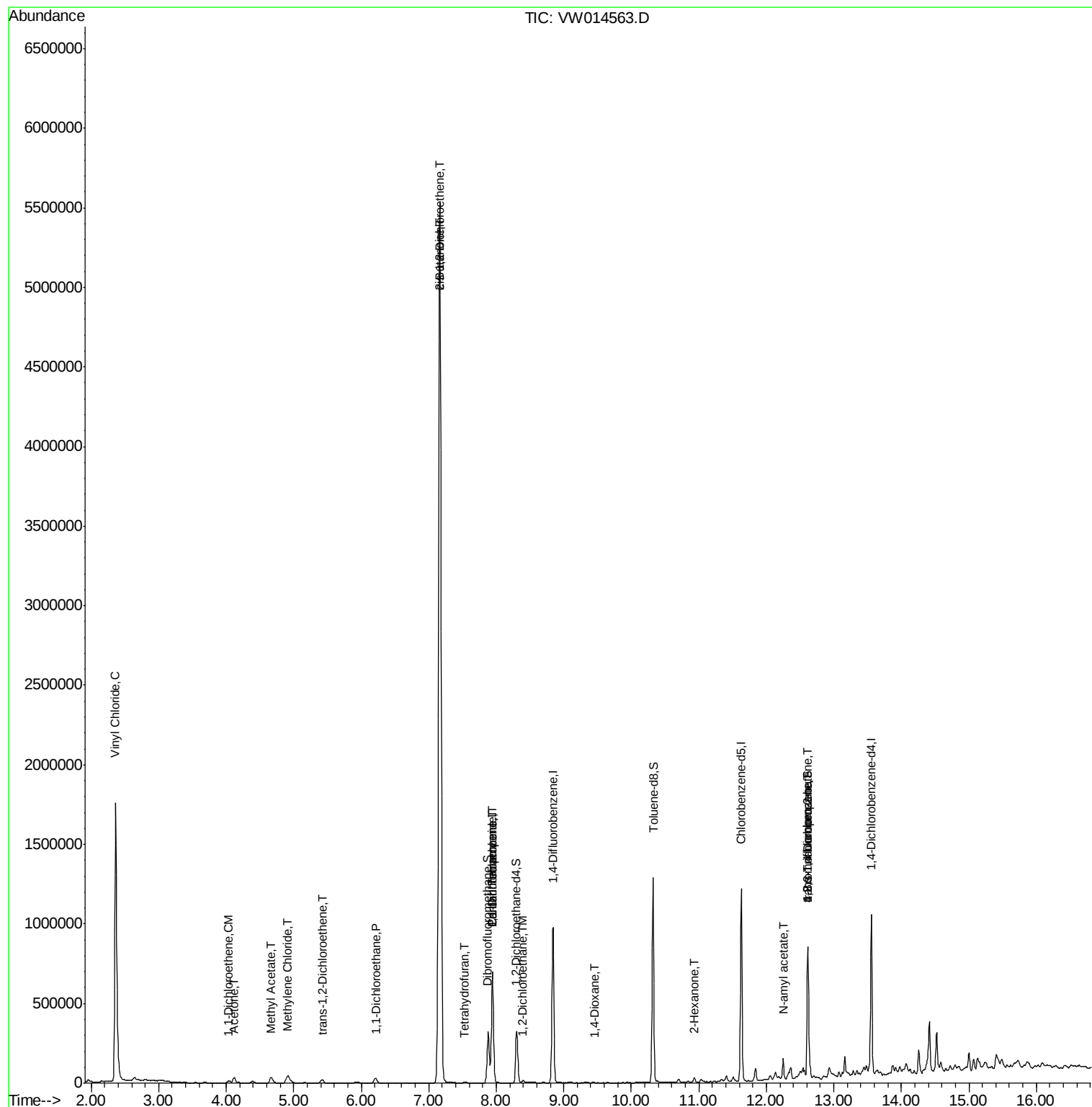
						Qvalue
4) Vinyl Chloride	2.36	62	2307143	399.473	ug/l	98
11) Tert butyl alcohol	5.17	59	3881	Below Cal	#	87
12) 1,1-Dichloroethene	4.04	96	9863	1.744	ug/l	92
16) Acetone	4.12	43	59932	42.727	ug/l	97
18) Methyl Acetate	4.67	43	69221	20.433	ug/l	99
20) Methylene Chloride	4.92	84	41883	3.149	ug/l	96
21) trans-1,2-Dichloroethene	5.42	96	12218	2.035	ug/l	90
24) 1,1-Dichloroethane	6.21	63	43140	4.229	ug/l	97
25) 2-Butanone	7.16	43	3587	1.993	ug/l #	1
27) cis-1,2-Dichloroethene	7.16	96	3509455	556.313	ug/l	93
29) Tetrahydrofuran	7.54	42	1928	1.729	ug/l #	89
36) 1,1-Dichloropropene	7.94	75	38811	4.588	ug/l #	49
38) Carbon Tetrachloride	7.95	117	49555	6.753	ug/l #	17
42) 1,2-Dichloroethane	8.39	62	11245	1.811	ug/l	92
49) 1,4-Dioxane	9.46	88	683	12.596	ug/l #	61
59) 2-Hexanone	10.93	43	10855	4.355	ug/l #	27
74) N-amyl acetate	12.25	43	24601	5.354	ug/l #	62
76) 1,2,3-Trichloropropane	12.62	75	128131	48.524	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	128131	108.113	ug/l #	14

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

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QLast Update : Fri Jan 03 16:07:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

Instrument :

MSVOA_W

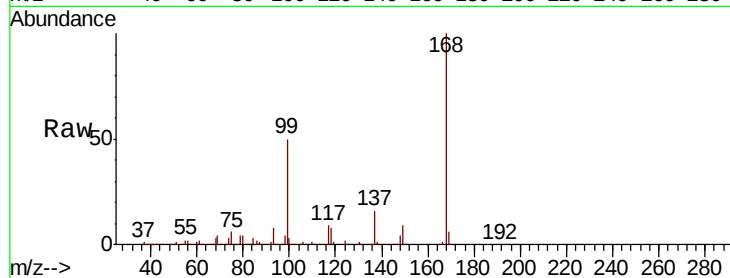
ClientSampleId :

Tot Ion:168 Resp: 568168

Ion Ratio Lower Upper

168 100

99 49.8 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

150000

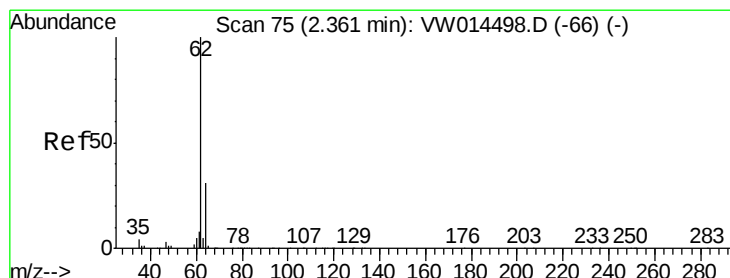
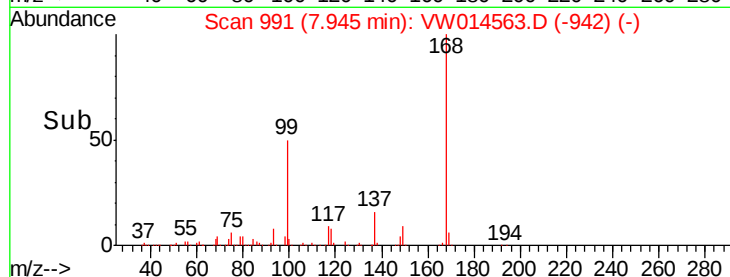
100000

50000

0

7.80 7.90 8.00 8.10

Time-->



#4

Vinyl Chloride

Concen: 399.473 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW014563.D

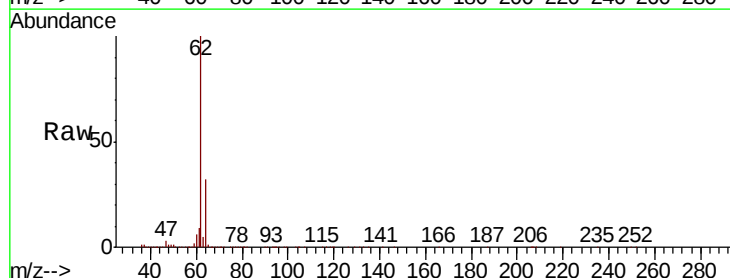
Acq: 08 Jan 2020 16:49

Tgt Ion: 62 Resp: 2307143

Ion Ratio Lower Upper

62 100

64 32.3 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

1200000

1000000

800000

600000

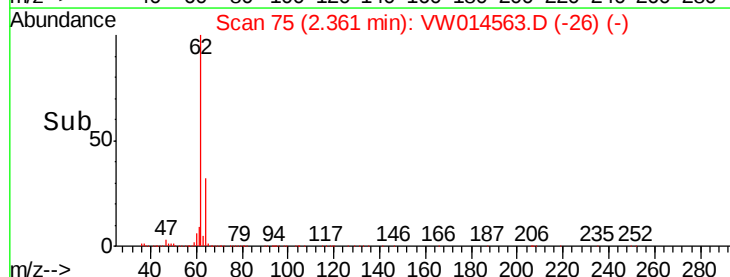
400000

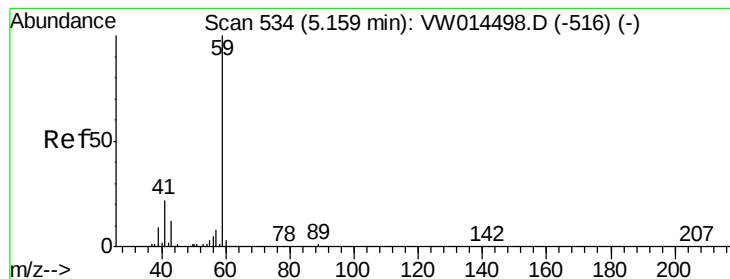
200000

0

2.20 2.30 2.40 2.50 2.60

Time-->



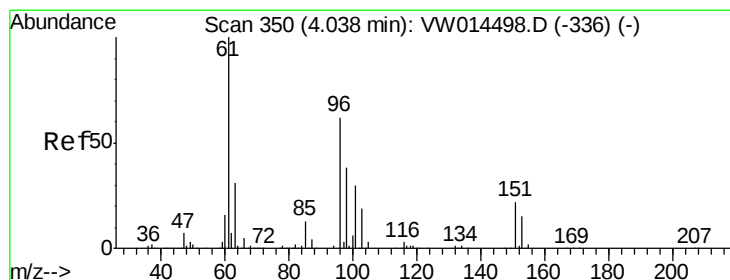
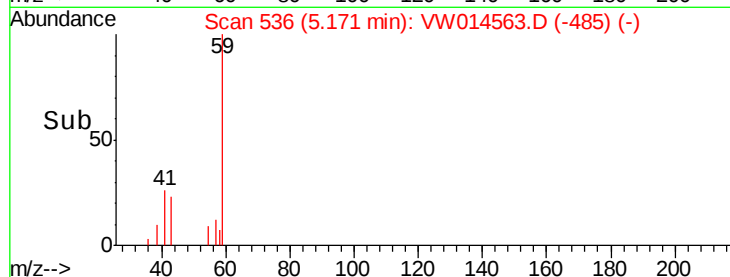
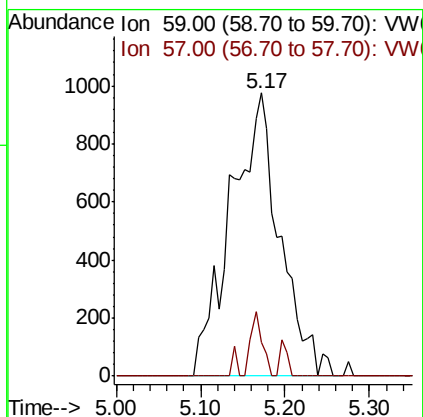
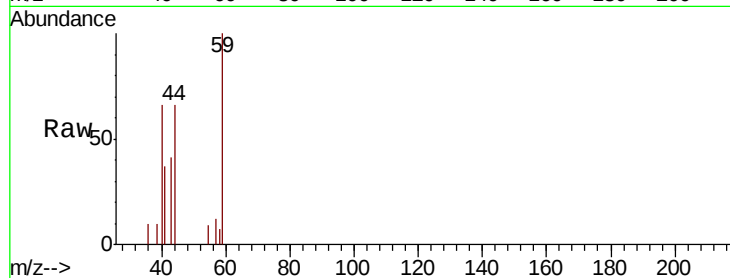


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.17 min Scan# 536
Delta R.T. 0.01 min
Lab File: VW014563.D
Acq: 08 Jan 2020 16:49

Instrument :
MSVOA_W
ClientSampled :

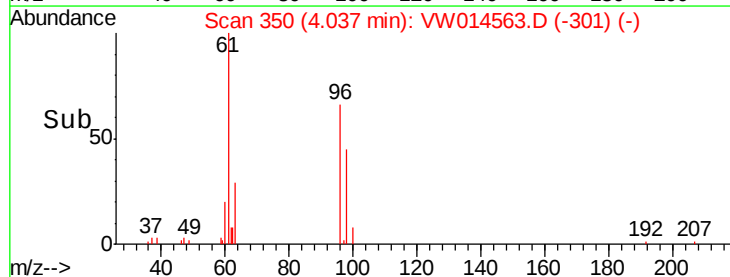
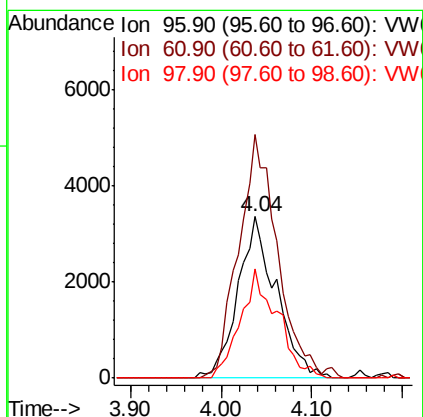
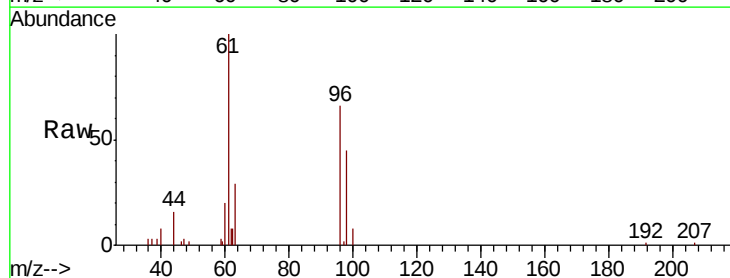
Tot Ion: 59 Resp: 3881
Ion Ratio Lower Upper
59 100
57 5.1 7.8 11.8#

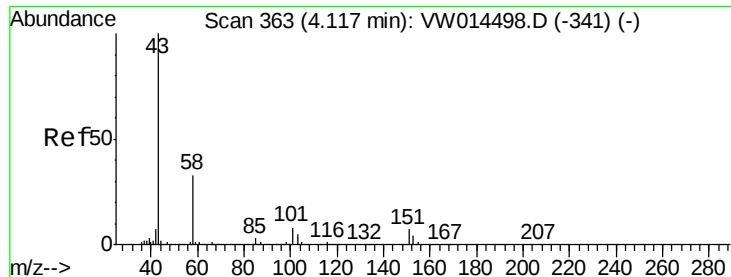


#12

1,1-Dichloroethene
Concen: 1.744 ug/l
RT: 4.04 min Scan# 350
Delta R.T. -0.00 min
Lab File: VW014563.D
Acq: 08 Jan 2020 16:49

Tgt Ion: 96 Resp: 9863
Ion Ratio Lower Upper
96 100
61 150.7 128.4 192.6
98 67.4 49.1 73.7





#16

Acetone

Concen: 42.727 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

Instrument :

MSVOA_W

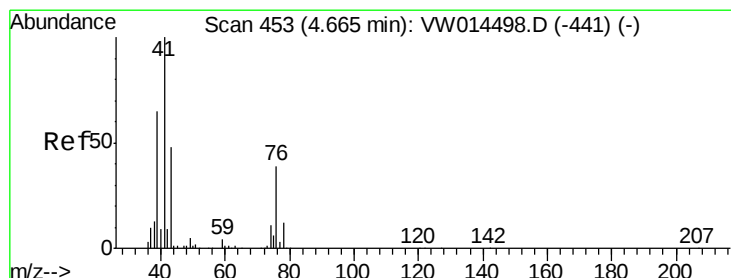
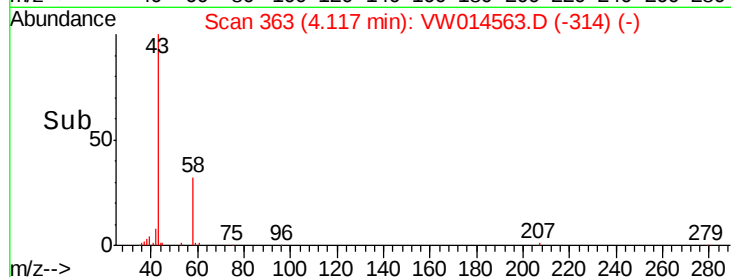
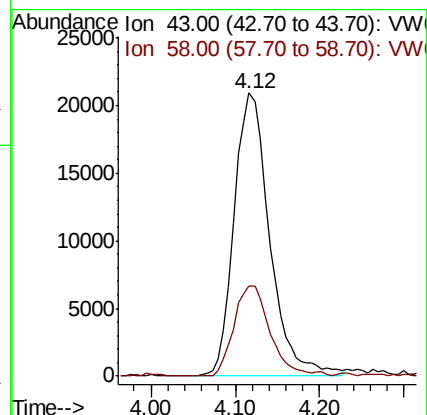
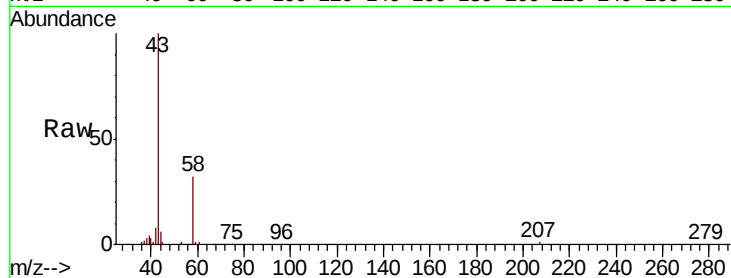
ClientSampleId :

Tot Ion: 43 Resp: 59932

Ion Ratio Lower Upper

43 100

58 31.6 26.6 39.8



#18

Methyl Acetate

Concen: 20.433 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW014563.D

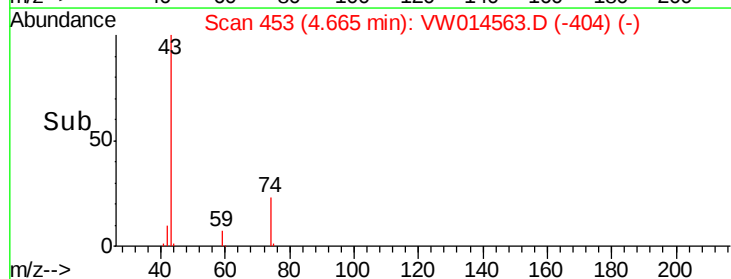
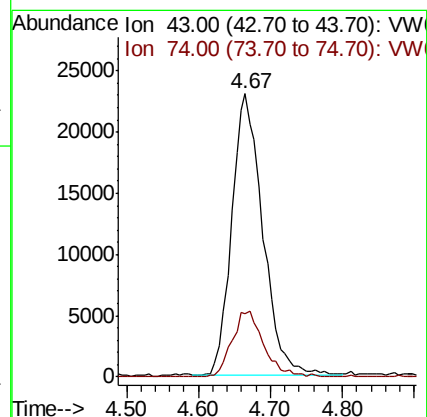
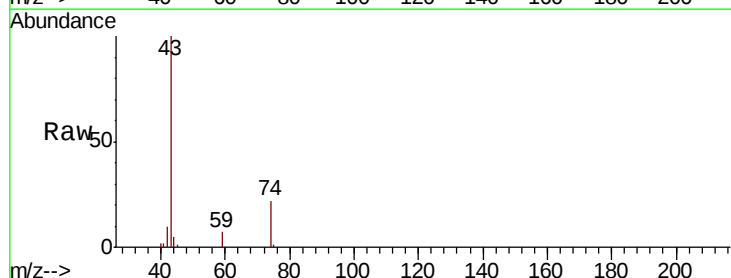
Acq: 08 Jan 2020 16:49

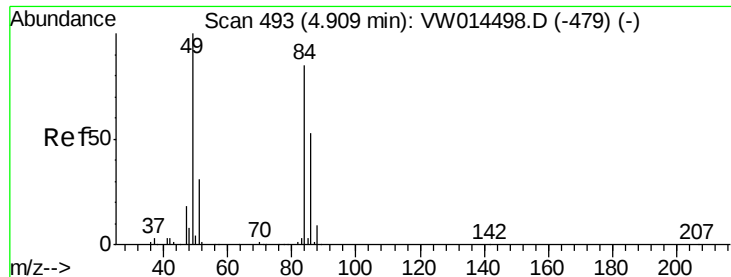
Tgt Ion: 43 Resp: 69221

Ion Ratio Lower Upper

43 100

74 23.5 19.3 28.9





#20

Methylene Chloride

Concen: 3.149 ug/l

RT: 4.92 min Scan# 494

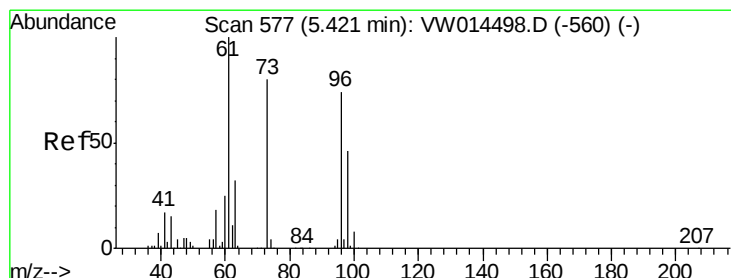
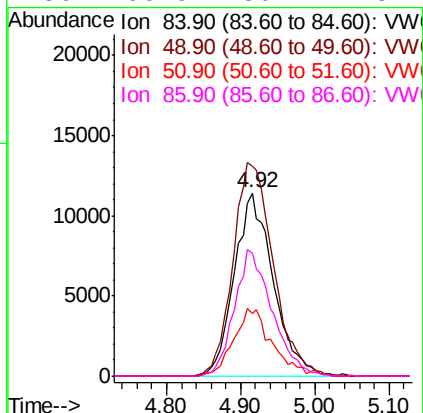
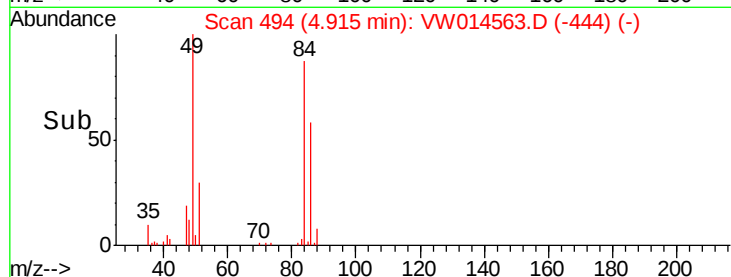
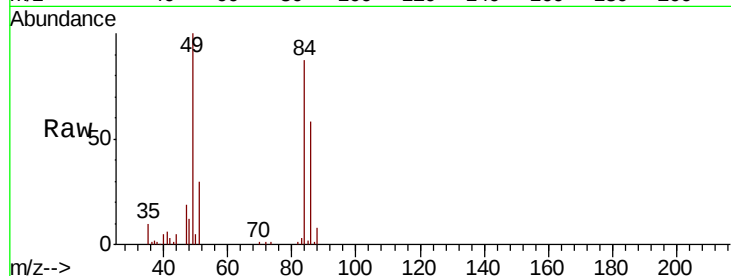
Delta R.T. 0.01 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:	84	Resp:	41883
Ion	Ratio	Lower	Upper
84	100		
49	114.5	94.4	141.6
51	34.0	29.5	44.3
86	66.9	50.2	75.2



#21

trans-1,2-Dichloroethene

Concen: 2.035 ug/l

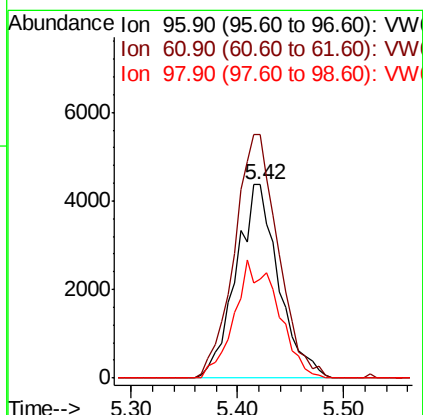
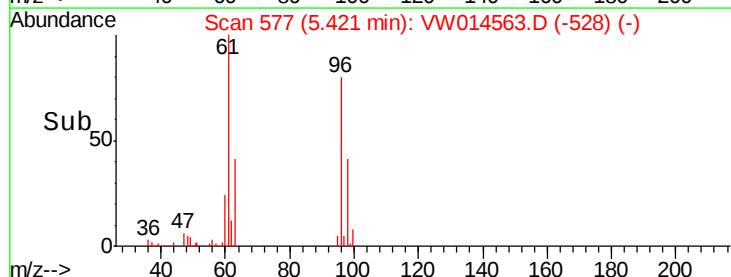
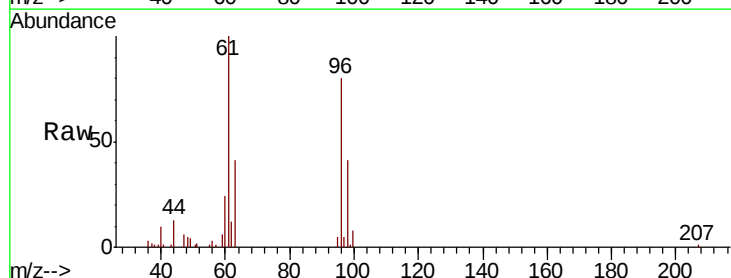
RT: 5.42 min Scan# 577

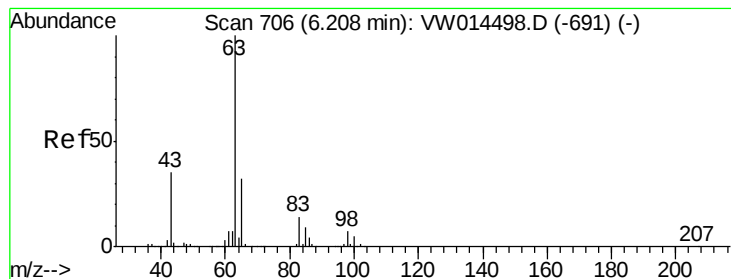
Delta R.T. -0.00 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

Tgt Ion:	96	Resp:	12218
Ion	Ratio	Lower	Upper
96	100		
61	125.8	107.8	161.6
98	51.0	49.4	74.0





#24

1,1-Dichloroethane

Concen: 4.229 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW014563.D

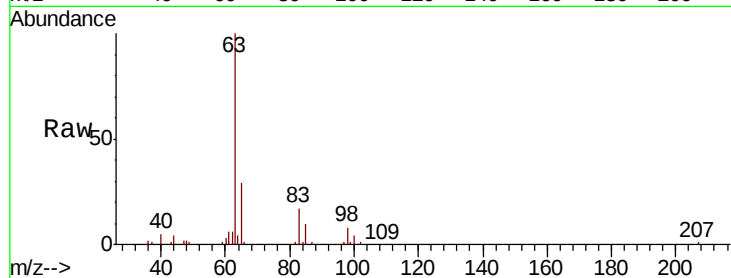
Acq: 08 Jan 2020 16:49

Instrument :

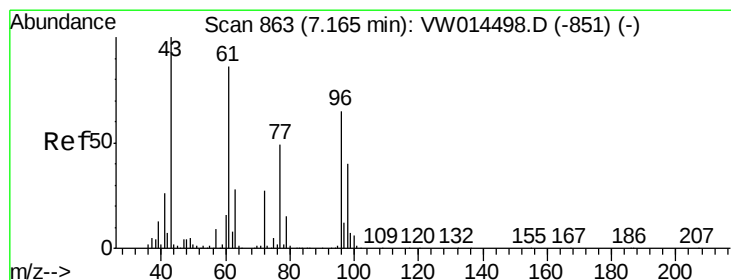
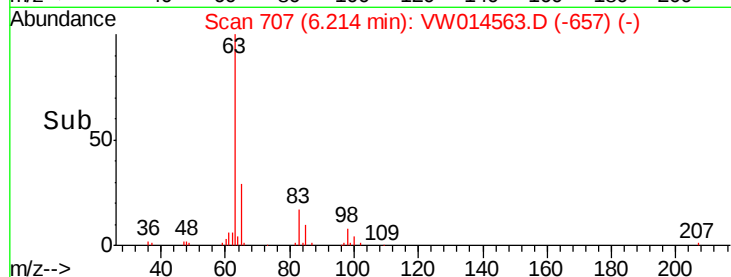
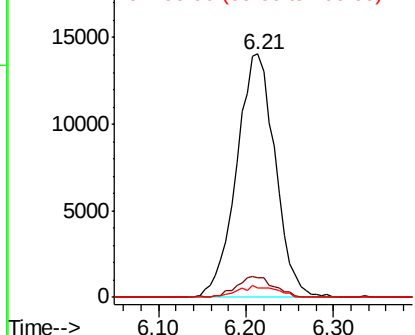
MSVOA_W

ClientSampleId :

Tot Ion:	63	Resp:	43140
Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.5	10.4
100	4.0	2.5	7.4



Abundance Ion 62.90 (62.60 to 63.60): VW
Ion 97.90 (97.60 to 98.60): VW
Ion 99.90 (99.60 to 100.60): VW



#25

2-Butanone

Concen: 1.993 ug/l

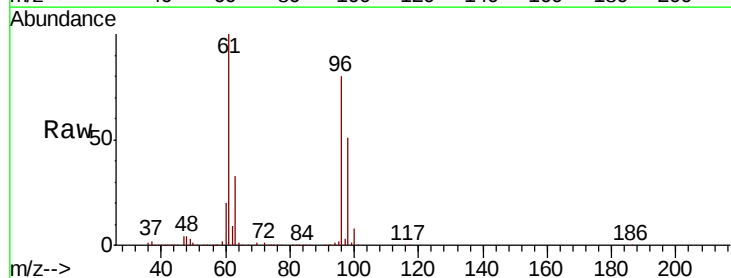
RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

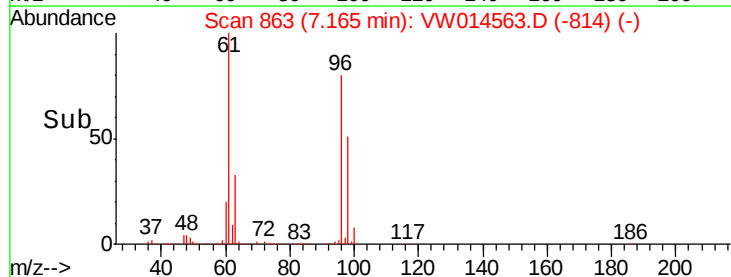
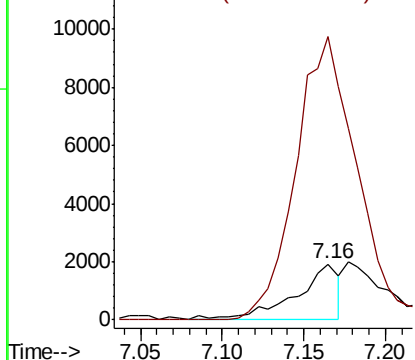
Lab File: VW014563.D

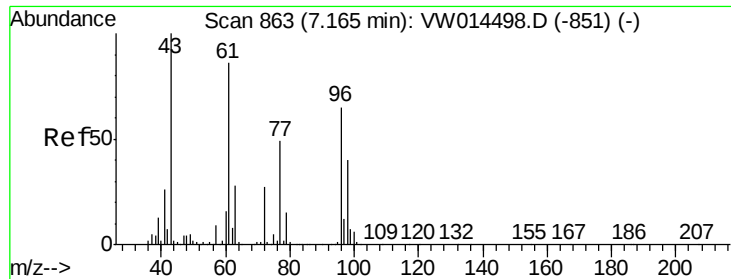
Acq: 08 Jan 2020 16:49

Tgt Ion:	43	Resp:	3587
Ion	Ratio	Lower	Upper
43	100		
72	504.3	21.9	32.9#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



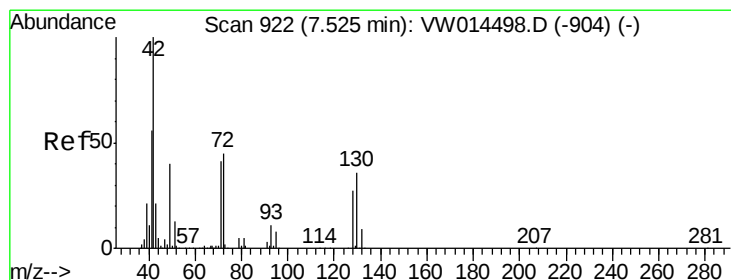
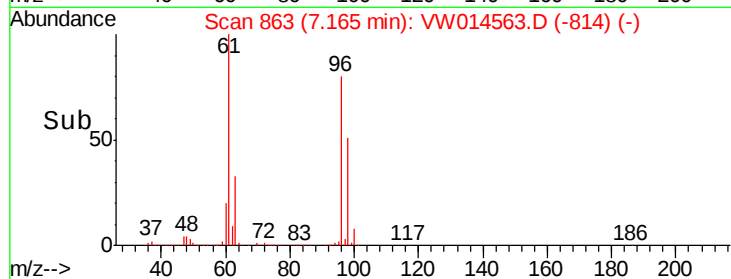
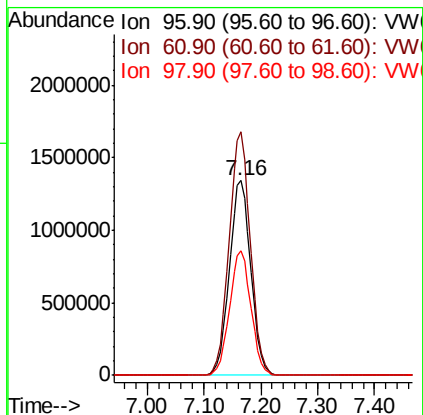
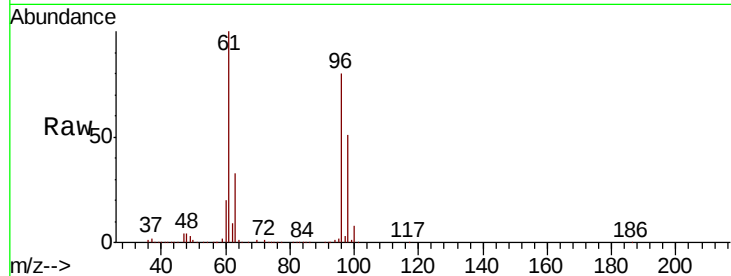


#27

cis-1,2-Dichloroethene
Concen: 556.313 ug/l
RT: 7.16 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW014563.D
Acq: 08 Jan 2020 16:49

Instrument :
MSVOA_W
ClientSampled :

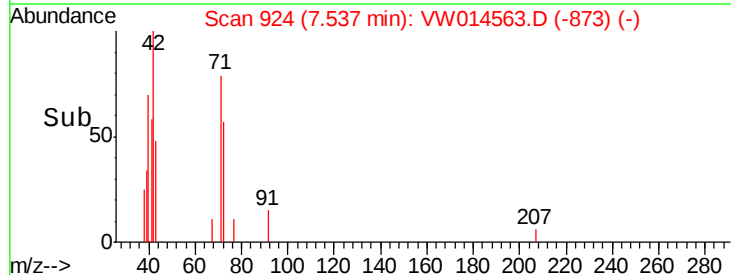
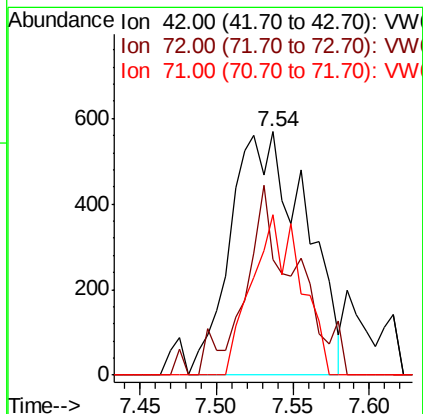
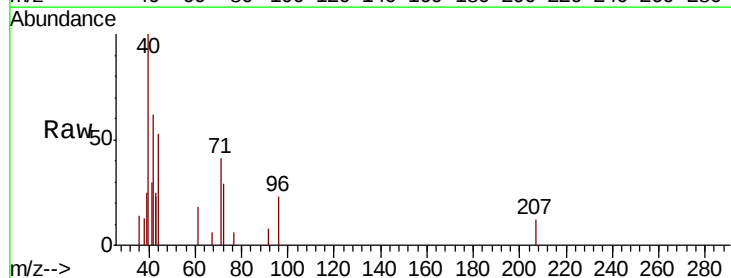
Tot Ion: 96 Resp: 3509455
Ion Ratio Lower Upper
96 100
61 124.6 0.0 274.8
98 64.0 0.0 128.6

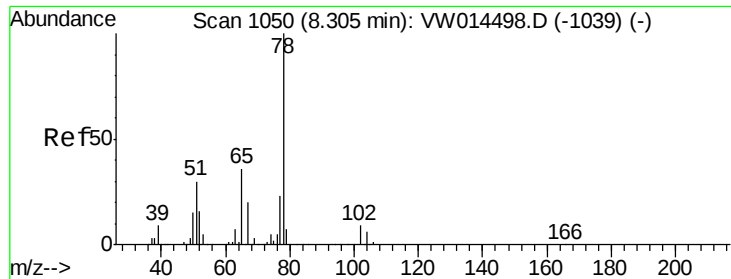


#29

Tetrahydrofuran
Concen: 1.729 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW014563.D
Acq: 08 Jan 2020 16:49

Tgt Ion: 42 Resp: 1928
Ion Ratio Lower Upper
42 100
72 52.9 34.5 51.7#
71 43.3 32.0 48.0





#33

1,2-Dichloroethane-d4

Concen: 50.476 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

Instrument :

MSVOA_W

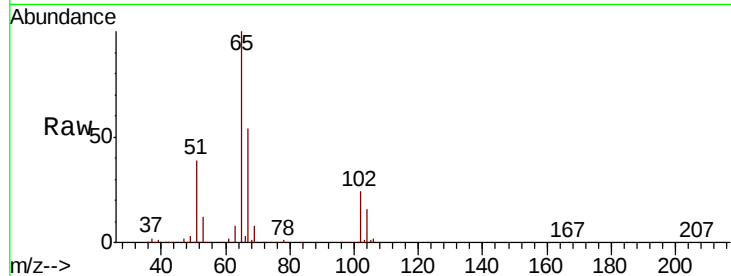
ClientSampleId :

Tot Ion: 65 Resp: 250742

Ion Ratio Lower Upper

65 100

67 54.3 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

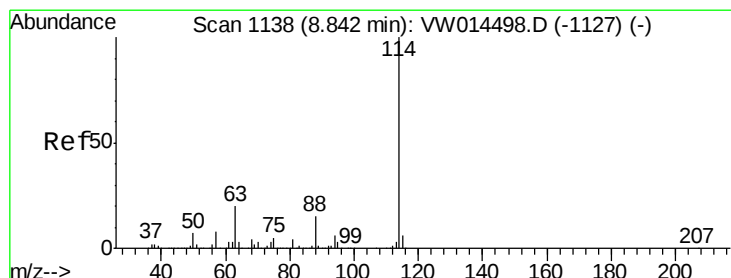
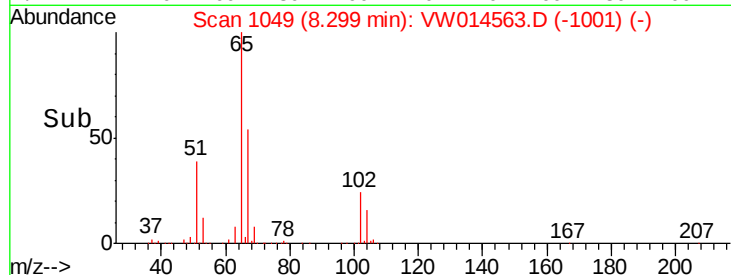
8.30

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

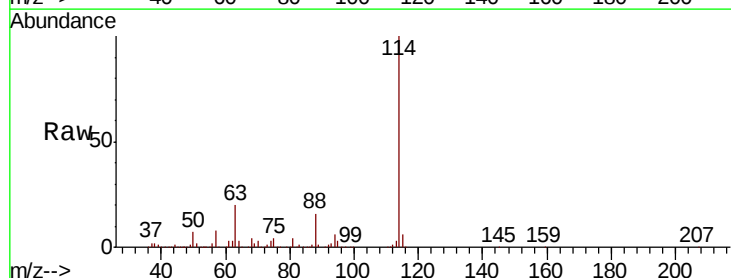
Tgt Ion: 114 Resp: 877392

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.4

88 16.2 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

600000

500000

400000

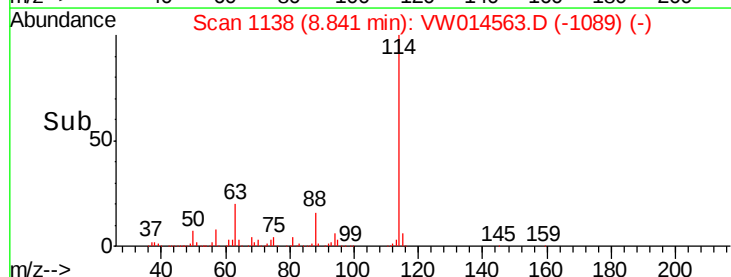
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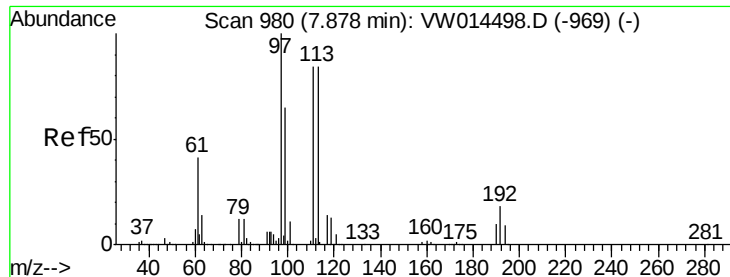
200000

100000

0

Time-->

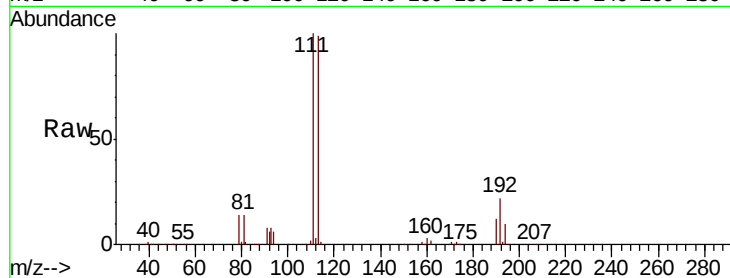




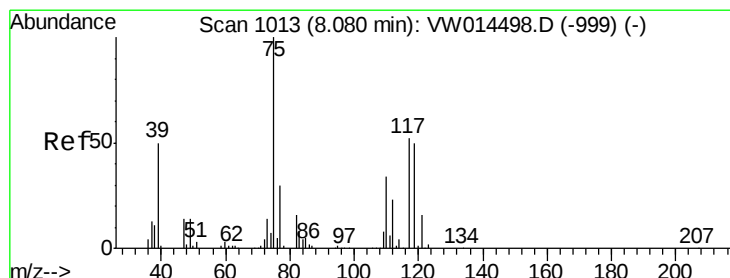
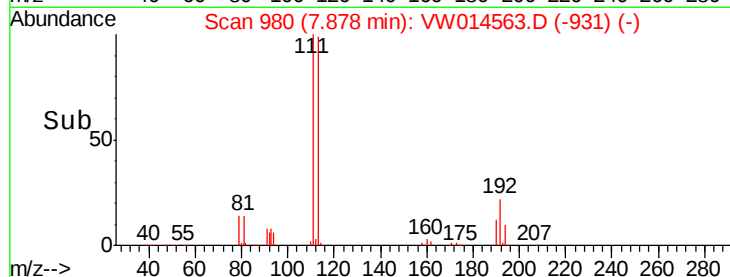
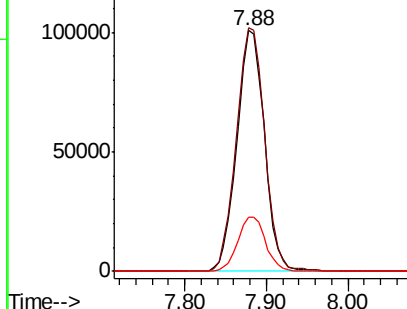
#35
 Dibromofluoromethane
 Concen: 47.067 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW014563.D
 Acq: 08 Jan 2020 16:49

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.4	122.2
192	22.8	17.8	26.8

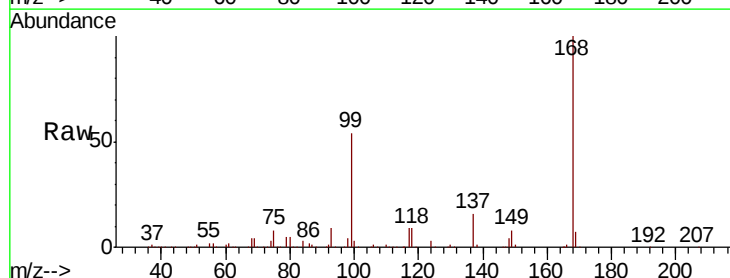


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

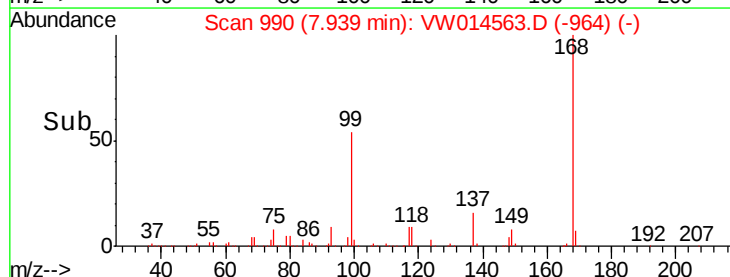
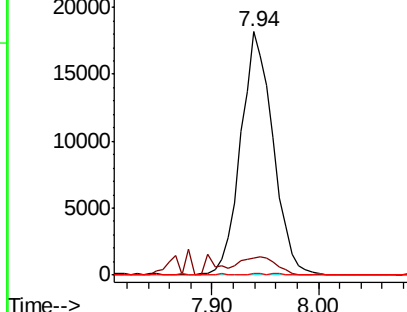


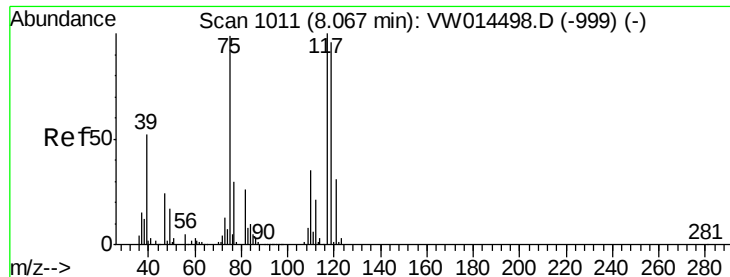
#36
 1,1-Dichloropropene
 Concen: 4.588 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW014563.D
 Acq: 08 Jan 2020 16:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	17.8	53.5#
77	0.2	24.7	37.1#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

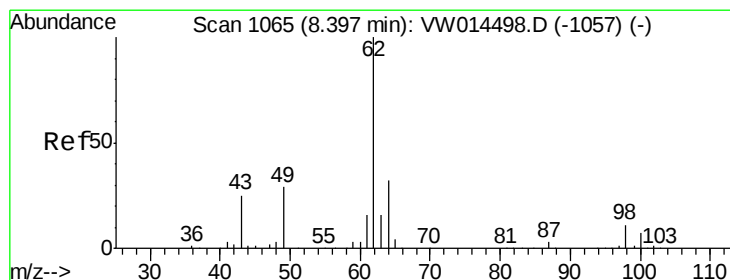
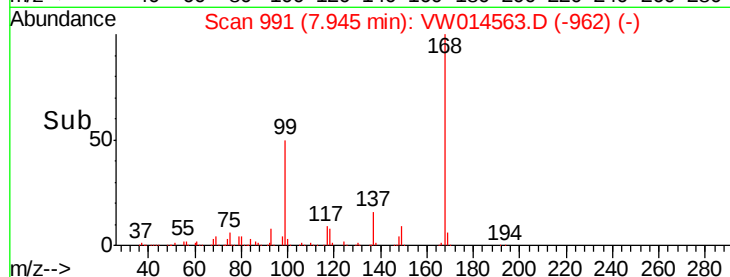
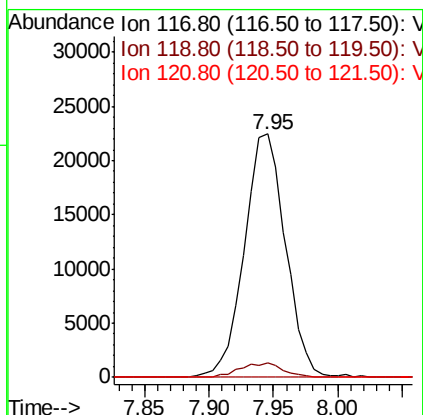
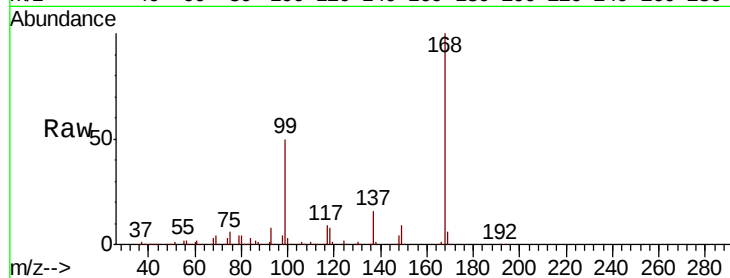




#38
Carbon Tetrachloride
Concen: 6.753 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW014563.D
Acq: 08 Jan 2020 16:49

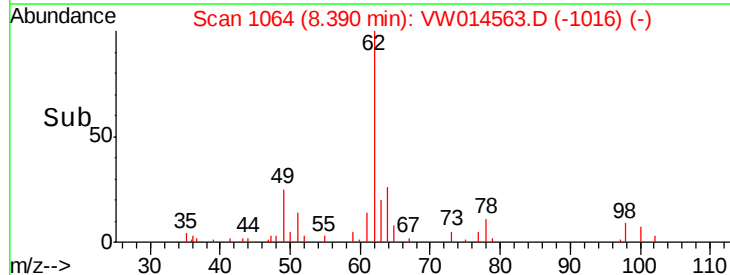
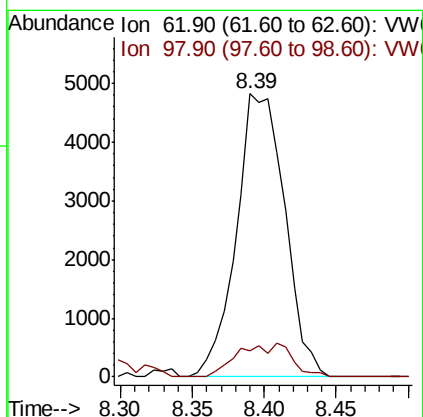
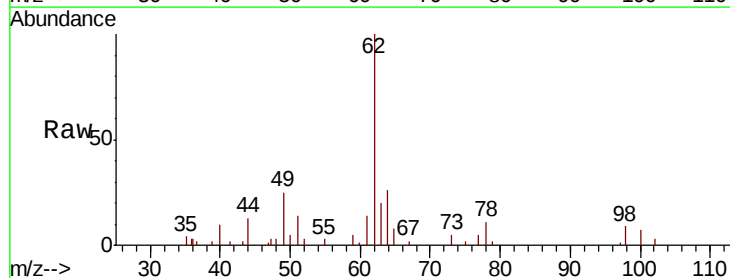
Instrument :
MSVOA_W
ClientSampled :

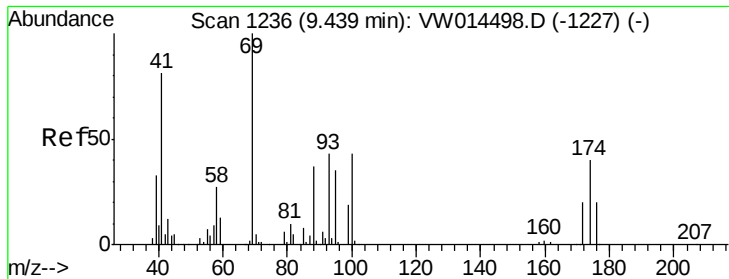
Tot Ion:117 Resp: 49555
Ion Ratio Lower Upper
117 100
119 6.2 77.0 115.6#
121 0.0 24.6 36.8#



#42
1,2-Dichloroethane
Concen: 1.811 ug/l
RT: 8.39 min Scan# 1064
Delta R.T. -0.01 min
Lab File: VW014563.D
Acq: 08 Jan 2020 16:49

Tgt Ion: 62 Resp: 11245
Ion Ratio Lower Upper
62 100
98 8.0 0.0 22.0





#49

1,4-Dioxane

Concen: 12.596 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.02 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

Instrument :
MSVOA_W
ClientSampled :

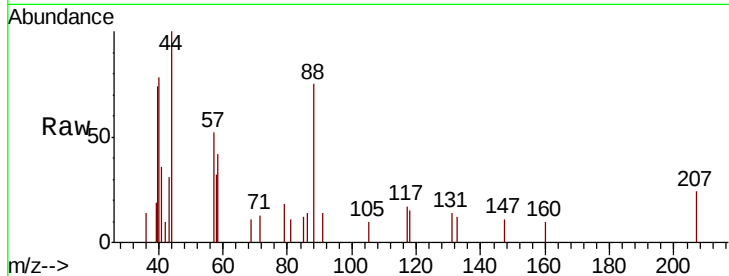
Tot Ion: 88 Resp: 683

Ion Ratio Lower Upper

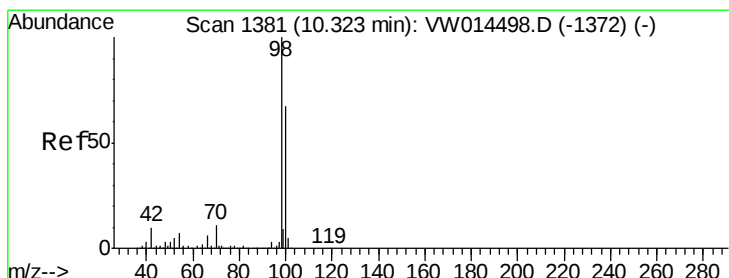
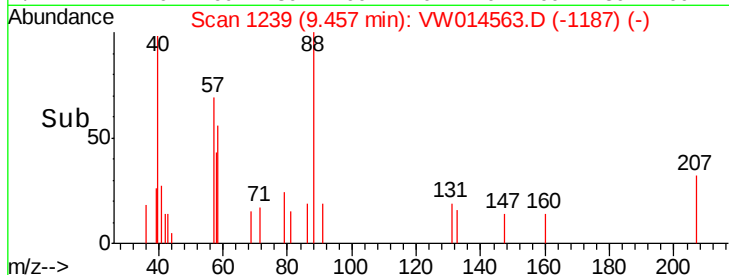
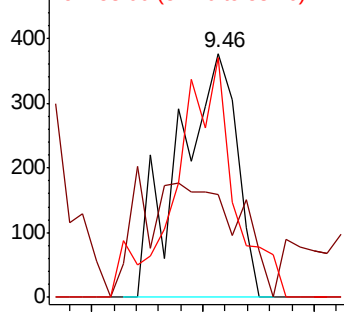
88 100

43 61.5 24.9 37.3#

58 97.7 56.9 85.3#



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 41.774 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW014563.D

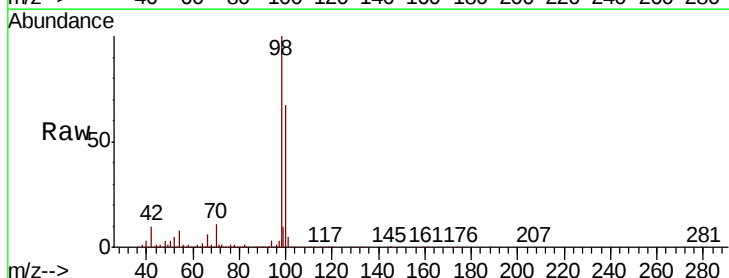
Acq: 08 Jan 2020 16:49

Tgt Ion: 98 Resp: 874180

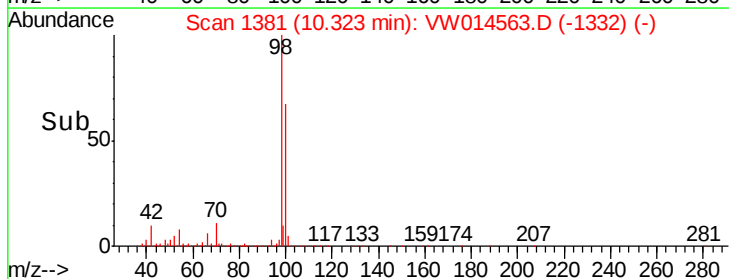
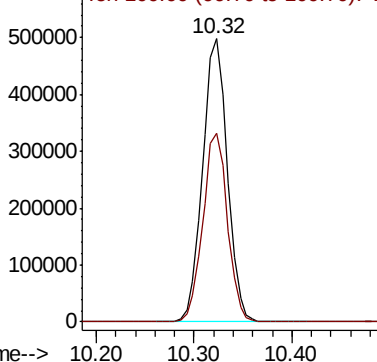
Ion Ratio Lower Upper

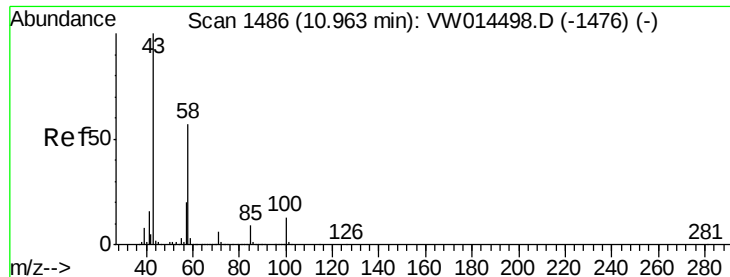
98 100

100 66.6 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW

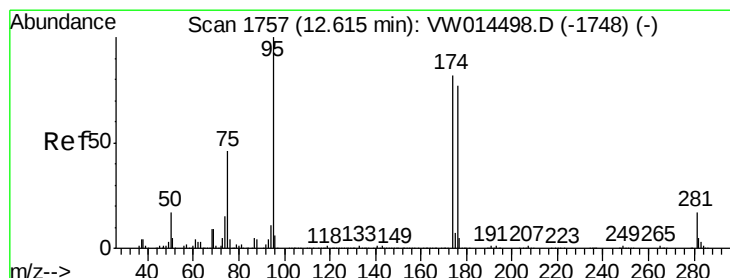
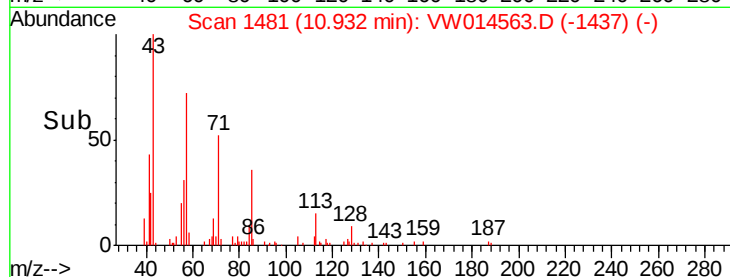
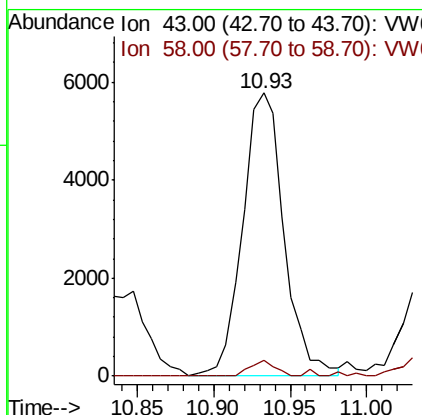
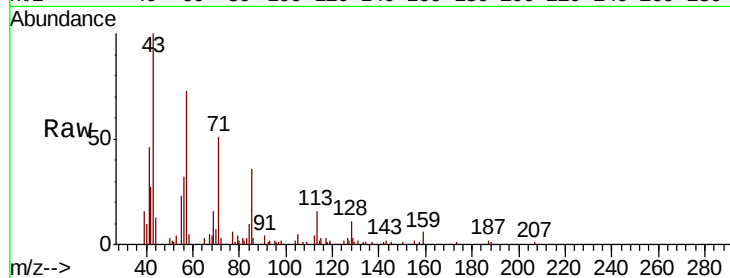




#59
2-Hexanone
Concen: 4.355 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.03 min
Lab File: VW014563.D
Acq: 08 Jan 2020 16:49

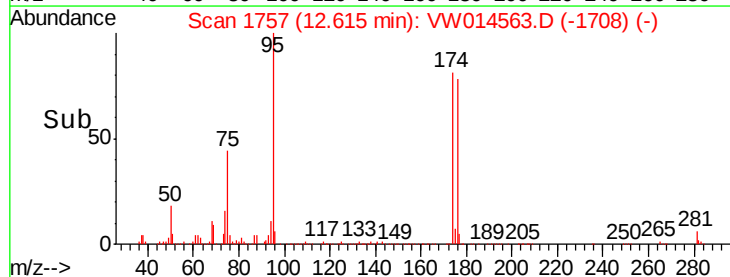
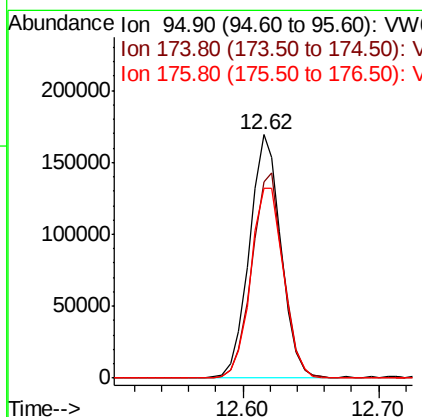
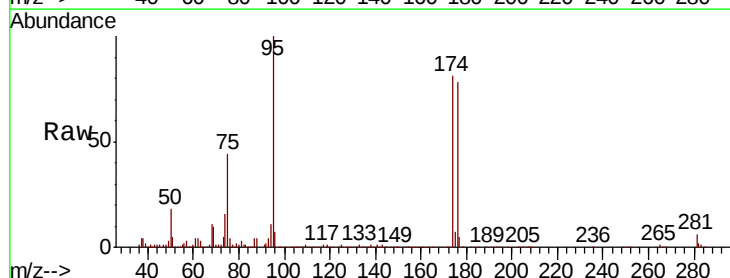
Instrument :
MSVOA_W
ClientSampleId :

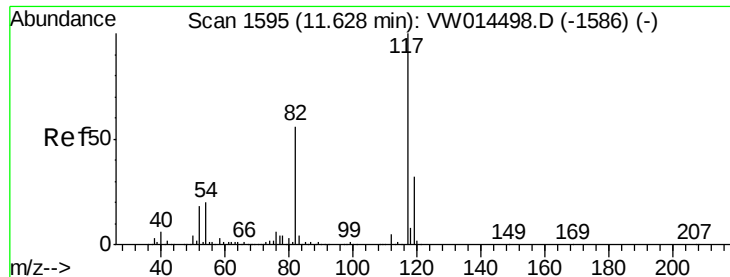
Tot Ion: 43 Resp: 10855
Ion Ratio Lower Upper
43 100
58 3.3 28.7 86.3#



#62
4-Bromofluorobenzene
Concen: 38.405 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW014563.D
Acq: 08 Jan 2020 16:49

Tgt Ion: 95 Resp: 272599
Ion Ratio Lower Upper
95 100
174 85.3 0.0 168.6
176 82.6 0.0 162.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

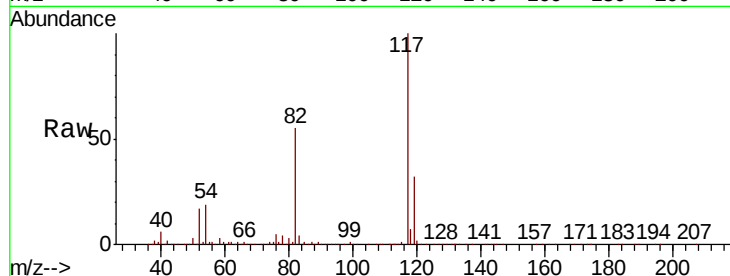
Tot Ion:117 Resp: 697031

Ion Ratio Lower Upper

117 100

82 55.0 44.6 67.0

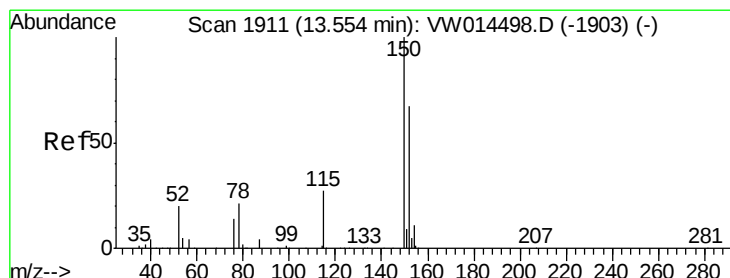
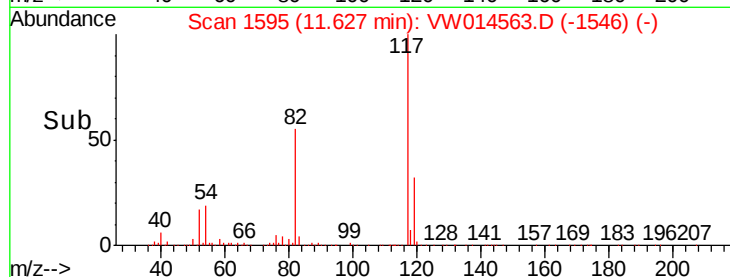
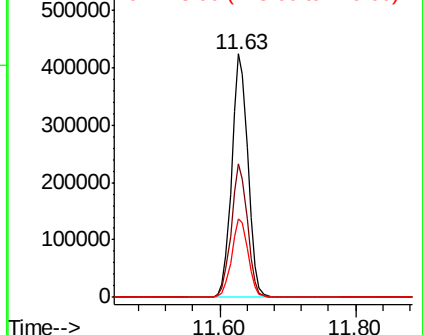
119 32.1 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

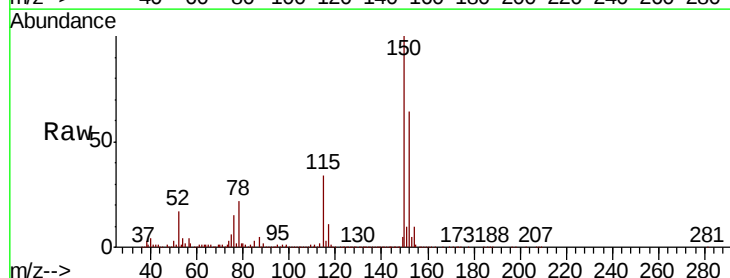
Tgt Ion:152 Resp: 279283

Ion Ratio Lower Upper

152 100

115 54.7 27.7 83.1

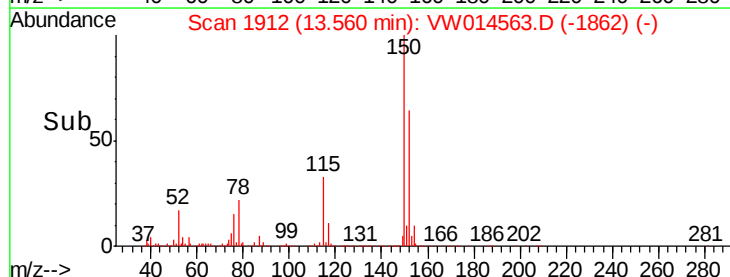
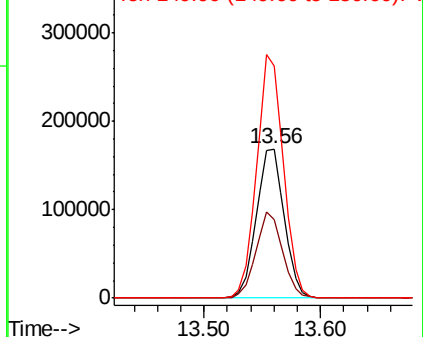
150 156.9 0.0 343.4

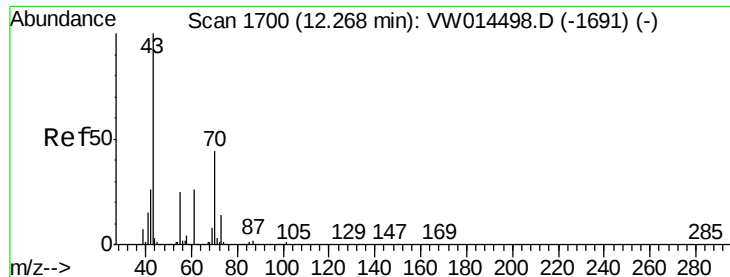


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 5.354 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 43 Resp: 24601

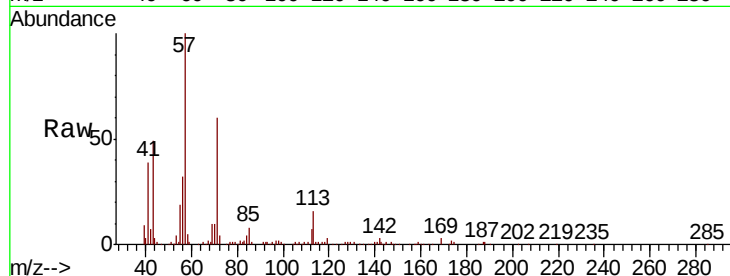
Ion Ratio Lower Upper

43 100

70 23.1 36.5 54.7#

55 41.5 20.9 31.3#

61 0.0 20.7 31.1#

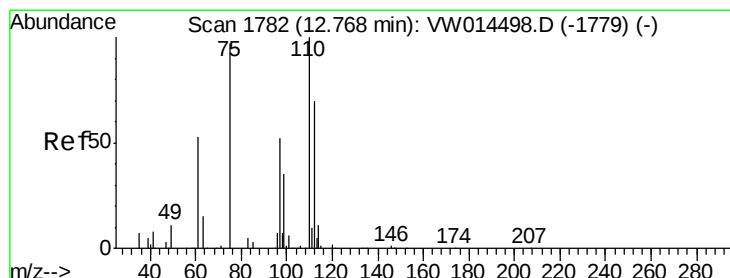
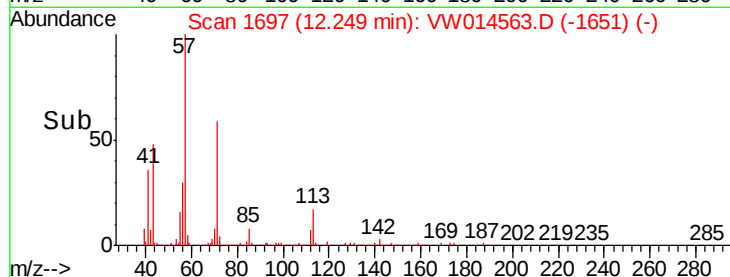
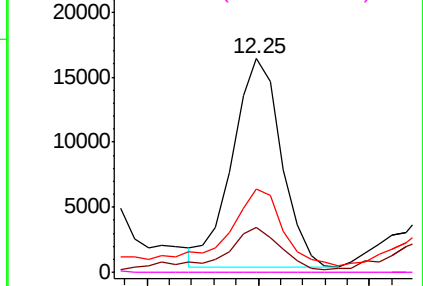


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 48.524 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW014563.D

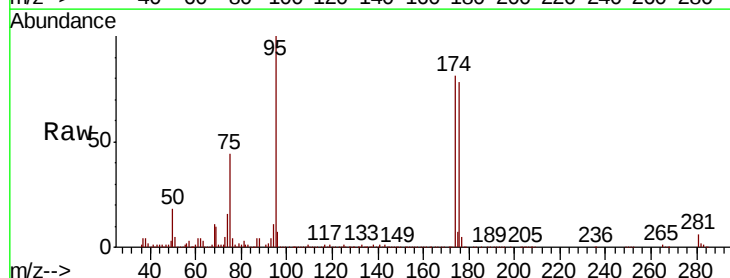
Acq: 08 Jan 2020 16:49

Tgt Ion: 75 Resp: 128131

Ion Ratio Lower Upper

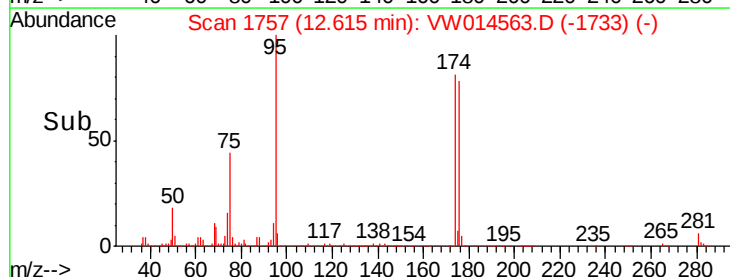
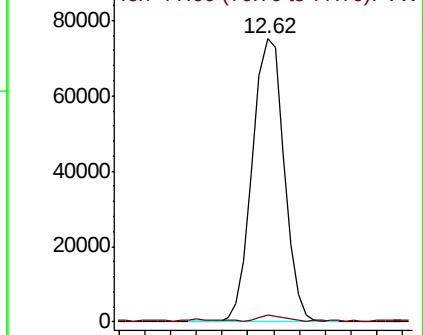
75 100

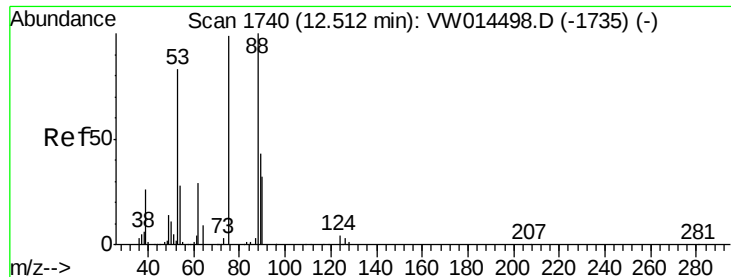
77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 108.113 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW014563.D

Acq: 08 Jan 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

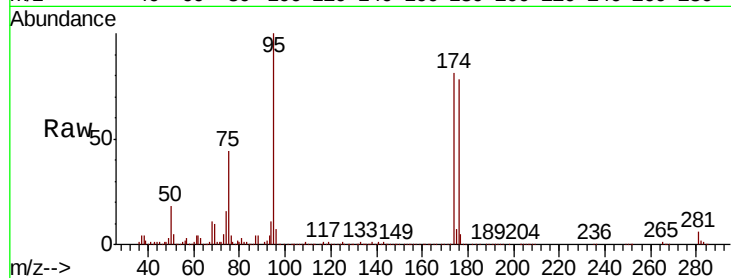
Tot Ion: 75 Resp: 128131

Ion Ratio Lower Upper

75 100

53 0.6 70.9 106.3#

89 0.2 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

