

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091519\
 Data File : VW012989.D
 Acq On : 14 Sep 2019 13:21
 Operator : SY/VA
 Sample : K4719-08RE
 Misc : 2.00G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 16 06:52:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	247288	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	387232	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	266361	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	67468	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	139753	61.19	ug/l	0.00
Spiked Amount			Recovery	=	122.38%	
35) Dibromofluoromethane	7.88	113	114430	54.46	ug/l	0.00
Spiked Amount			Recovery	=	108.92%	
50) Toluene-d8	10.32	98	428709	52.14	ug/l	0.00
Spiked Amount			Recovery	=	104.28%	
62) 4-Bromofluorobenzene	12.62	95	94174	31.85	ug/l	0.00
Spiked Amount			Recovery	=	63.70%	

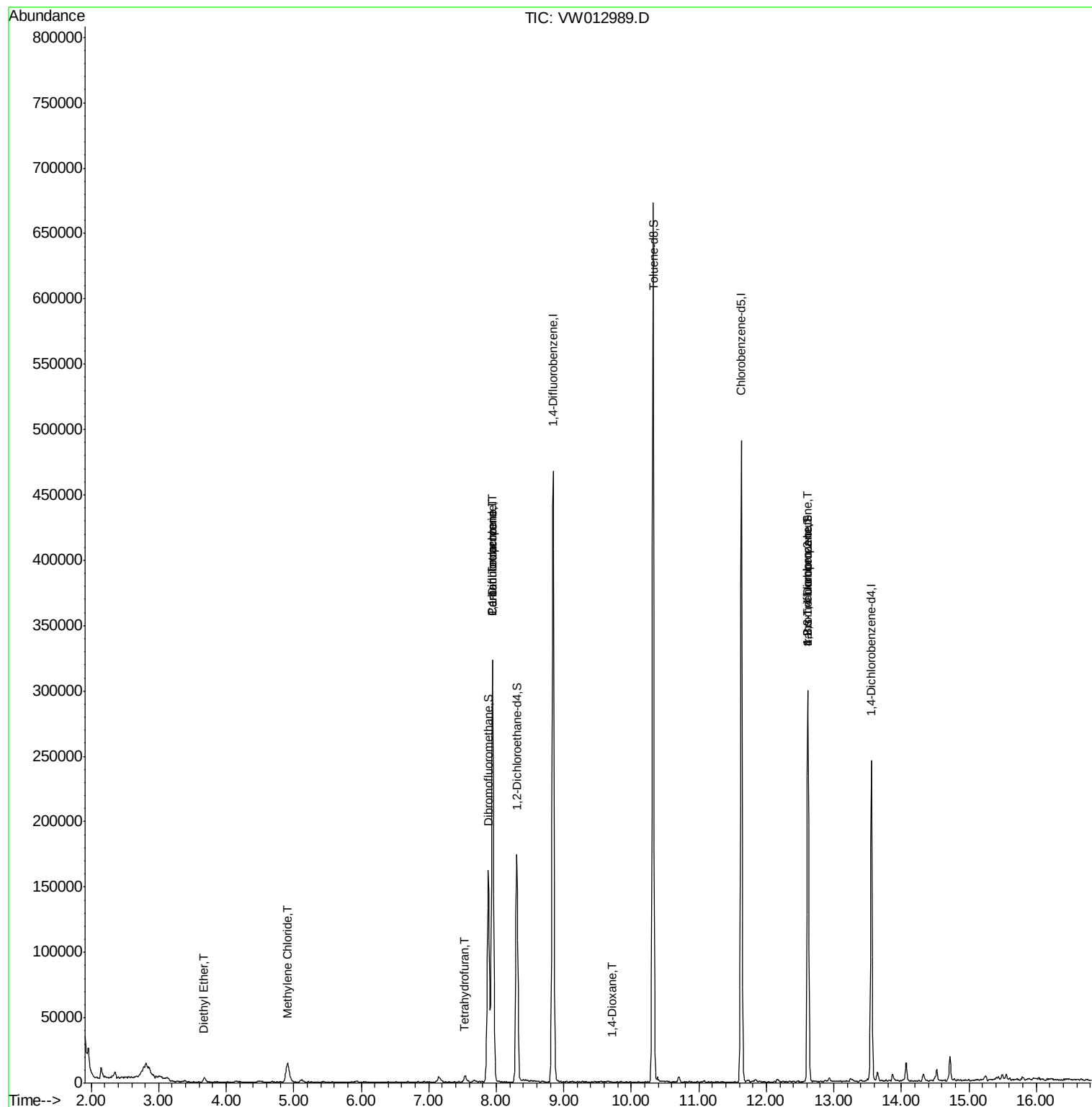
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	22	Below Cal	#	44
3) Chloromethane	2.20	50	292	Below Cal	#	41
8) Diethyl Ether	3.67	74	1513	1.565	ug/l	70
11) Tert butyl alcohol	5.12	59	452	Below Cal	#	72
13) Acrolein	3.79	56	29	Below Cal	#	1
16) Acetone	4.10	43	161	Below Cal	#	47
20) Methylene Chloride	4.91	84	11817	1.359	ug/l #	94
26) 2,2-Dichloropropane	7.14	77	253	Below Cal	#	55
29) Tetrahydrofuran	7.53	42	1826	4.413	ug/l #	29
31) Cyclohexane	7.94	56	5441	Below Cal	#	21
36) 1,1-Dichloropropene	7.95	75	18632	6.021	ug/l #	52
38) Carbon Tetrachloride	7.95	117	24281	7.657	ug/l #	14
49) 1,4-Dioxane	9.71	88	28	1.520	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	50039	84.673	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	50039	192.079	ug/l #	7

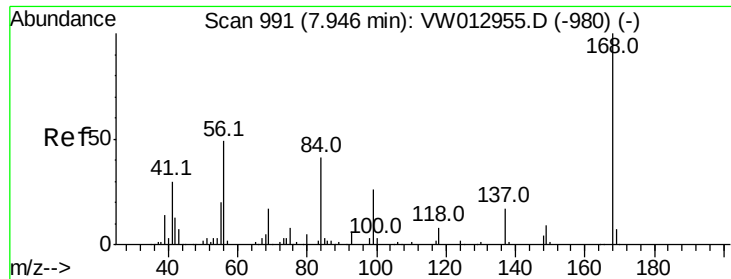
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012989.D

Acq: 14 Sep 2019 13:21

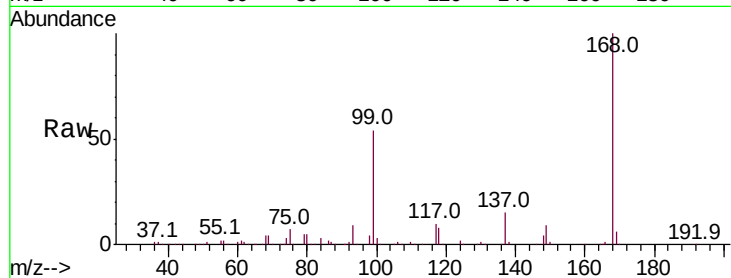
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 247288

Ion Ratio Lower Upper

168 100

99 53.9 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): VW012955.D (-980) (-)

Ion 98.90 (98.60 to 99.60): VW012955.D (-980) (-)

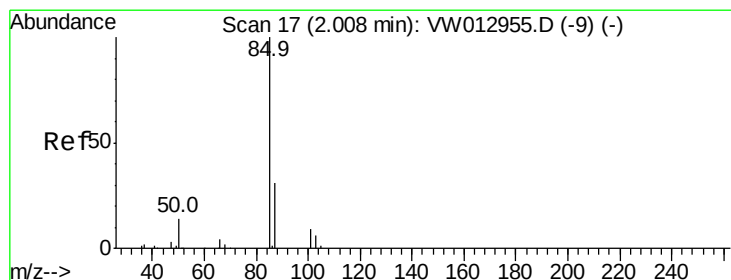
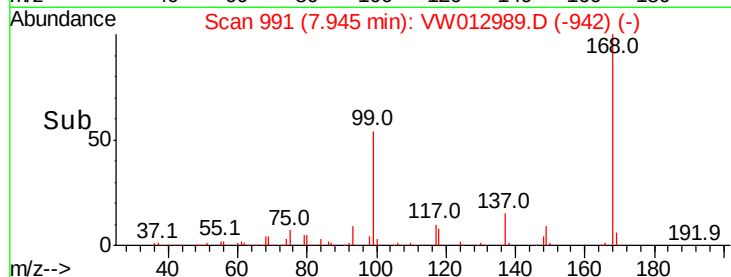
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW012989.D

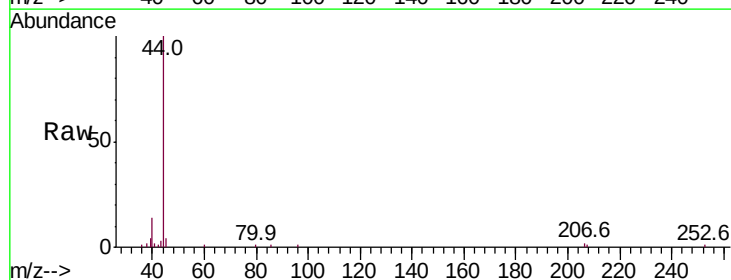
Acq: 14 Sep 2019 13:21

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW012955.D (-9) (-)

Ion 86.90 (86.60 to 87.60): VW012955.D (-9) (-)

2.01

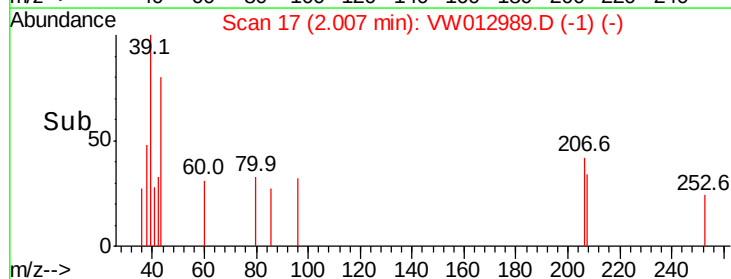
60

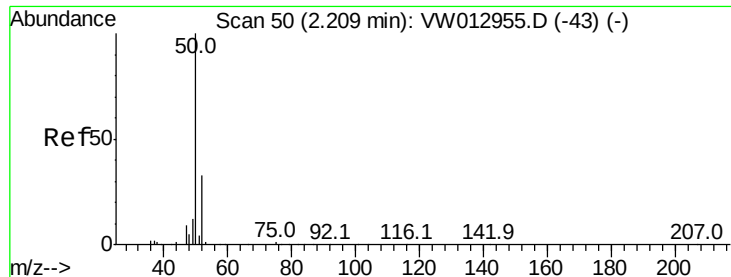
40

20

0

Time--> 1.99 2.00 2.01 2.02





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW012989.D

Acq: 14 Sep 2019 13:21

Instrument :

MSVOA_W

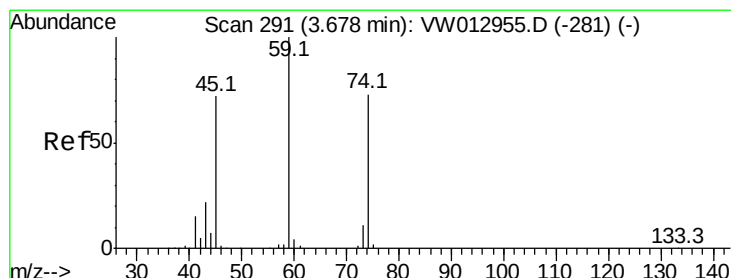
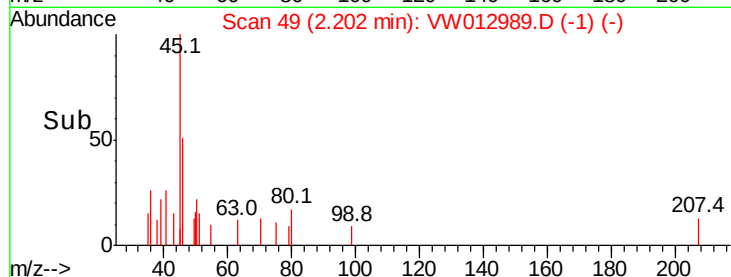
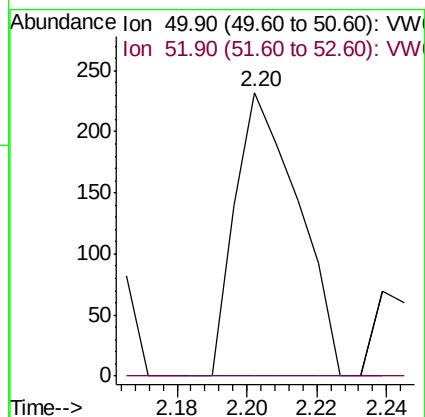
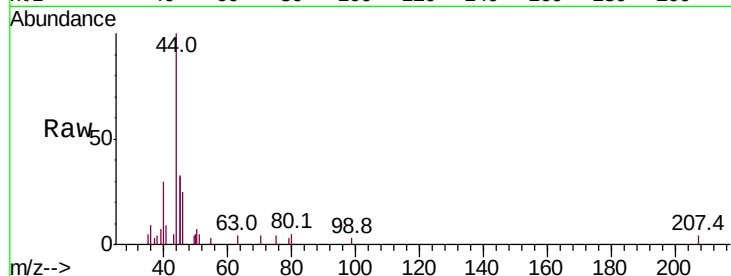
ClientSampled :

Tot Ion: 50 Resp: 292

Ion Ratio Lower Upper

50 100

52 0.0 26.6 39.8#



#8

Diethyl Ether

Concen: 1.565 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012989.D

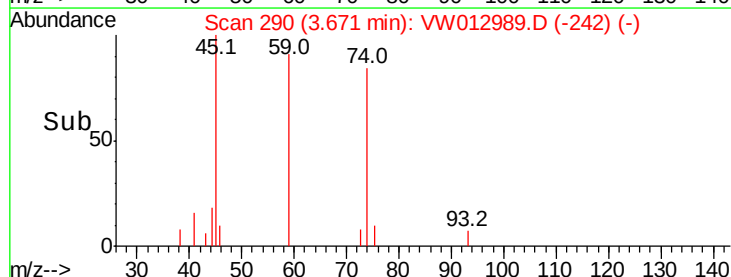
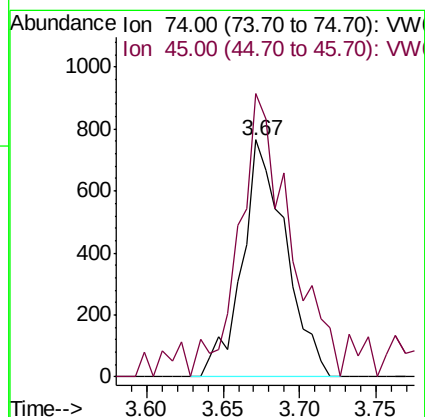
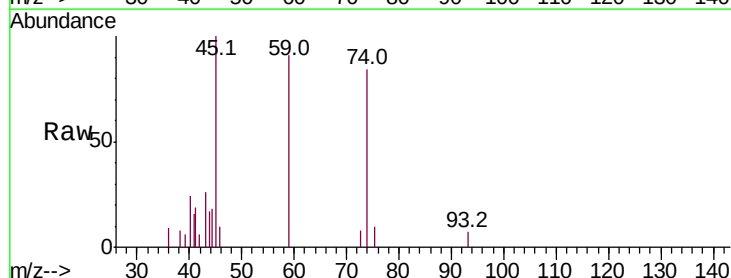
Acq: 14 Sep 2019 13:21

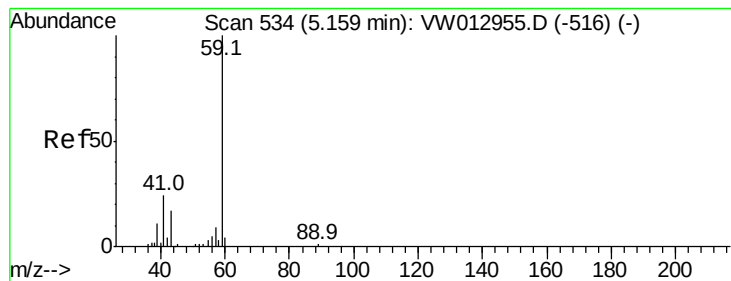
Tgt Ion: 74 Resp: 1513

Ion Ratio Lower Upper

74 100

45 138.5 53.8 161.4



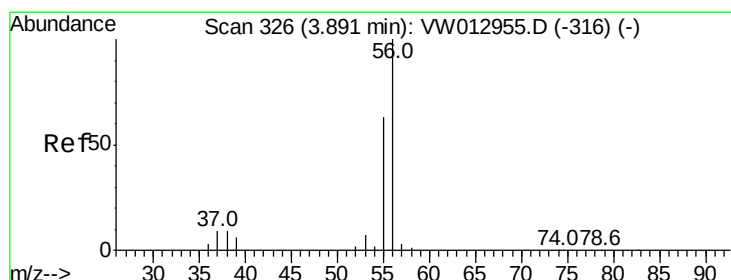
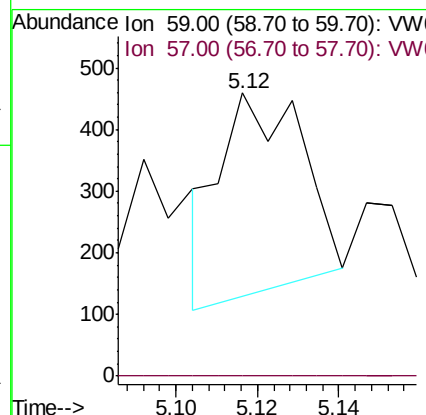
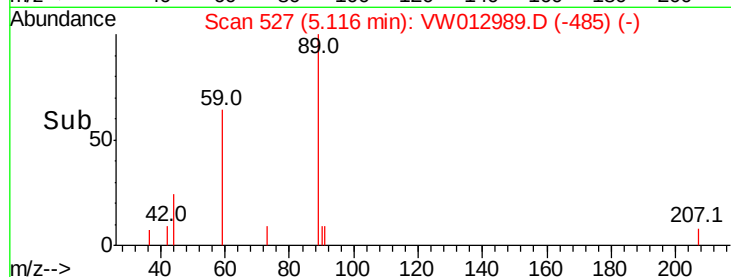
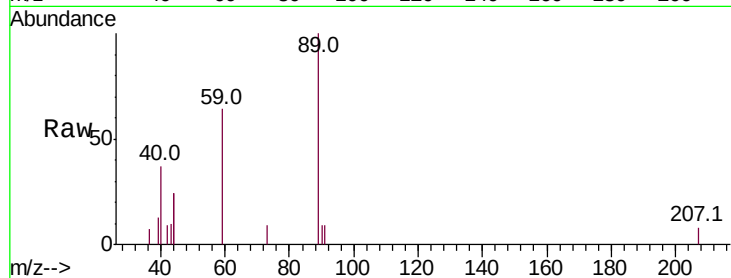


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.12 min Scan# 527
Delta R.T. -0.04 min
Lab File: VW012989.D
Acq: 14 Sep 2019 13:21

Instrument :
MSVOA_W
ClientSampled :

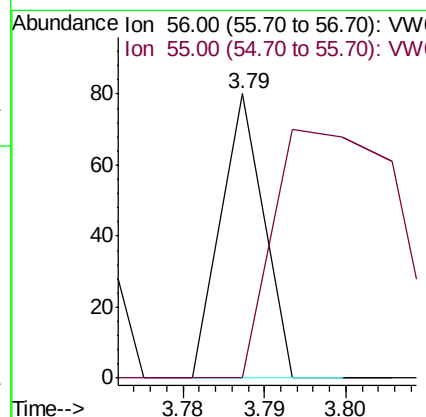
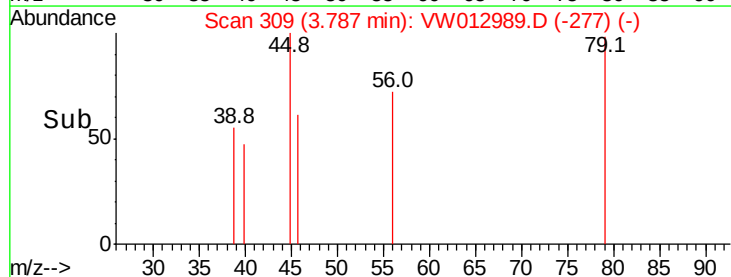
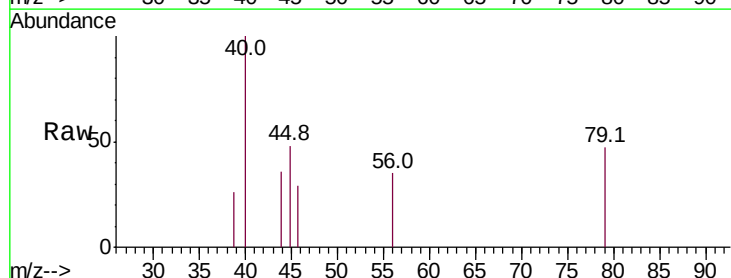
Tot Ion: 59 Resp: 452
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

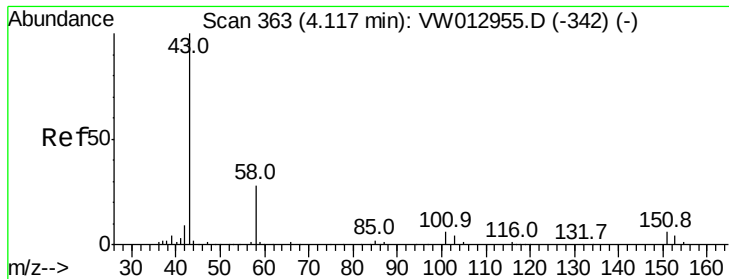


#13

Acrolein
Concen: Below Cal
RT: 3.79 min Scan# 309
Delta R.T. -0.10 min
Lab File: VW012989.D
Acq: 14 Sep 2019 13:21

Tgt Ion: 56 Resp: 29
Ion Ratio Lower Upper
56 100
55 251.7 55.8 83.8#

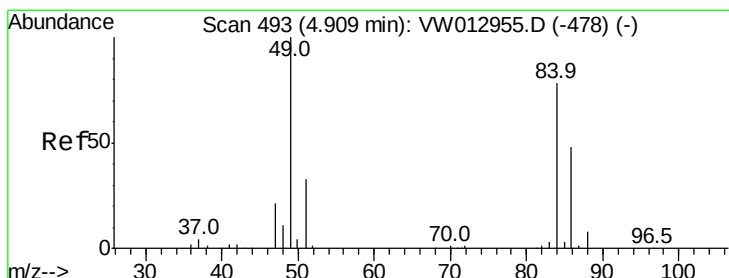
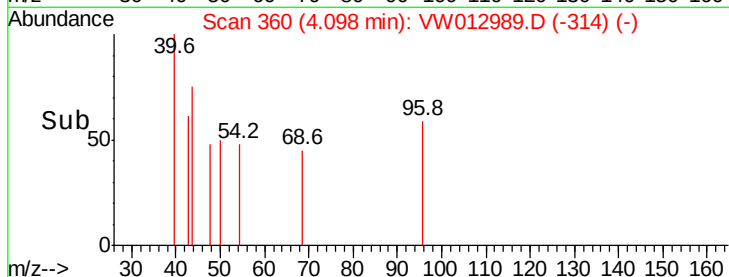
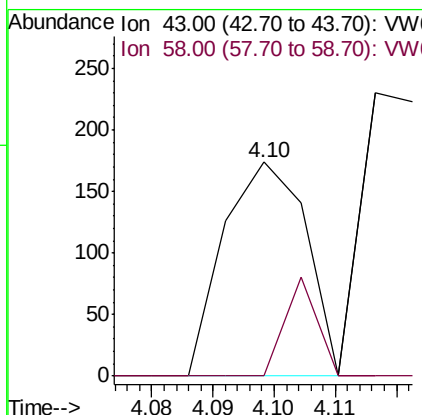
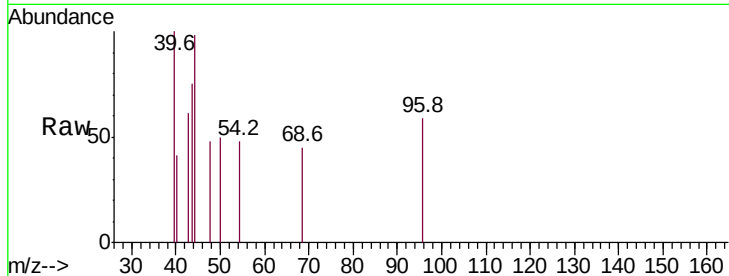




#16
Acetone
Concen: Below Cal
RT: 4.10 min Scan# 360
Delta R.T. -0.02 min
Lab File: VW012989.D
Acq: 14 Sep 2019 13:21

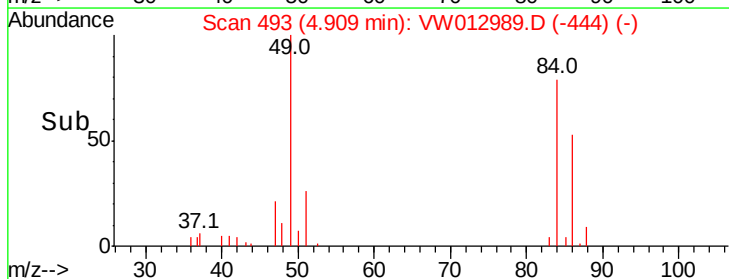
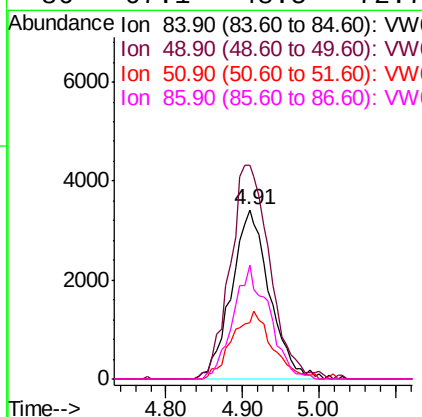
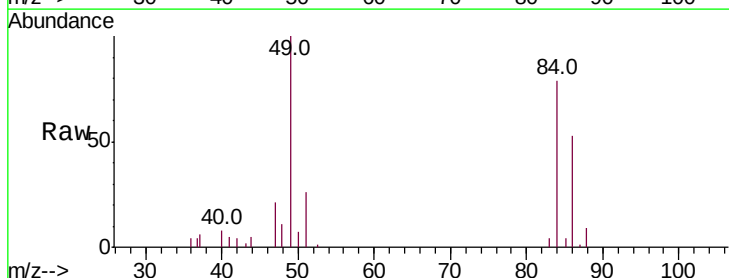
Instrument :
MSVOA_W
ClientSampleId :

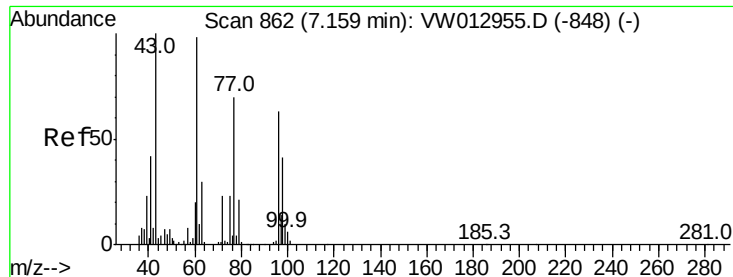
Tot Ion: 43 Resp: 161
Ion Ratio Lower Upper
43 100
58 0.0 22.3 33.5#



#20
Methylene Chloride
Concen: 1.359 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW012989.D
Acq: 14 Sep 2019 13:21

Tgt Ion: 84 Resp: 11817
Ion Ratio Lower Upper
84 100
49 125.8 102.0 153.0
51 33.2 34.0 51.0#
86 67.1 48.5 72.7





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW012989.D

Acq: 14 Sep 2019 13:21

Instrument :

MSVOA_W

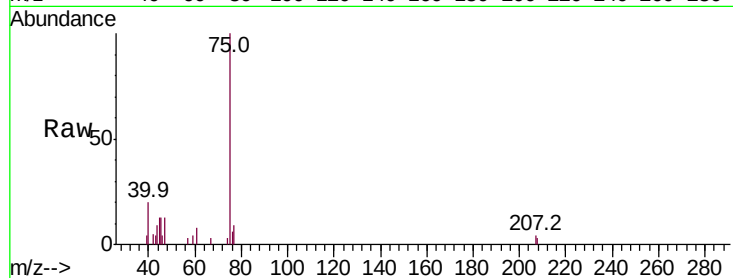
ClientSampled :

Tot Ion: 77 Resp: 253

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.14

200

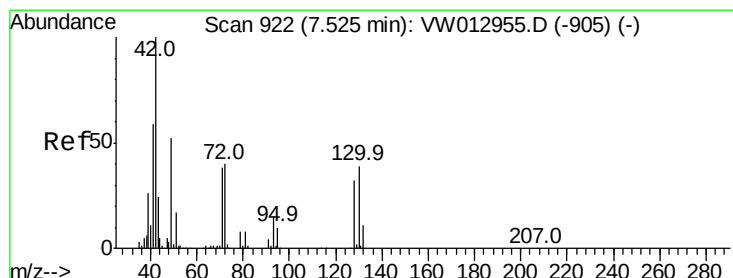
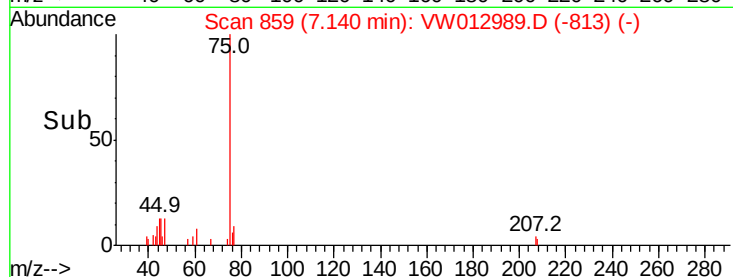
150

100

50

0

Time-->



#29

Tetrahydrofuran

Concen: 4.413 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW012989.D

Acq: 14 Sep 2019 13:21

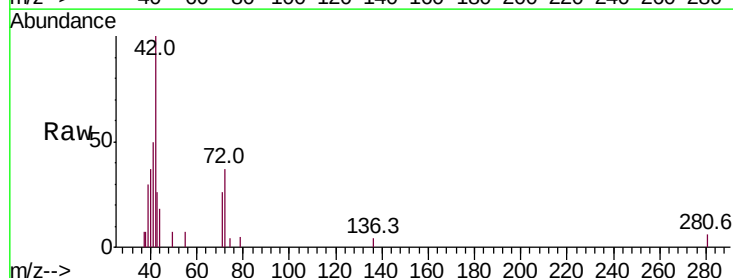
Tgt Ion: 42 Resp: 1826

Ion Ratio Lower Upper

42 100

72 86.0 31.4 47.0#

71 75.9 29.8 44.8#



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

2000

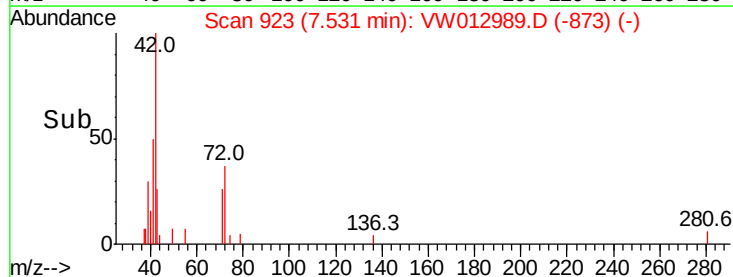
1500

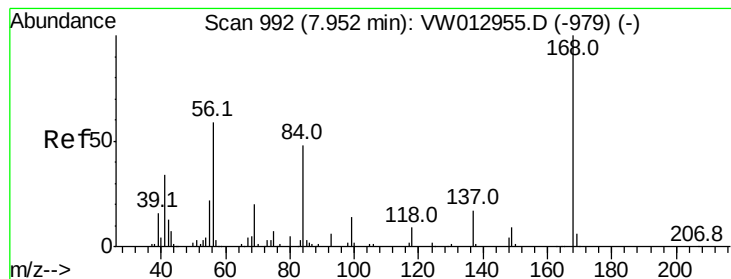
1000

500

0

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW012989.D

Acq: 14 Sep 2019 13:21

Instrument :

MSVOA_W

ClientSampled :

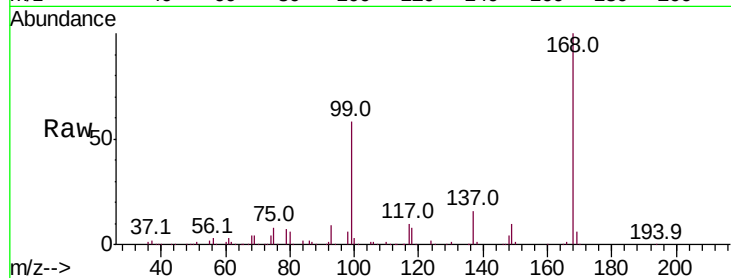
Tot Ion: 56 Resp: 5441

Ion Ratio Lower Upper

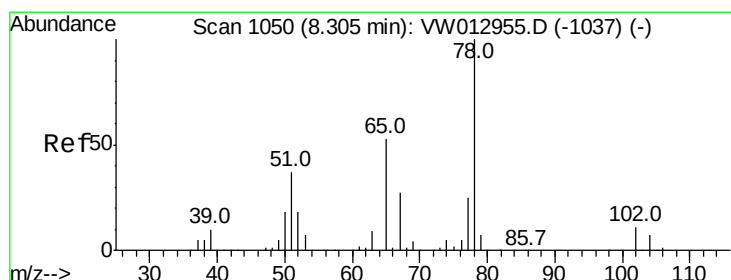
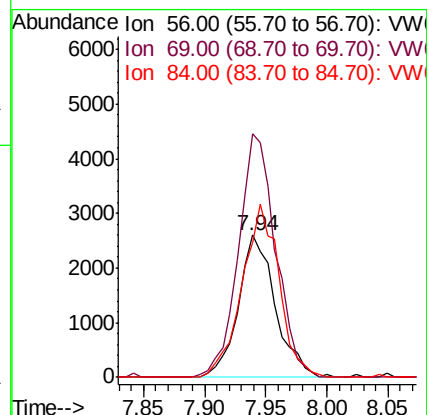
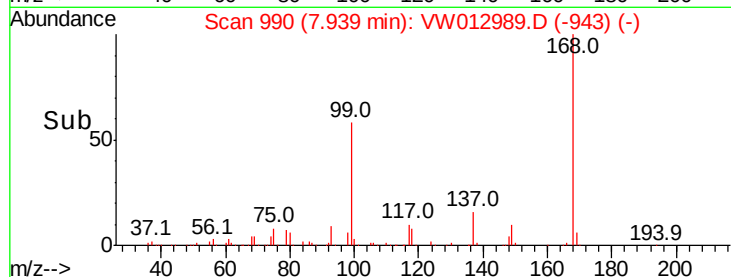
56 100

69 171.5 27.0 40.6#

84 94.8 66.2 99.2



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 61.191 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012989.D

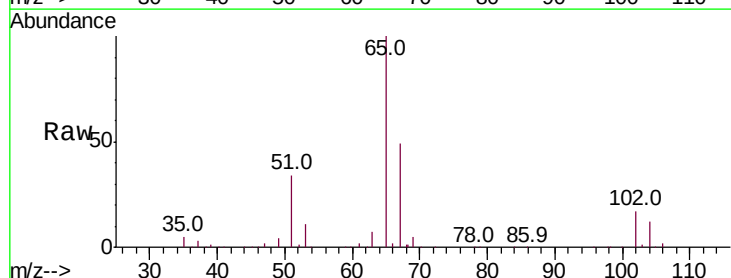
Acq: 14 Sep 2019 13:21

Tgt Ion: 65 Resp: 139753

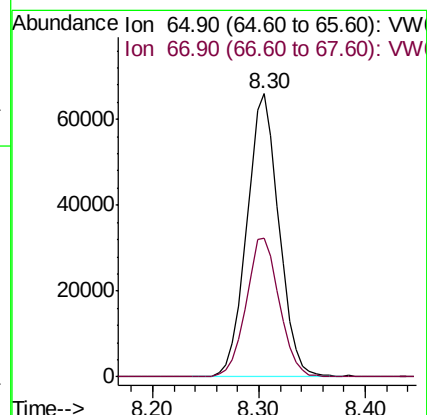
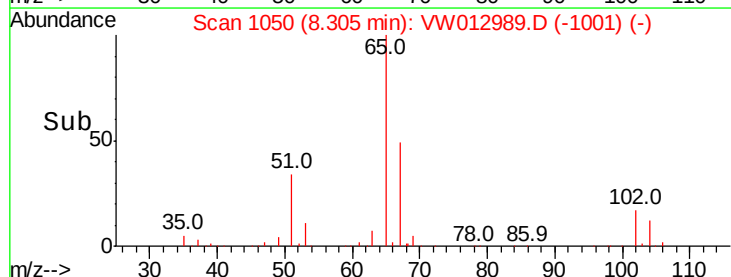
Ion Ratio Lower Upper

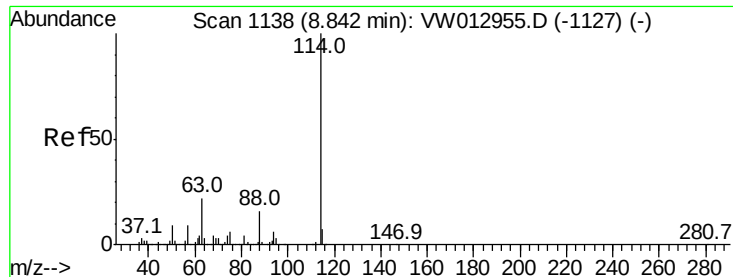
65 100

67 50.6 0.0 101.2



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: VW012989.D

Acq: 14 Sep 2019 13:21

Instrument :

MSVOA_W

ClientSampled :

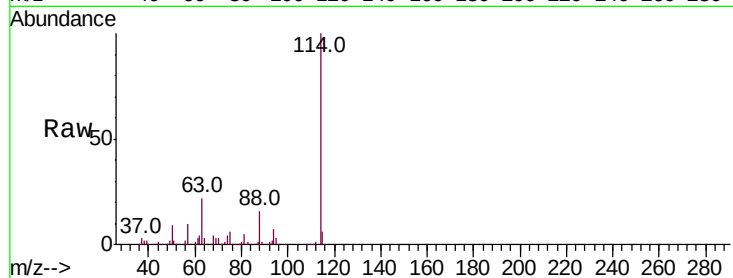
Tot Ion:114 Resp: 387232

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.4

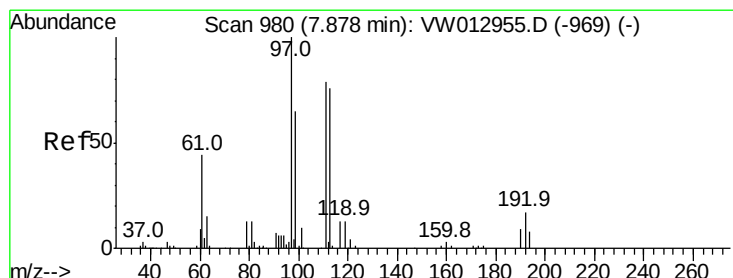
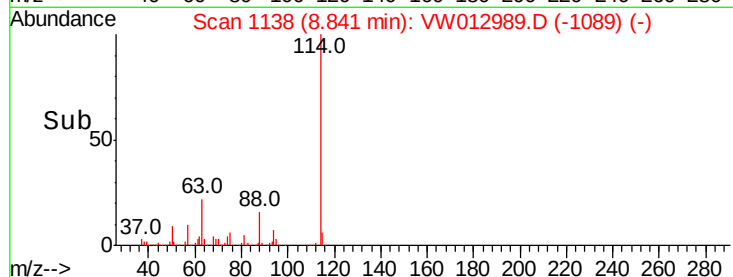
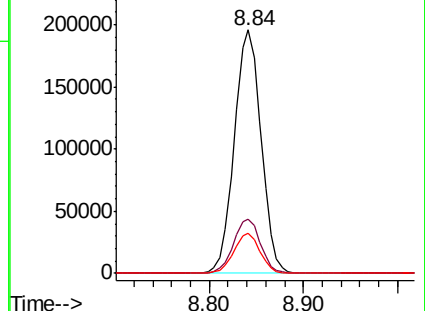
88 16.2 0.0 31.6



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



#35

Dibromofluoromethane

Concen: 54.460 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW012989.D

Acq: 14 Sep 2019 13:21

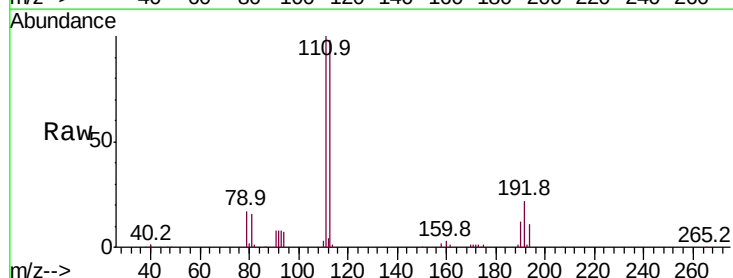
Tgt Ion:113 Resp: 114430

Ion Ratio Lower Upper

113 100

111 103.2 82.8 124.2

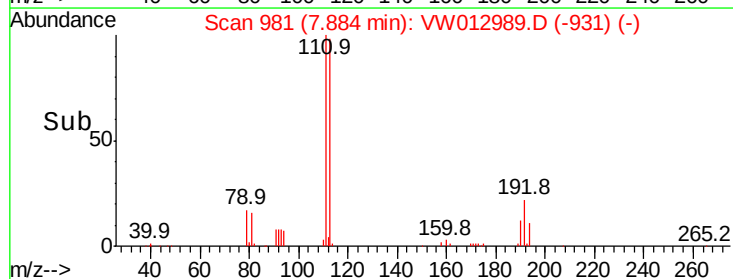
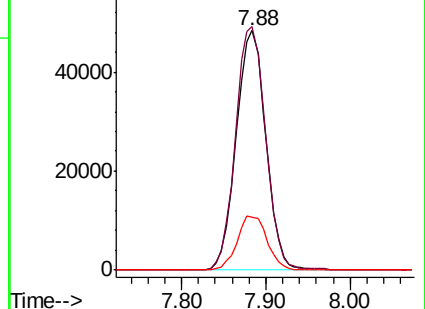
192 22.8 17.8 26.8

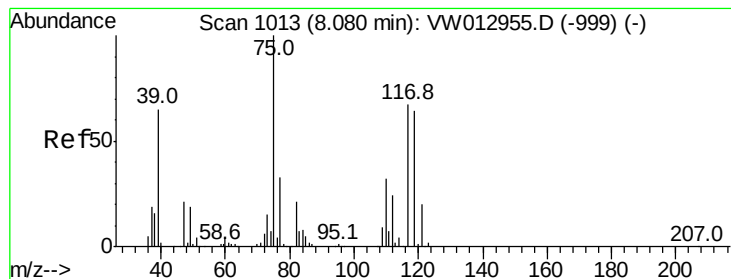


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.021 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012989.D

Acq: 14 Sep 2019 13:21

Instrument :

MSVOA_W

ClientSampleId :

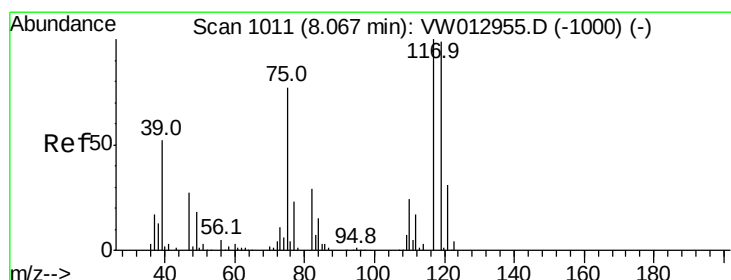
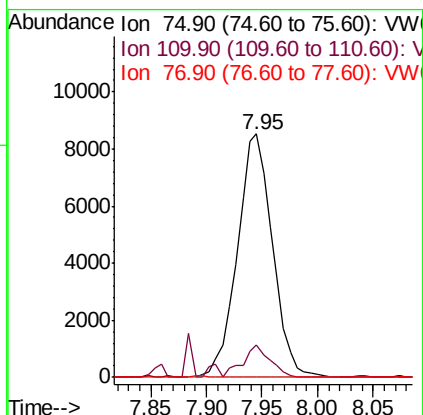
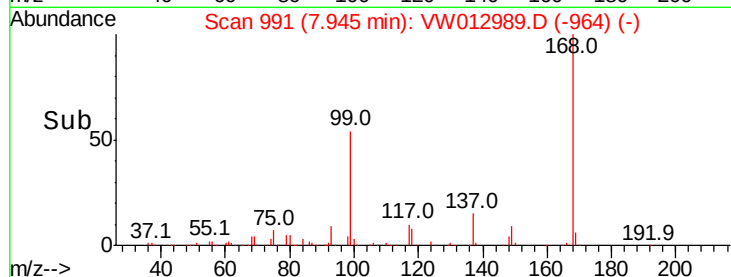
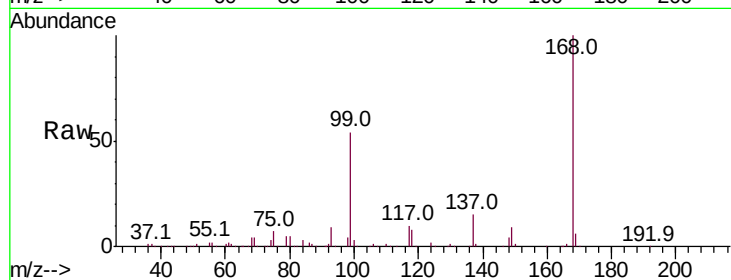
Tot Ion: 75 Resp: 18632

Ion Ratio Lower Upper

75 100

110 10.3 16.4 49.1#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 7.657 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012989.D

Acq: 14 Sep 2019 13:21

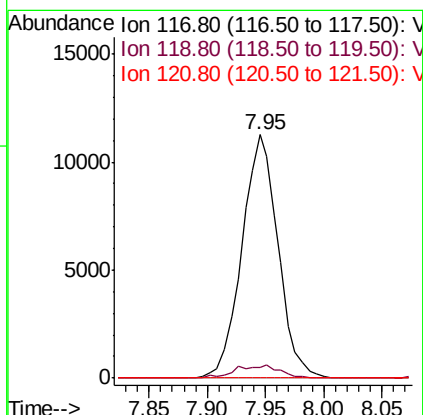
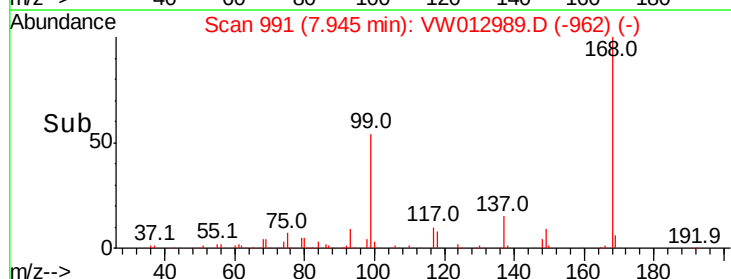
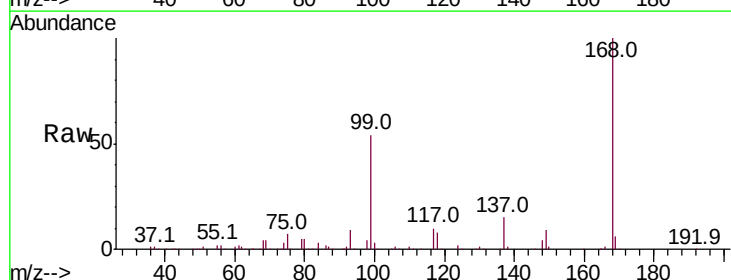
Tgt Ion: 117 Resp: 24281

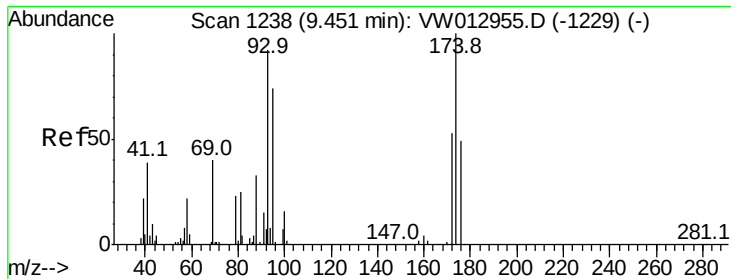
Ion Ratio Lower Upper

117 100

119 4.3 79.4 119.0#

121 0.0 24.6 36.8#

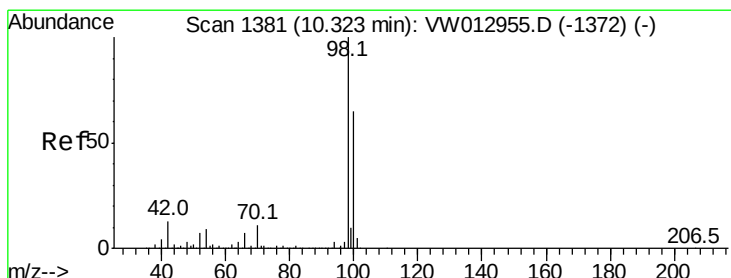
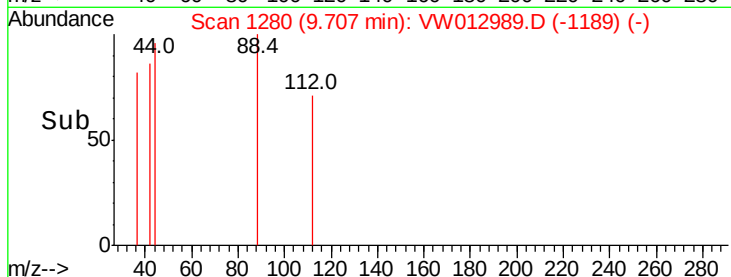
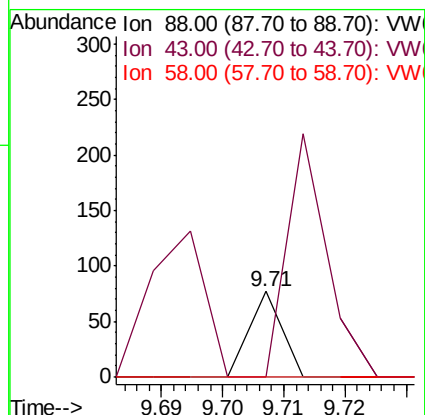
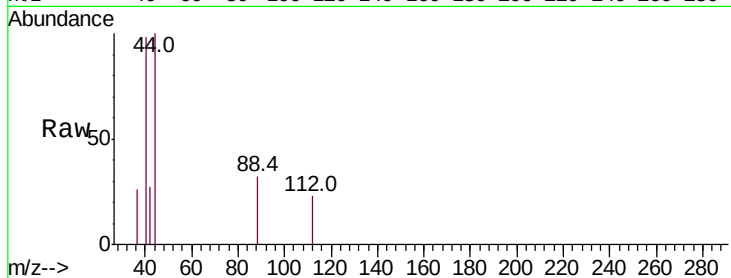




#49
 1,4-Dioxane
 Concen: 1.520 ug/l
 RT: 9.71 min Scan# 1280
 Delta R.T. 0.26 min
 Lab File: VW012989.D
 Acq: 14 Sep 2019 13:21

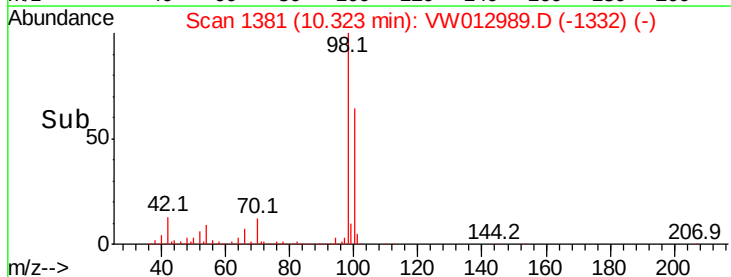
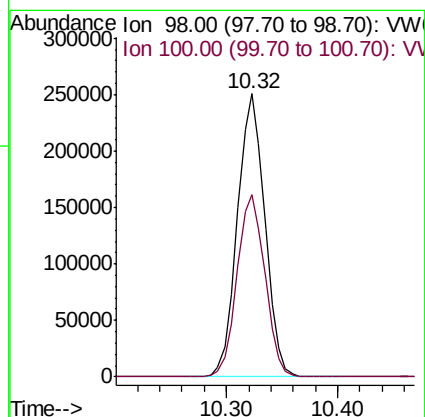
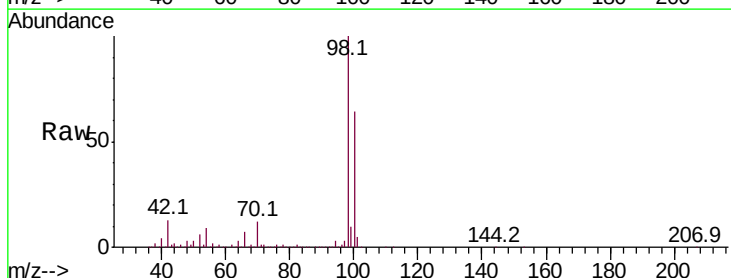
Instrument :
 MSVOA_W
 ClientSampleId :

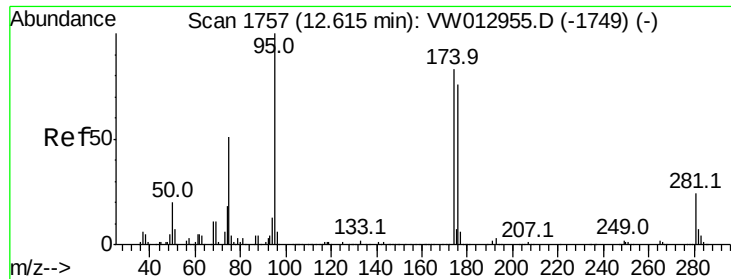
Tot Ion: 88 Resp: 28
 Ion Ratio Lower Upper
 88 100
 43 353.6 31.3 46.9#
 58 0.0 60.2 90.2#



#50
 Toluene-d8
 Concen: 52.141 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VW012989.D
 Acq: 14 Sep 2019 13:21

Tgt Ion: 98 Resp: 428709
 Ion Ratio Lower Upper
 98 100
 100 65.0 52.1 78.1

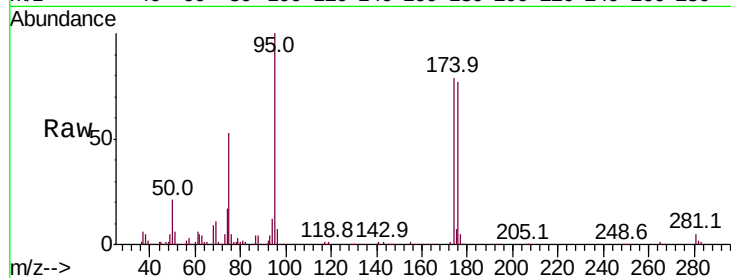




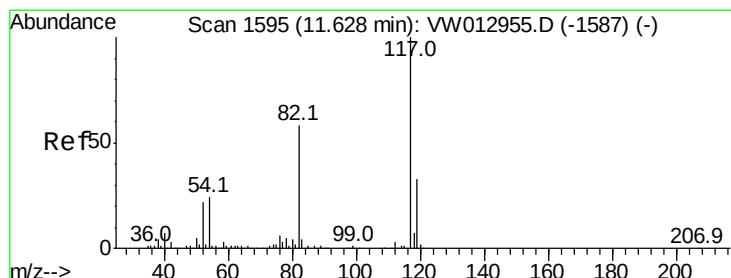
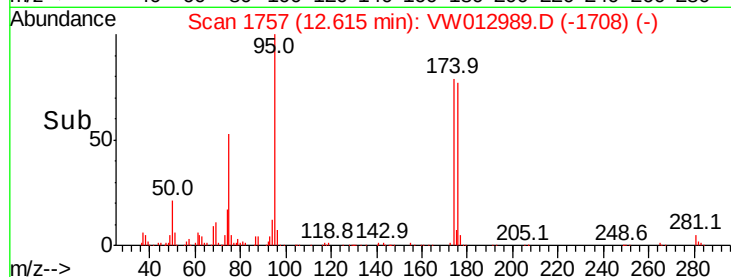
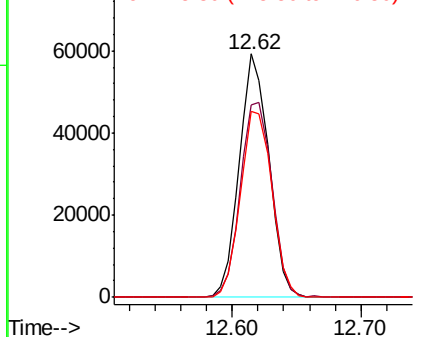
#62
4-Bromofluorobenzene
Concen: 31.853 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012989.D
Acq: 14 Sep 2019 13:21

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 95 Resp: 94174
Ion Ratio Lower Upper
95 100
174 85.6 0.0 170.4
176 81.7 0.0 164.6

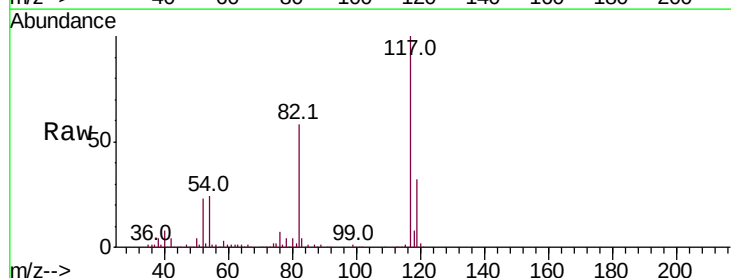


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

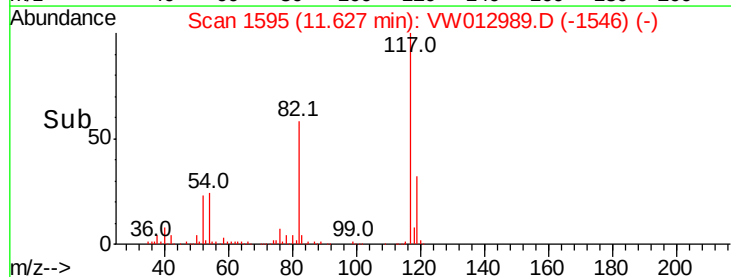
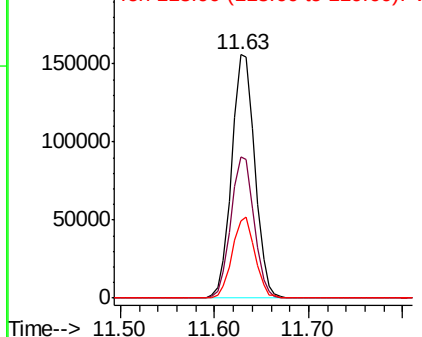


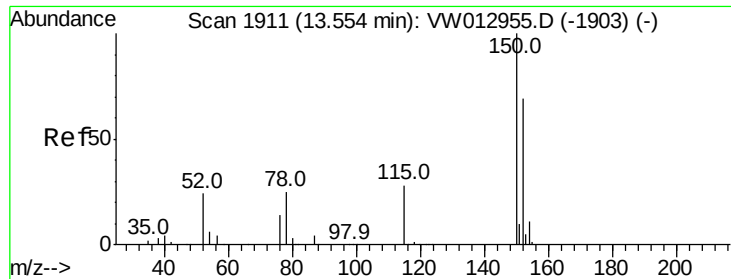
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW012989.D
Acq: 14 Sep 2019 13:21

Tgt Ion: 117 Resp: 266361
Ion Ratio Lower Upper
117 100
82 57.8 46.3 69.5
119 31.9 26.2 39.4



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



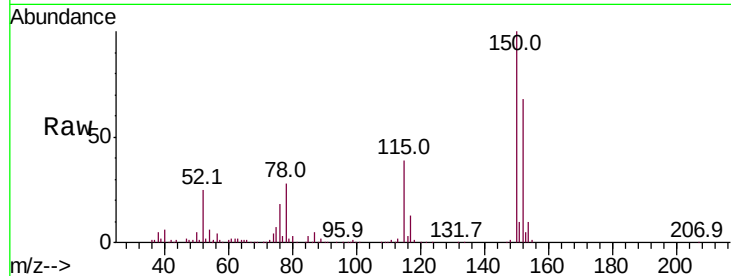


#72

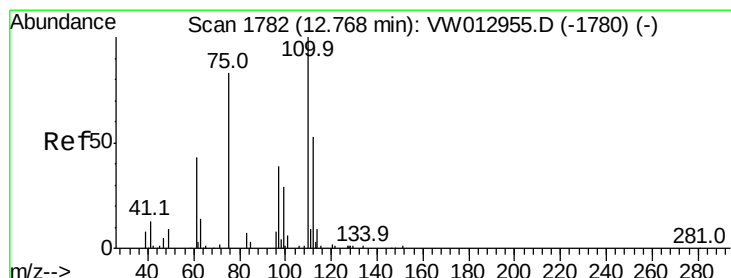
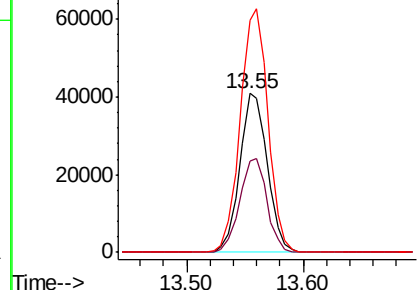
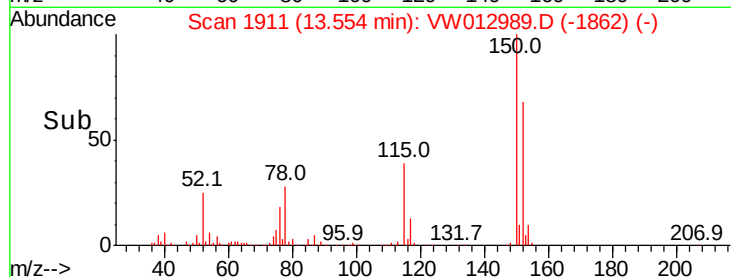
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.00 min
Lab File: VW012989.D
Acq: 14 Sep 2019 13:21

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:152 Resp: 67468
Ion Ratio Lower Upper
152 100
115 58.2 28.8 86.4
150 154.0 0.0 340.2



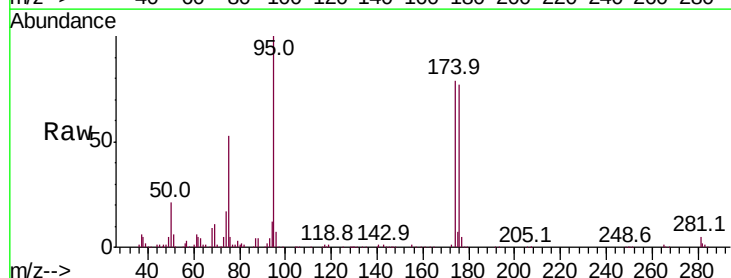
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



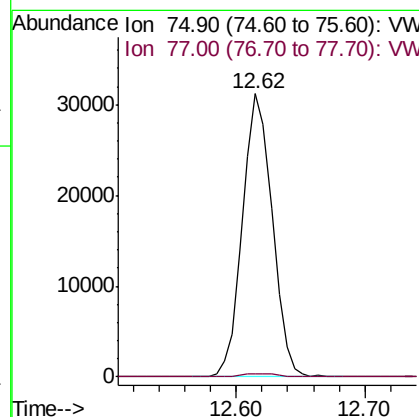
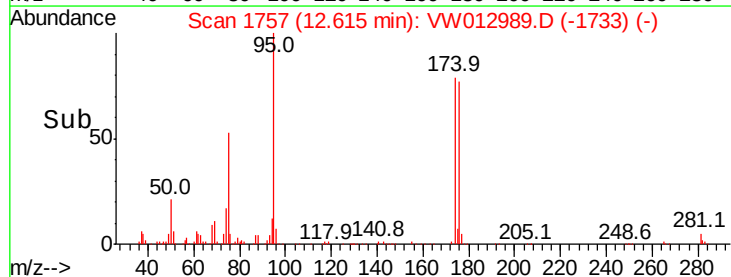
#76

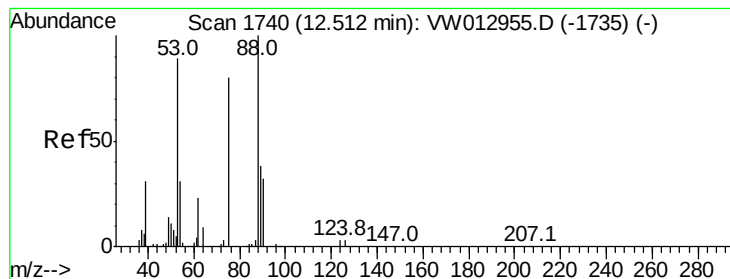
1,2,3-Trichloropropane
Concen: 84.673 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW012989.D
Acq: 14 Sep 2019 13:21

Tgt Ion: 75 Resp: 50039
Ion Ratio Lower Upper
75 100
77 1.5 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: 192.079 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012989.D

Acq: 14 Sep 2019 13:21

Instrument :

MSVOA_W

ClientSampleId :

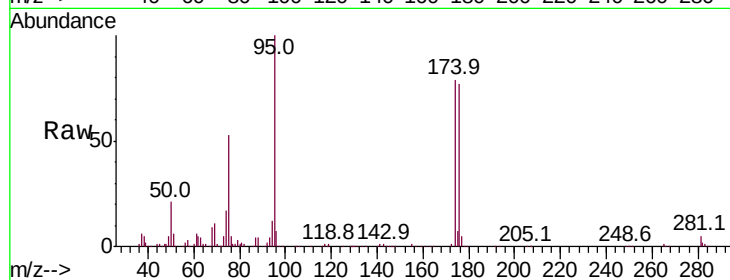
Tot Ion: 75 Resp: 50039

Ion Ratio Lower Upper

75 100

53 0.0 85.6 128.4#

89 0.0 37.2 55.8#



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

