

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102419\
 Data File : VW013719.D
 Acq On : 24 Oct 2019 18:54
 Operator : SY/VA
 Sample : K5501-20RE
 Misc : 6.46G/5ML/MSVOA W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 182-66-(2)RE

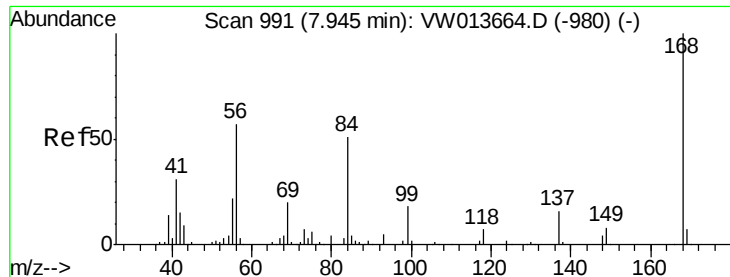
Quant Time: Oct 25 07:59:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 23 14:11:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	258489	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	390344	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	268165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	70178	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	110909	57.20	ug/l	0.00
Spiked Amount			Recovery	=	114.40%	
35) Dibromofluoromethane	7.88	113	119253	54.98	ug/l	0.00
Spiked Amount			Recovery	=	109.96%	
50) Toluene-d8	10.32	98	418674	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
62) 4-Bromofluorobenzene	12.62	95	90601	30.28	ug/l	0.00
Spiked Amount			Recovery	=	60.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	172	1.486	ug/l #	71
16) Acetone	4.12	43	2178	5.297	ug/l	90
20) Methylene Chloride	4.92	84	4721	Below Cal		92
28) Bromochloromethane	7.64	49	19	1.353	ug/l #	7
36) 1,1-Dichloropropene	7.95	75	15847	4.359	ug/l #	47
38) Carbon Tetrachloride	7.95	117	22085	6.746	ug/l #	17
51) 4-Methyl-2-Pentanone	10.32	43	1933	1.460	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	43196	85.710	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	43196	161.981	ug/l #	14

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

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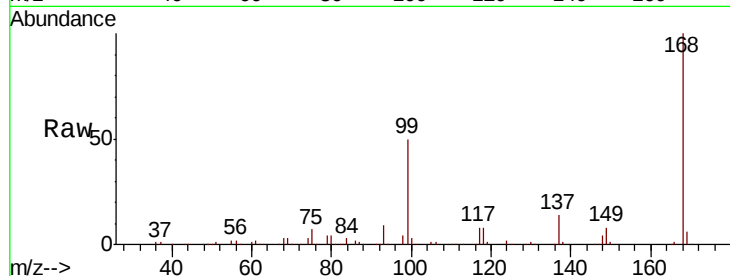
182-66-(2)RE

Tot Ion:168 Resp: 258489

Ion Ratio Lower Upper

168 100

99 49.6 39.0 58.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

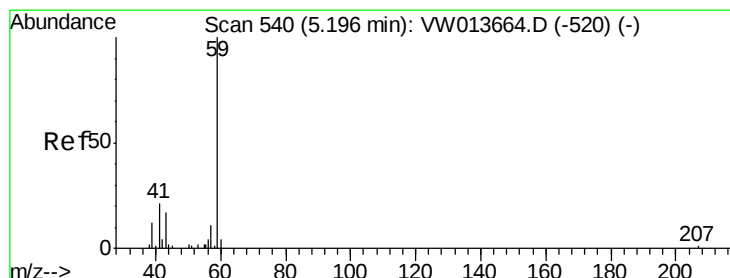
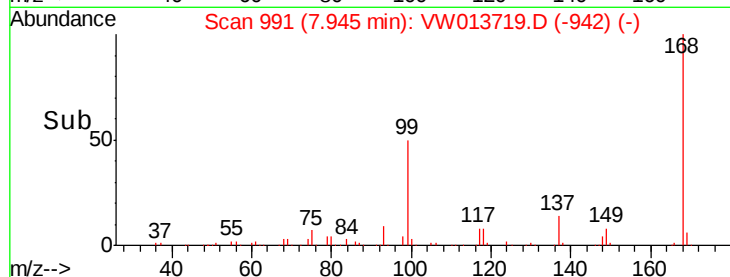
7.95

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.486 ug/l

RT: 5.17 min Scan# 536

Delta R.T. -0.02 min

Lab File: VW013719.D

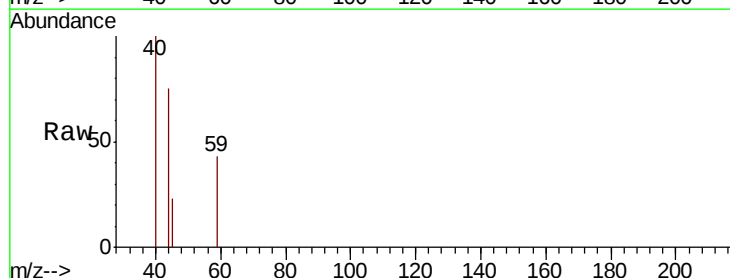
Acq: 24 Oct 2019 18:54

Tgt Ion: 59 Resp: 172

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

120

100

80

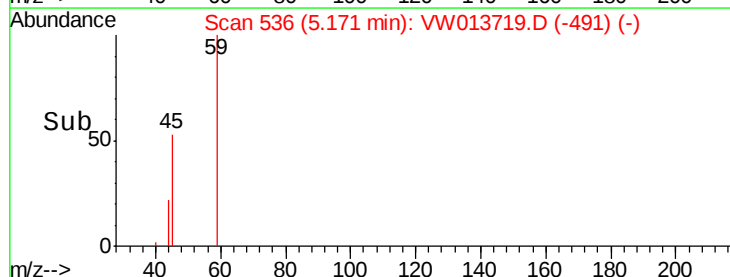
60

40

20

0

Time-->





#16

Acetone

Concen: 5.297 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW013719.D

Acq: 24 Oct 2019 18:54

Instrument :

MSVOA_W

ClientSampleId :

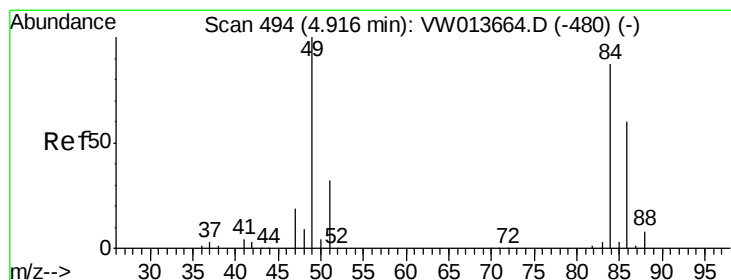
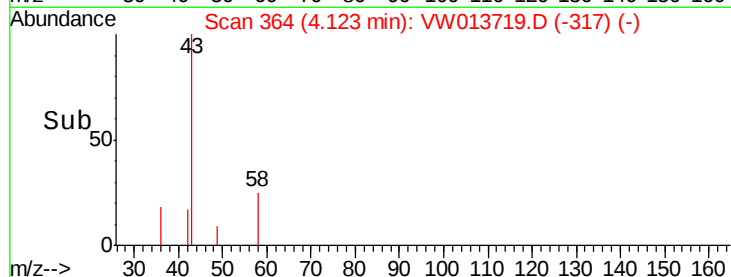
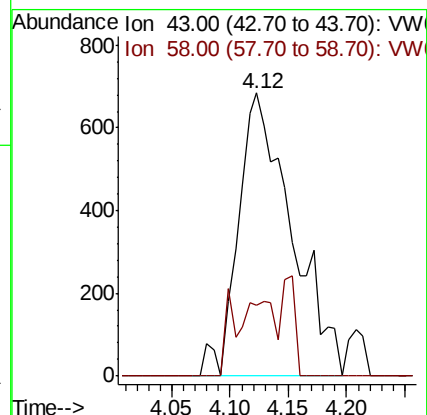
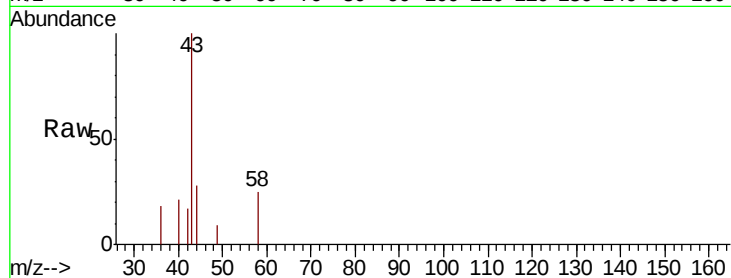
182-66-(2)RE

Tot Ion: 43 Resp: 2178

Ion Ratio Lower Upper

43 100

58 24.9 24.1 36.1



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW013719.D

Acq: 24 Oct 2019 18:54

Tgt Ion: 84 Resp: 4721

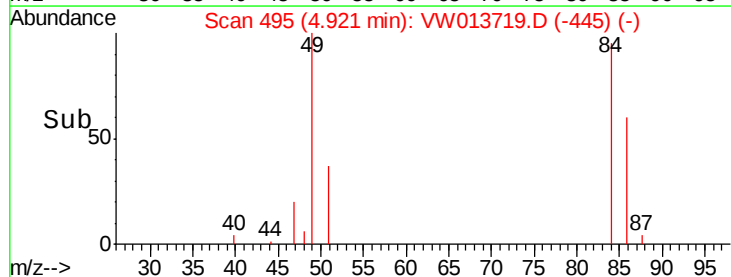
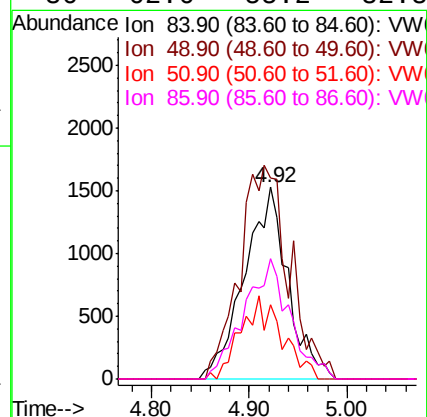
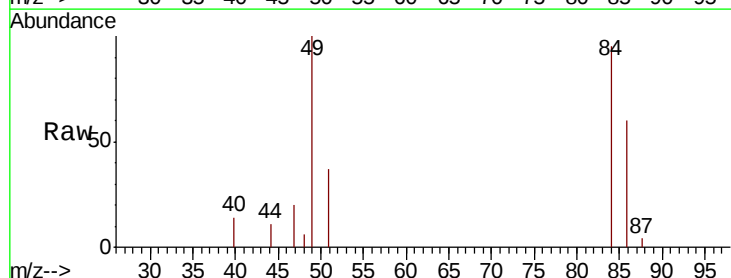
Ion Ratio Lower Upper

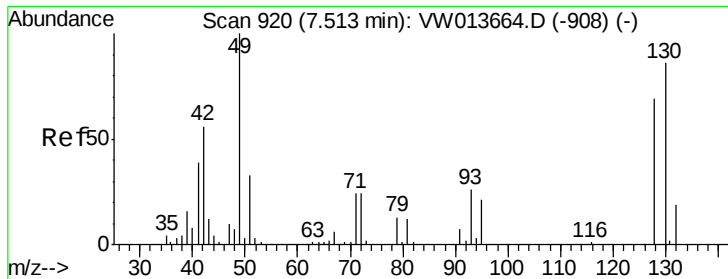
84 100

49 104.8 91.8 137.6

51 38.9 29.8 44.6

86 62.6 55.2 82.8





#28

Bromochloromethane

Concen: 1.353 ug/l

RT: 7.64 min Scan# 941

Delta R.T. 0.13 min

Lab File: VW013719.D

Acq: 24 Oct 2019 18:54

Instrument :
MSVOA_W
ClientSampleId :
182-66-(2)RE

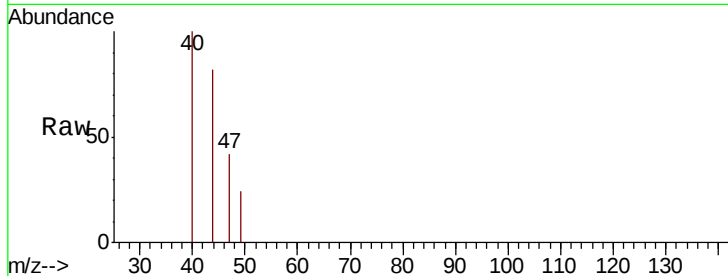
Tot Ion: 49 Resp: 19

Ion Ratio Lower Upper

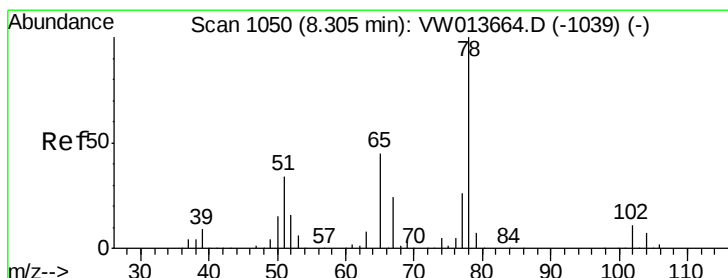
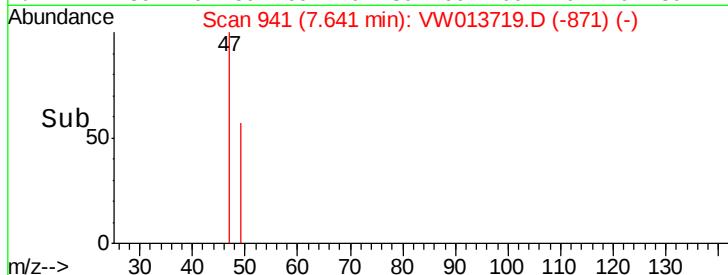
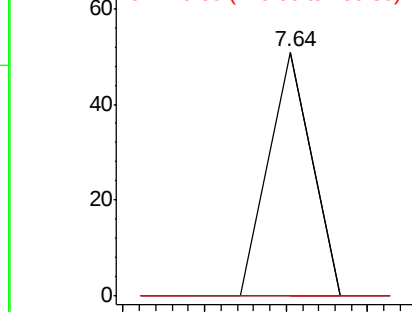
49 100

129 0.0 0.0 0.6

130 0.0 67.5 101.3#



Abundance Ion 48.90 (48.60 to 49.60): VW
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 57.196 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013719.D

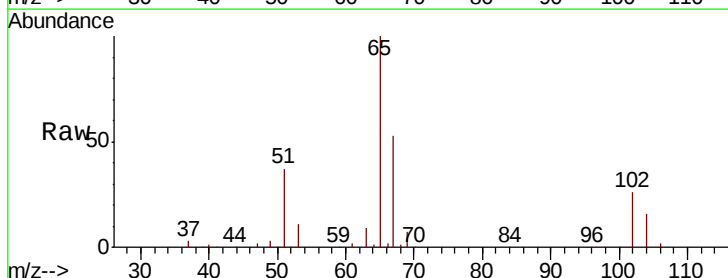
Acq: 24 Oct 2019 18:54

Tgt Ion: 65 Resp: 110909

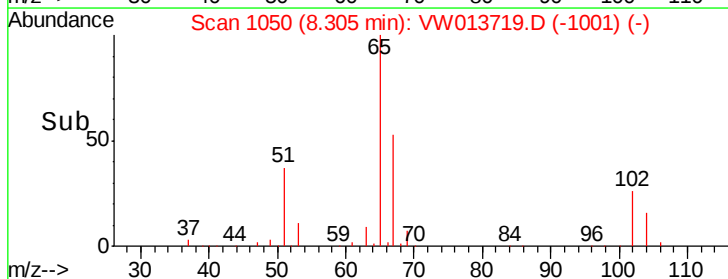
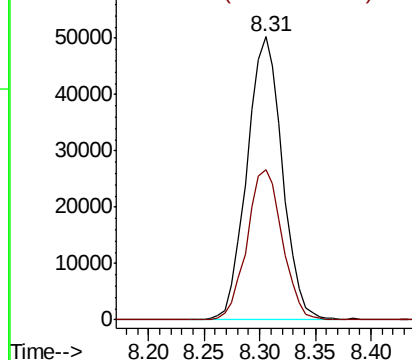
Ion Ratio Lower Upper

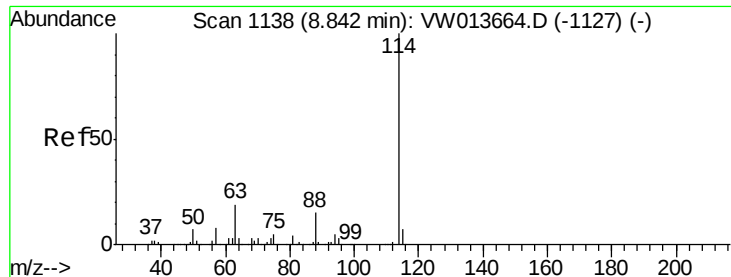
65 100

67 53.3 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW013719.D

Acq: 24 Oct 2019 18:54

Instrument :

MSVOA_W

ClientSampleId :

182-66-(2)RE

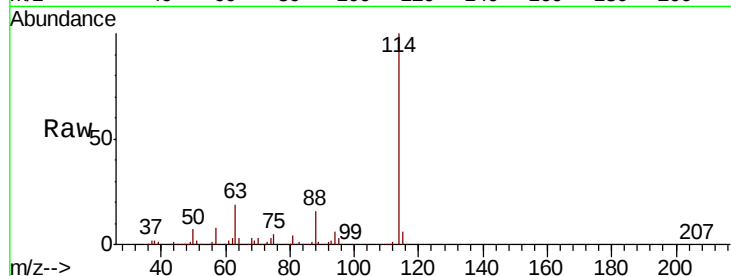
Tot Ion:114 Resp: 390344

Ion Ratio Lower Upper

114 100

63 19.4 0.0 37.6

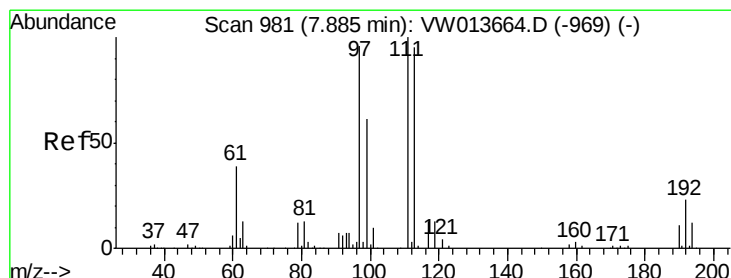
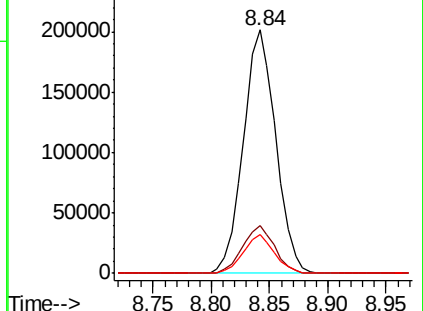
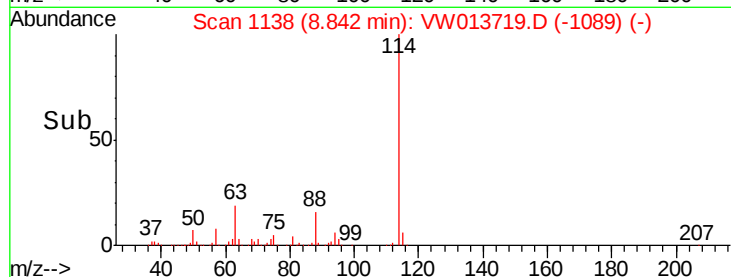
88 15.8 0.0 30.2



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



#35

Dibromofluoromethane

Concen: 54.981 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW013719.D

Acq: 24 Oct 2019 18:54

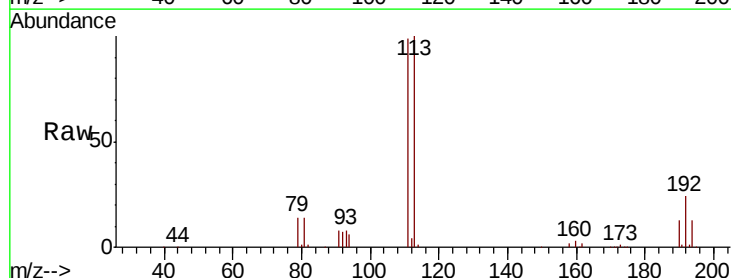
Tgt Ion:113 Resp: 119253

Ion Ratio Lower Upper

113 100

111 101.2 83.0 124.6

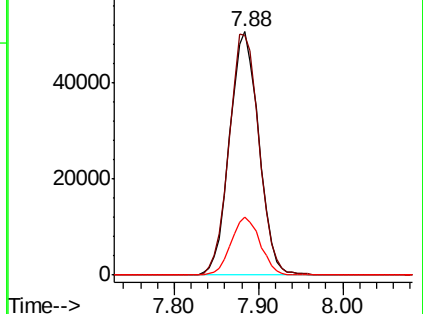
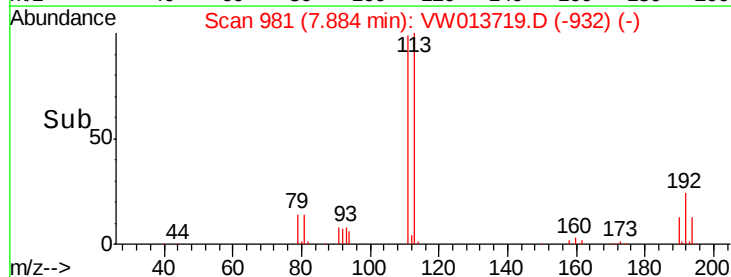
192 23.5 19.4 29.2

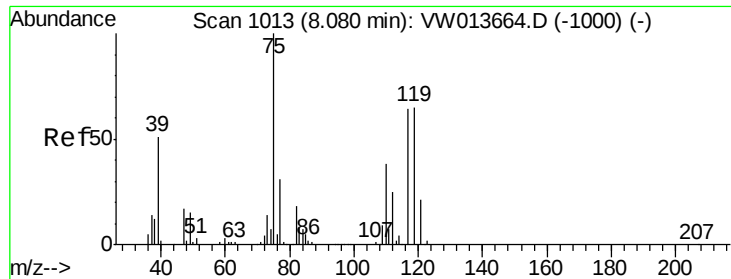


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

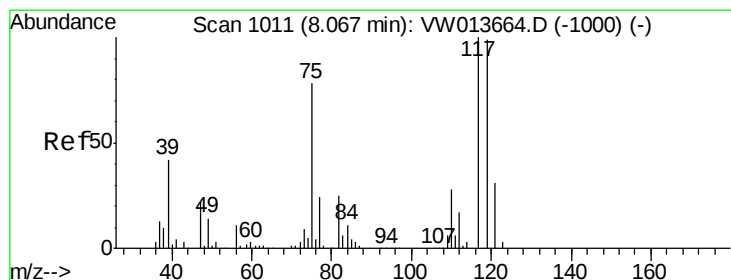
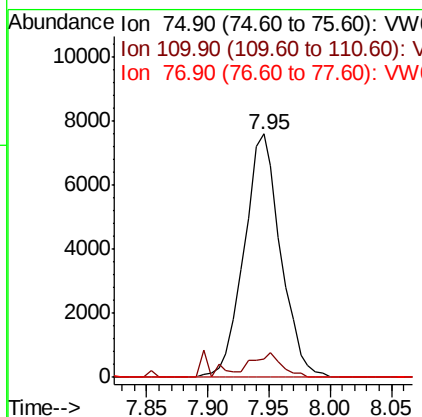
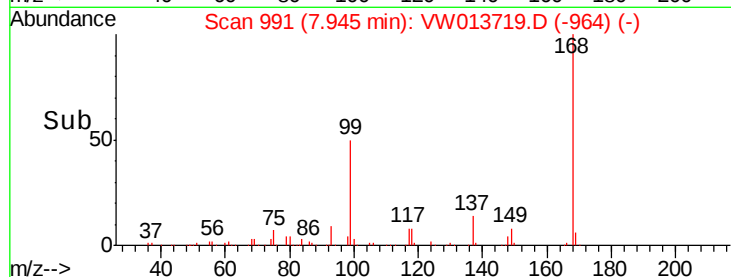
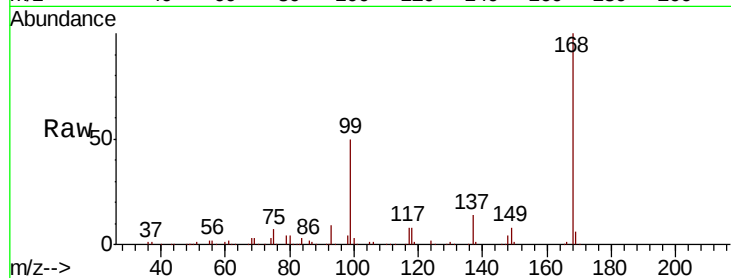




#36
 1,1-Dichloropropene
 Concen: 4.359 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013719.D
 Acq: 24 Oct 2019 18:54

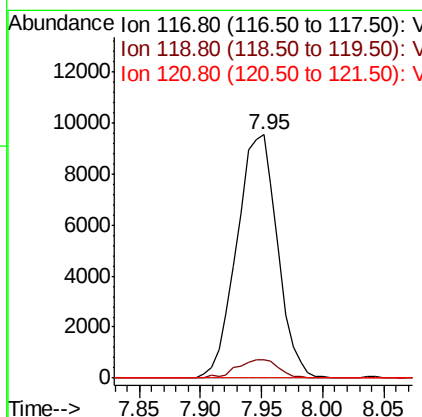
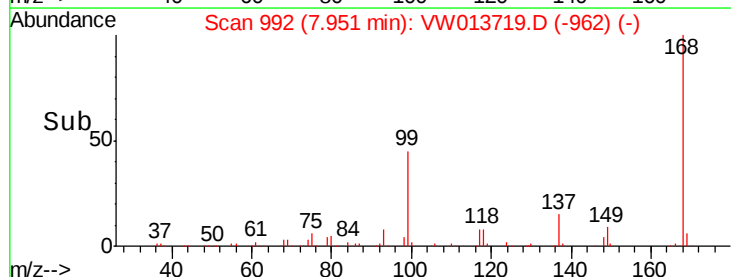
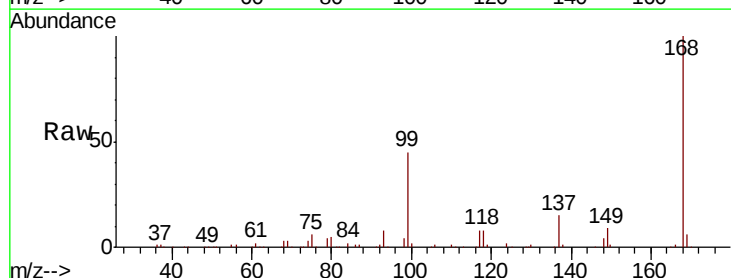
Instrument :
 MSVOA_W
 ClientSampleId :
 182-66-(2)RE

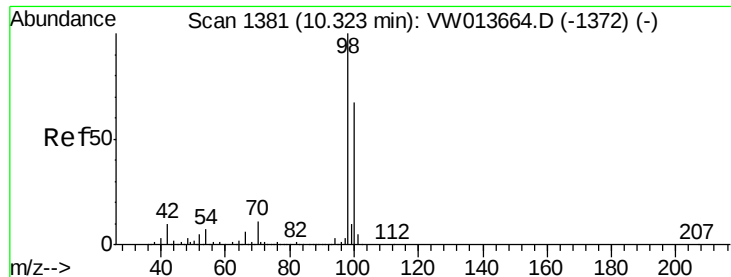
Tot Ion: 75 Resp: 15847
 Ion Ratio Lower Upper
 75 100
 110 7.9 18.7 56.1#
 77 0.0 25.4 38.0#



#38
 Carbon Tetrachloride
 Concen: 6.746 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW013719.D
 Acq: 24 Oct 2019 18:54

Tgt Ion: 117 Resp: 22085
 Ion Ratio Lower Upper
 117 100
 119 7.6 79.0 118.4#
 121 0.0 24.5 36.7#





#50

Toluene-d8

Concen: 47.372 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013719.D

Acq: 24 Oct 2019 18:54

Instrument :

MSVOA_W

ClientSampled :

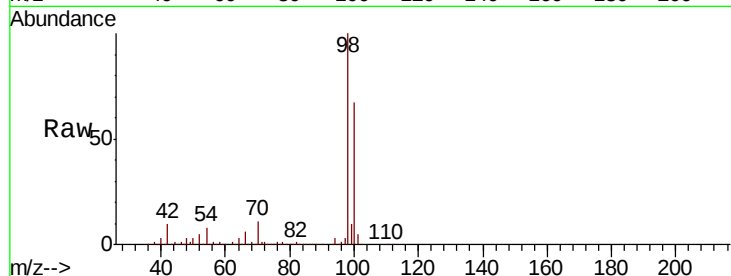
182-66-(2)RE

Tot Ion: 98 Resp: 418674

Ion Ratio Lower Upper

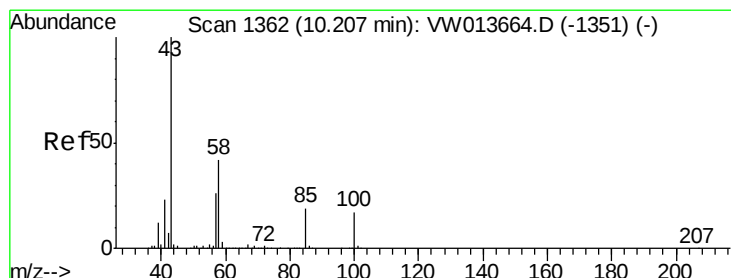
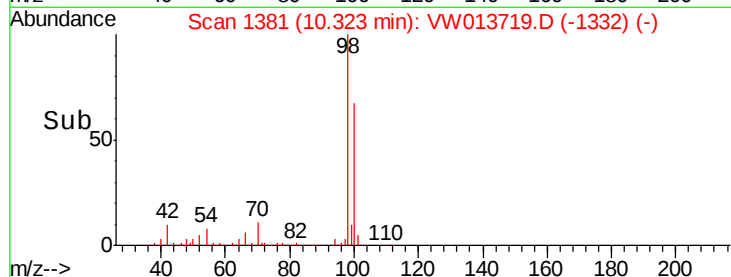
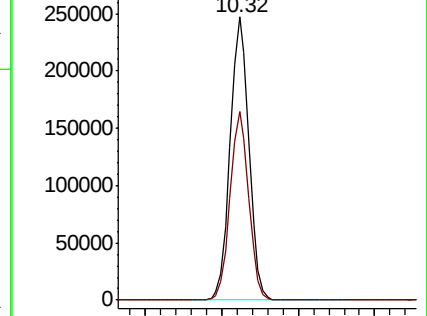
98 100

100 66.1 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.460 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.12 min

Lab File: VW013719.D

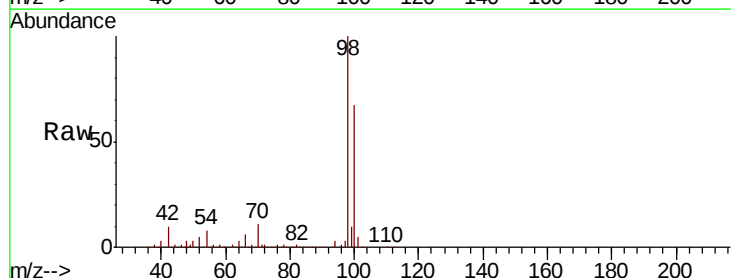
Acq: 24 Oct 2019 18:54

Tgt Ion: 43 Resp: 1933

Ion Ratio Lower Upper

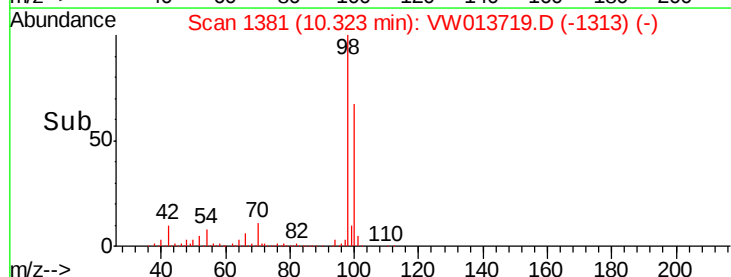
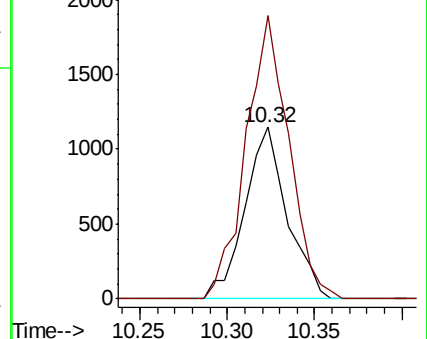
43 100

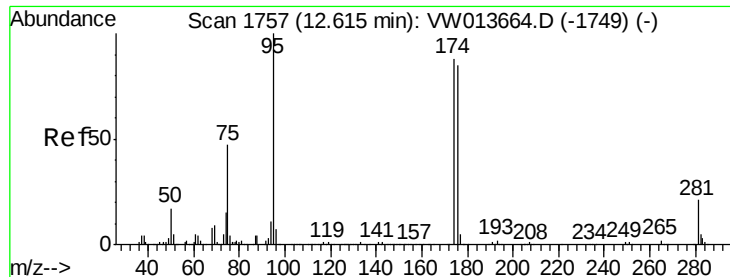
58 167.1 32.6 49.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

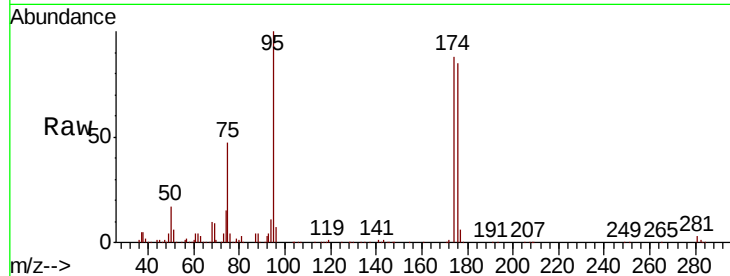




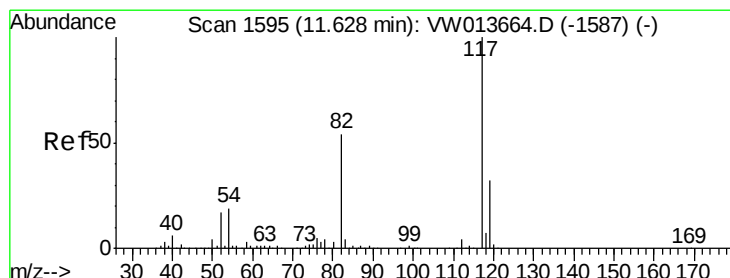
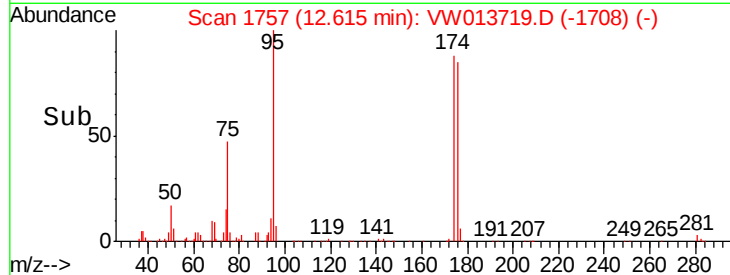
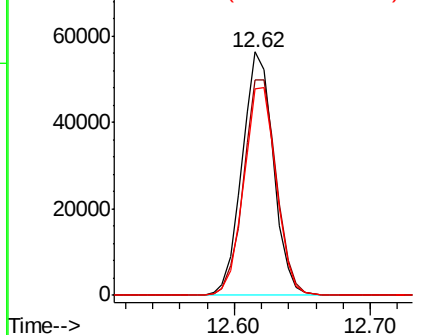
#62
4-Bromofluorobenzene
Concen: 30.275 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013719.D
Acq: 24 Oct 2019 18:54

Instrument :
MSVOA_W
ClientSampleId :
182-66-(2)RE

Tot Ion: 95 Resp: 90601
Ion Ratio Lower Upper
95 100
174 92.8 0.0 183.6
176 88.7 0.0 178.0

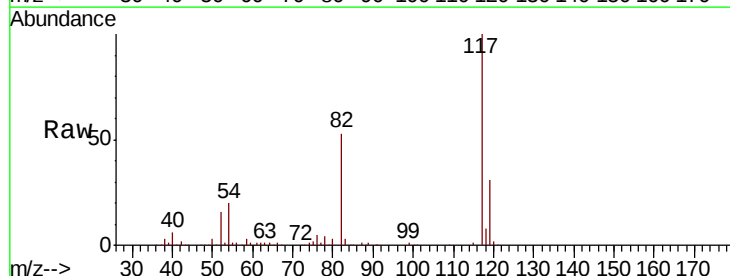


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

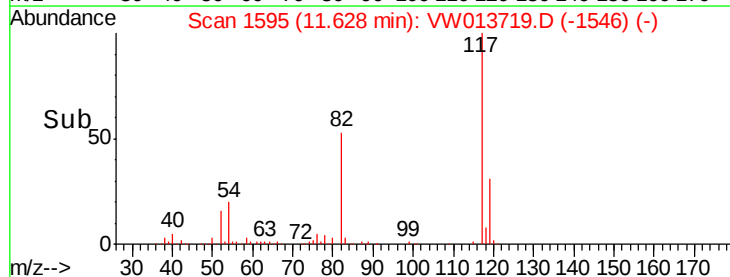
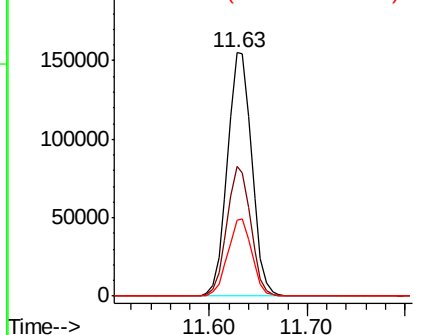


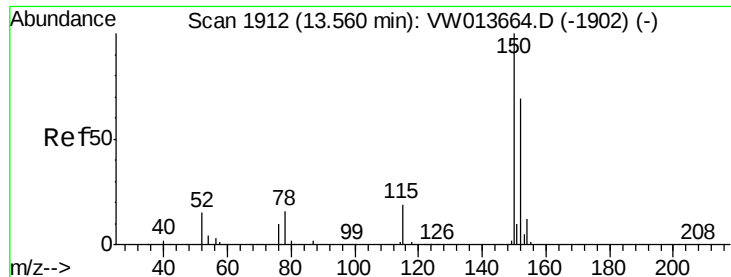
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013719.D
Acq: 24 Oct 2019 18:54

Tgt Ion: 117 Resp: 268165
Ion Ratio Lower Upper
117 100
82 53.1 43.6 65.4
119 31.0 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VW
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW013719.D

Acq: 24 Oct 2019 18:54

Instrument :

MSVOA_W

ClientSampleId :

182-66-(2)RE

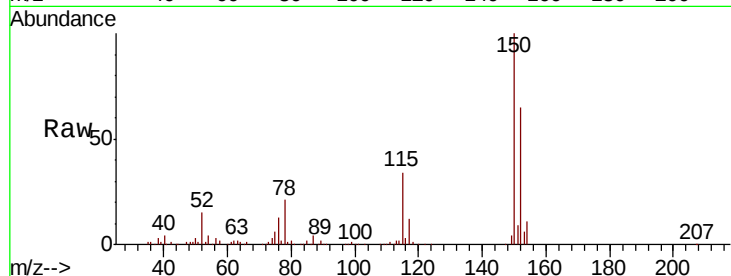
Tot Ion:152 Resp: 70178

Ion Ratio Lower Upper

152 100

115 52.8 27.4 82.2

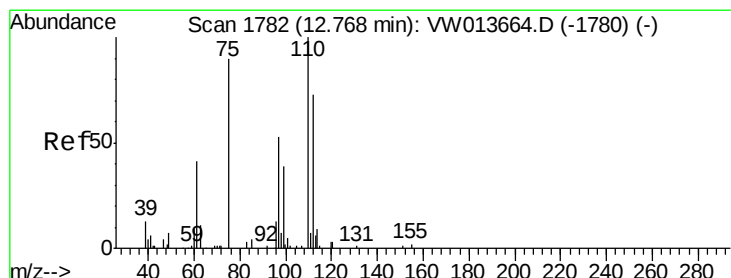
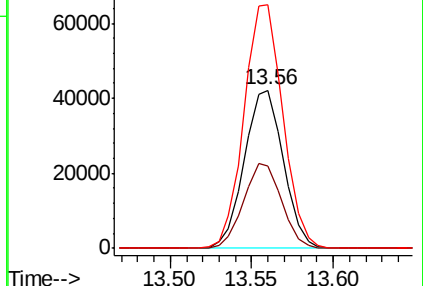
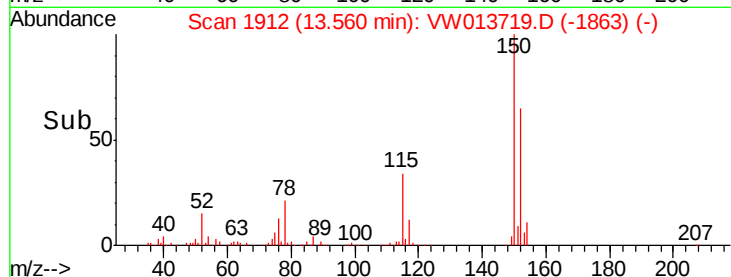
150 153.8 0.0 345.4



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



#76

1,2,3-Trichloropropane

Concen: 85.710 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013719.D

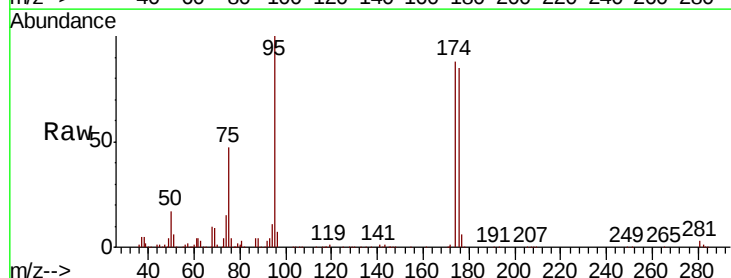
Acq: 24 Oct 2019 18:54

Tgt Ion: 75 Resp: 43196

Ion Ratio Lower Upper

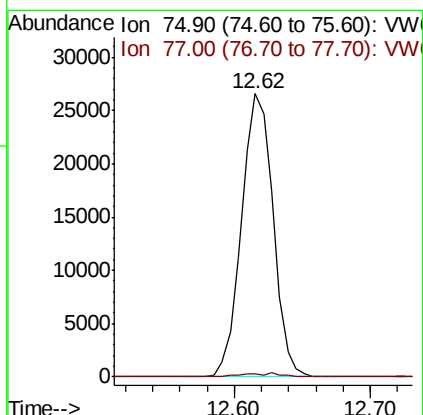
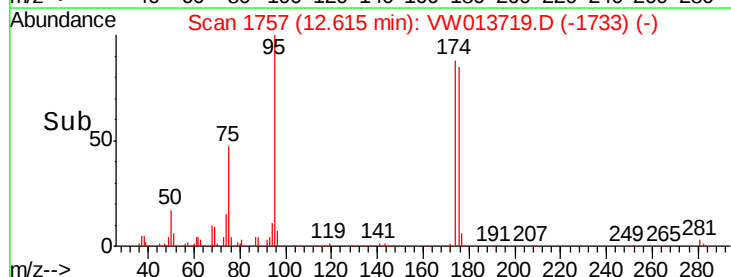
75 100

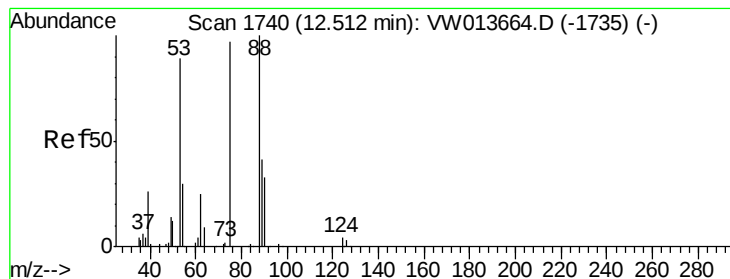
77 0.9 0.0 0.0#



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: 161.981 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013719.D

Acq: 24 Oct 2019 18:54

Instrument :

MSVOA_W

ClientSampleId :

182-66-(2)RE

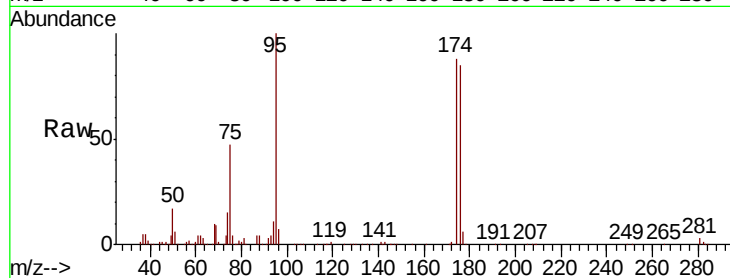
Tot Ion: 75 Resp: 43196

Ion Ratio Lower Upper

75 100

53 0.0 71.7 107.5#

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

