

Data File : VW012975.D
Acq On : 14 Sep 2019 01:16
Operator : SY/VA
Sample : K4719-14
Misc : 4.67G/5ML/MSVOA_W/SOIL
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T4-3-(1.5)-HELLGATE

Quant Time: Sep 14 04:27:02 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	92170	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	130293	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	108076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	41783	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	49494	58.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.28%	
35) Dibromofluoromethane	7.88	113	40085	56.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.40%	
50) Toluene-d8	10.32	98	154896	55.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.98%	
62) 4-Bromofluorobenzene	12.62	95	44876	45.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.22%	

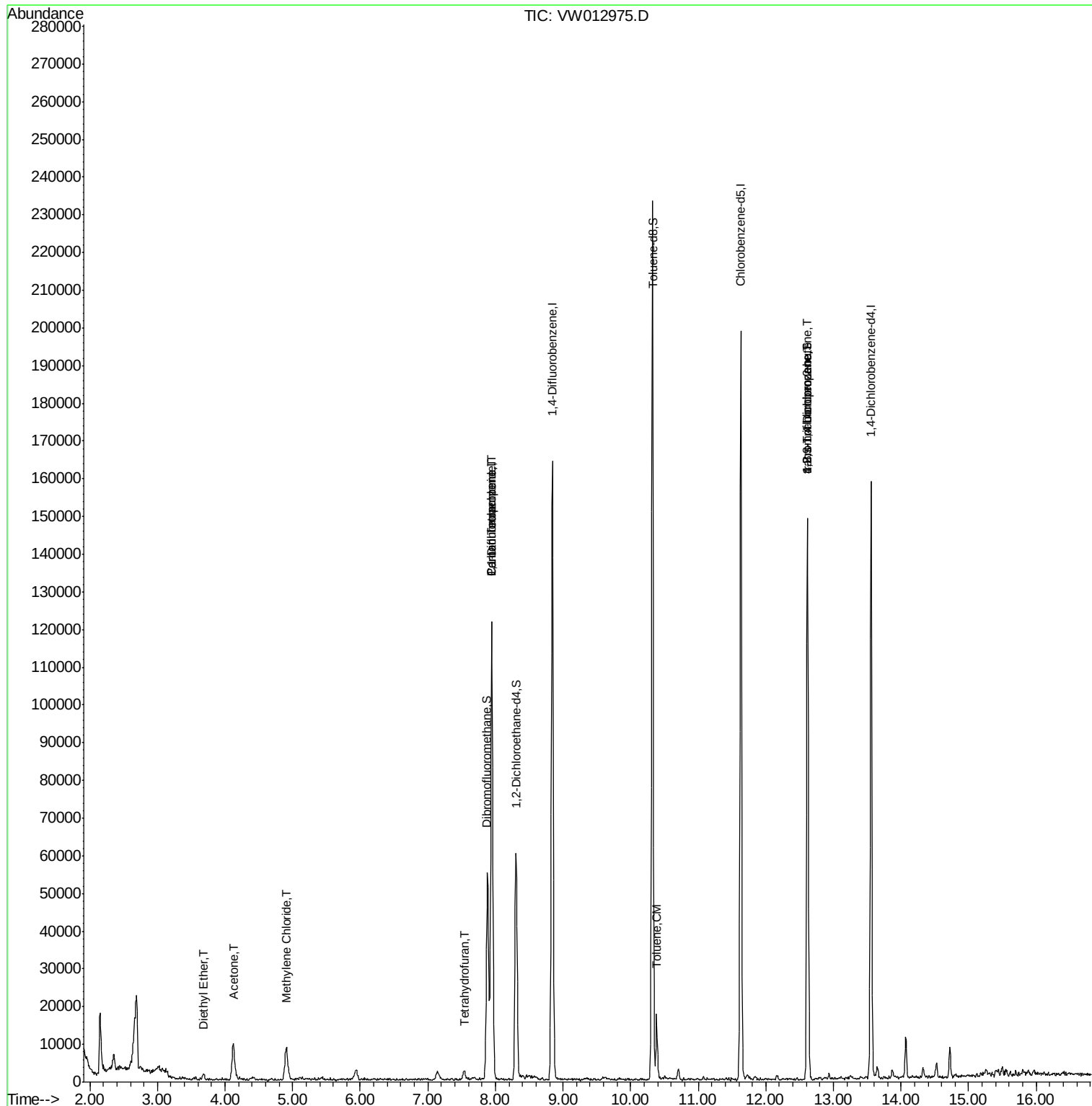
Target Compounds			Qvalue			
3) Chloromethane	2.20	50	262	Below Cal	#	51
8) Diethyl Ether	3.68	74	739	2.051	ug/l	75
11) Tert butyl alcohol	5.15	59	285	Below Cal	#	92
13) Acrolein	3.95	56	52	Below Cal	#	15
16) Acetone	4.12	43	17556	81.901	ug/l	99
20) Methylene Chloride	4.91	84	5493	3.125	ug/l #	85
26) 2,2-Dichloropropane	7.17	77	77	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	1998	12.955	ug/l	93
31) Cyclohexane	7.95	56	2256	Below Cal	#	1
36) 1,1-Dichloropropene	7.94	75	7078	6.798	ug/l #	52
38) Carbon Tetrachloride	7.94	117	8322	7.800	ug/l #	16
52) Toluene	10.38	92	6739	3.649	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	23526	64.281	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	23526	145.821	ug/l #	7

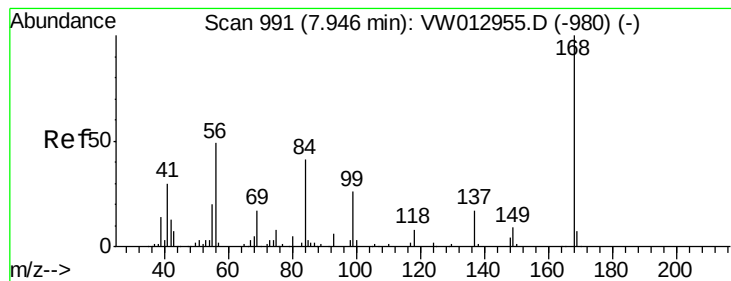
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

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Instrument :

MSVOA_W

ClientSampleId :

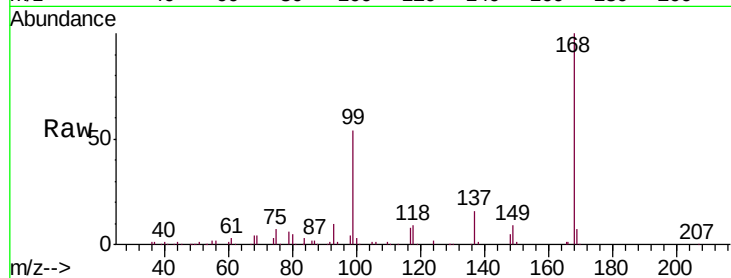
T4-3-(1.5)-HELLGATE

Tgt Ion:168 Resp: 92170

Ion Ratio Lower Upper

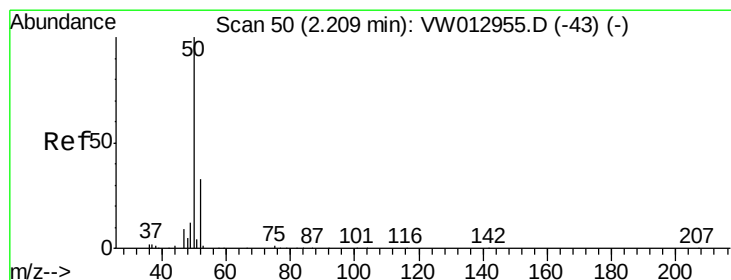
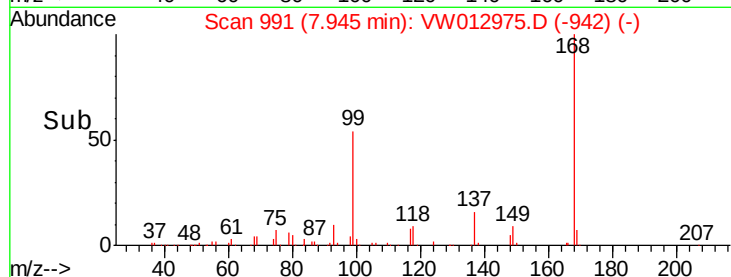
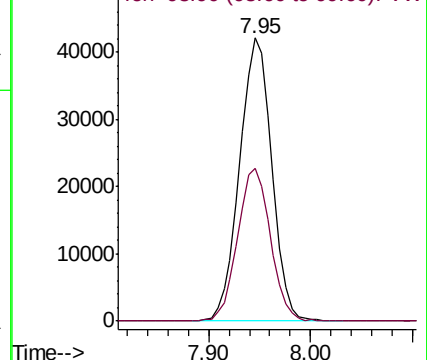
168 100

99 54.1 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW012975.D

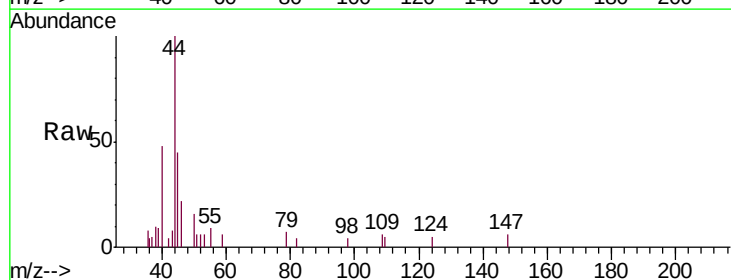
Acq: 14 Sep 2019 01:16

Tgt Ion: 50 Resp: 262

Ion Ratio Lower Upper

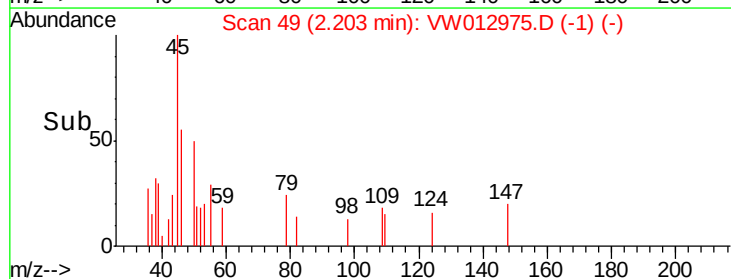
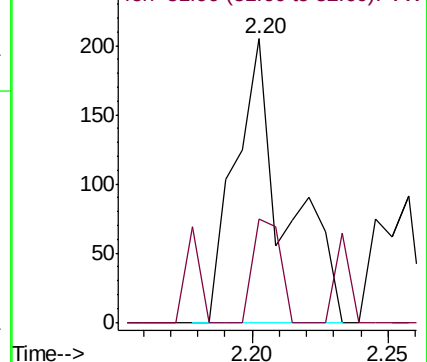
50 100

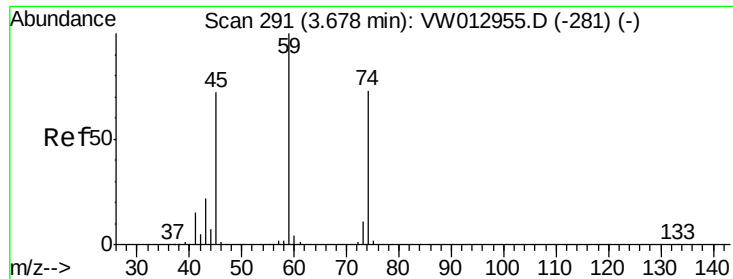
52 5.4 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#8

Diethyl Ether

Concen: 2.051 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

Instrument :

MSVOA_W

ClientSampleId :

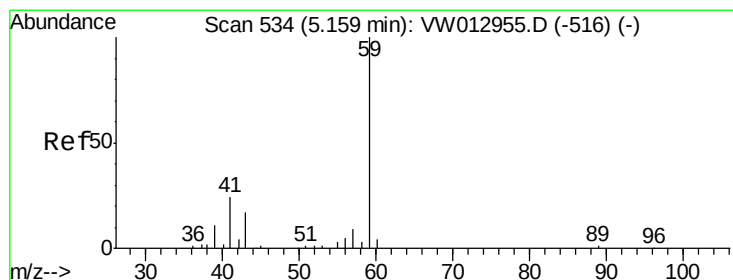
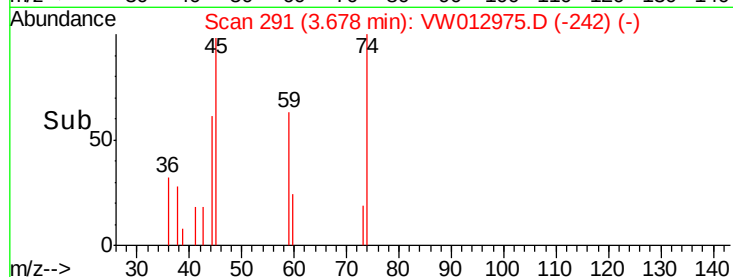
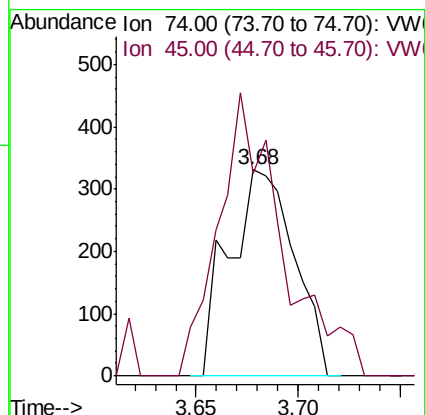
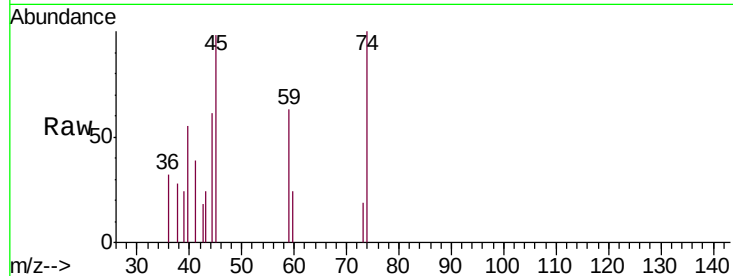
T4-3-(1.5)-HELLGATE

Tgt Ion: 74 Resp: 739

Ion Ratio Lower Upper

74 100

45 134.1 53.8 161.4



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.15 min Scan# 532

Delta R.T. -0.01 min

Lab File: VW012975.D

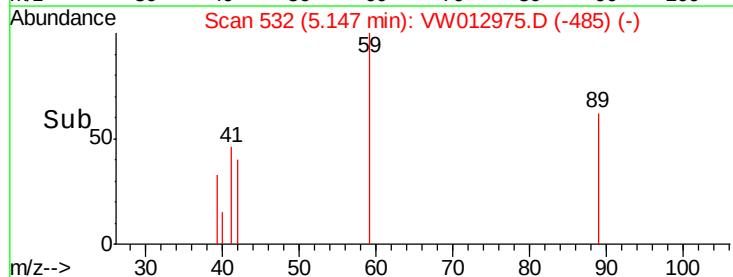
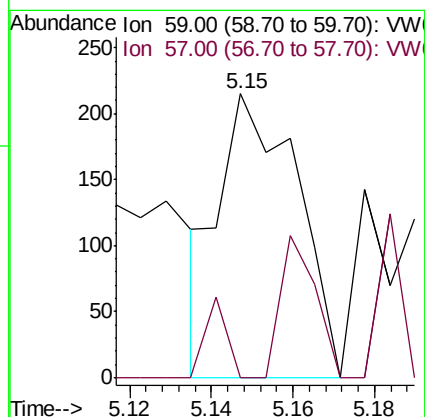
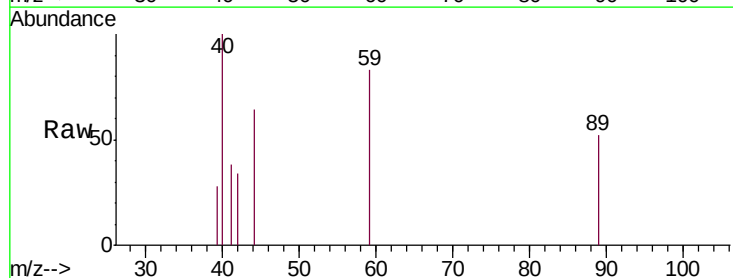
Acq: 14 Sep 2019 01:16

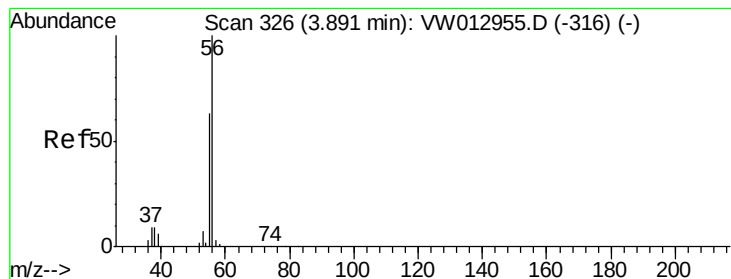
Tgt Ion: 59 Resp: 285

Ion Ratio Lower Upper

59 100

57 7.7 8.5 12.7#





#13

Acrolein

Concen: Below Cal

RT: 3.95 min Scan# 336

Delta R.T. 0.06 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

Instrument :

MSVOA_W

ClientSampleId :

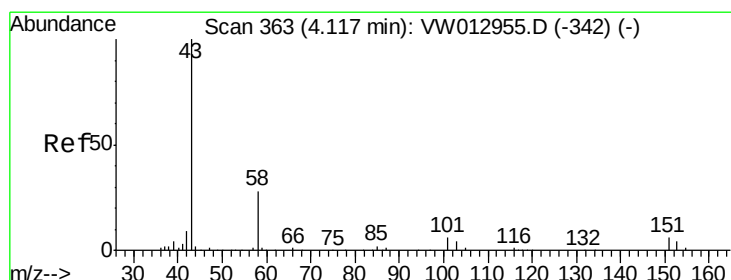
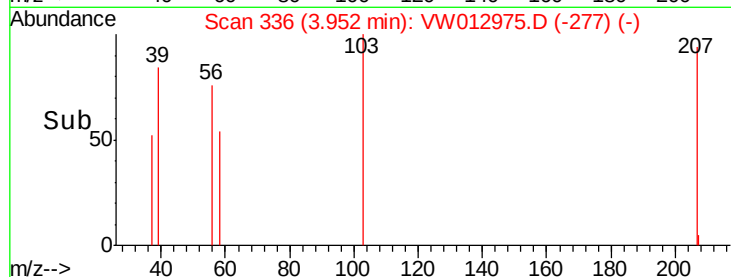
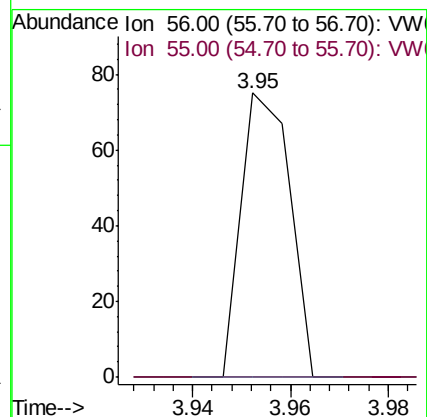
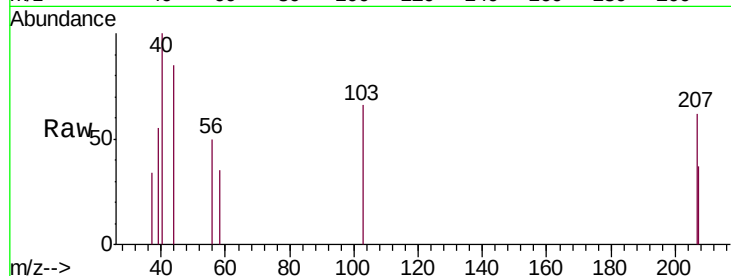
T4-3-(1.5)-HELLGATE

Tgt Ion: 56 Resp: 52

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: 81.901 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW012975.D

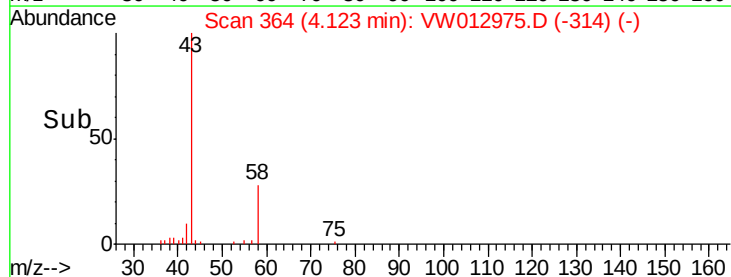
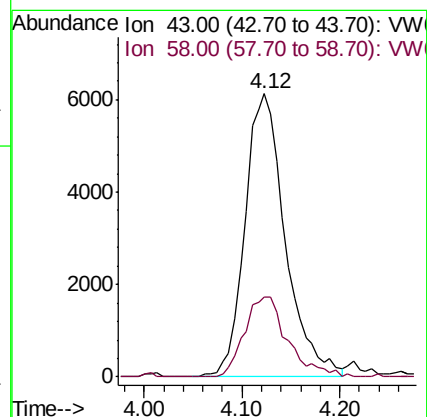
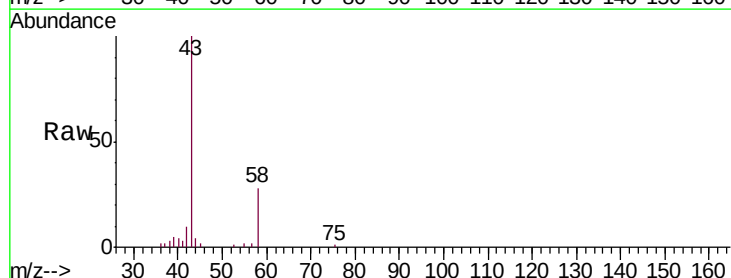
Acq: 14 Sep 2019 01:16

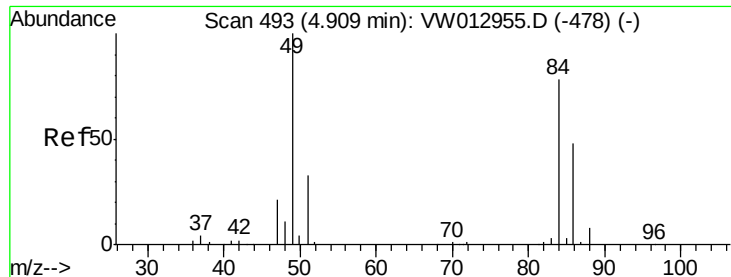
Tgt Ion: 43 Resp: 17556

Ion Ratio Lower Upper

43 100

58 28.3 22.3 33.5

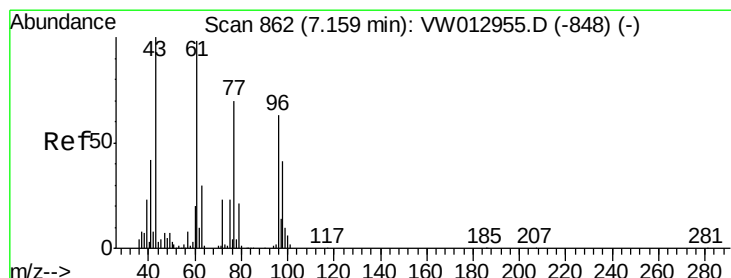
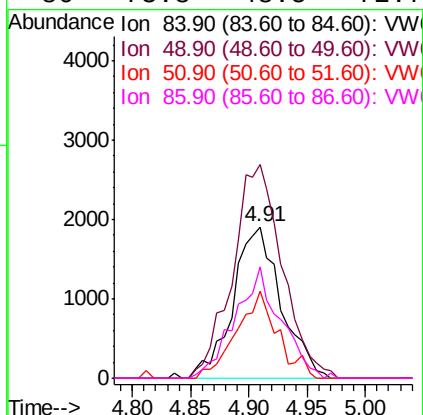
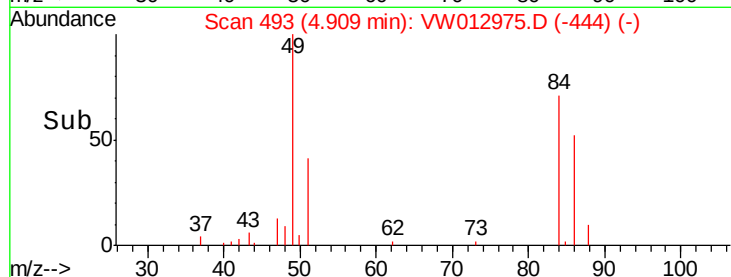
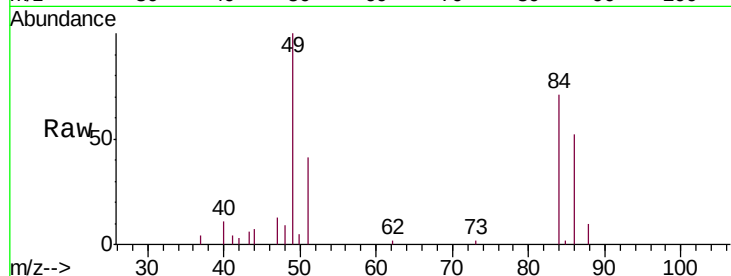




#20
Methylene Chloride
Concen: 3.125 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW012975.D
Acq: 14 Sep 2019 01:16

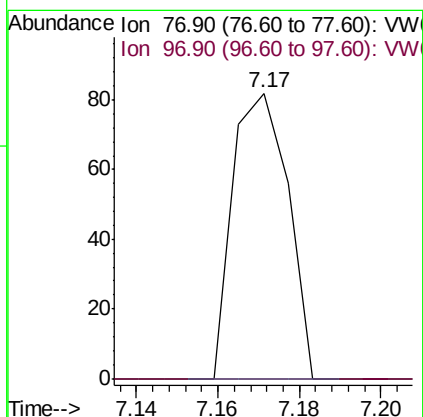
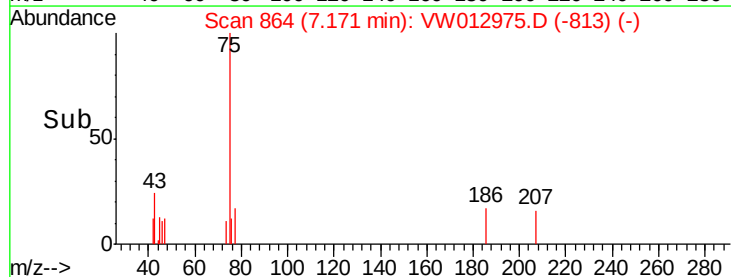
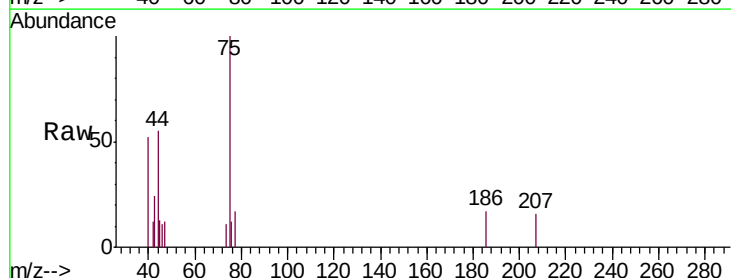
Instrument :
MSVOA_W
ClientSampleId :
T4-3-(1.5)-HELLGATE

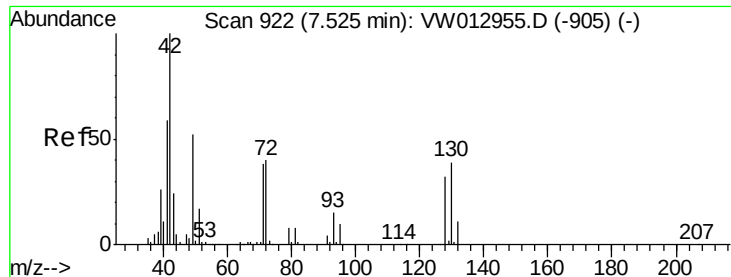
Tgt Ion: 84 Resp: 5493
Ion Ratio Lower Upper
84 100
49 140.8 102.0 153.0
51 57.2 34.0 51.0#
86 73.8 48.5 72.7#



#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW012975.D
Acq: 14 Sep 2019 01:16

Tgt Ion: 77 Resp: 77
Ion Ratio Lower Upper
77 100
97 0.0 10.7 32.1#

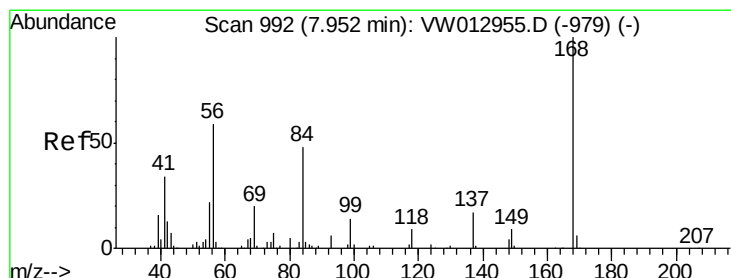
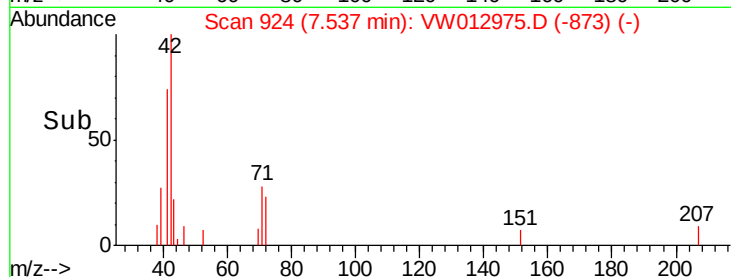
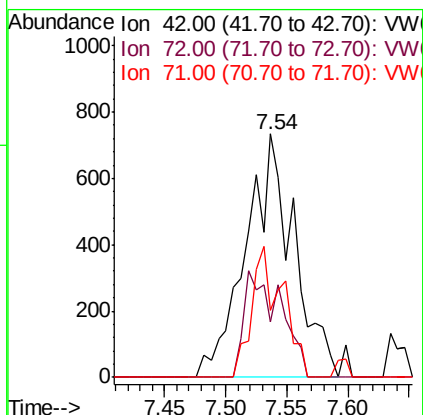
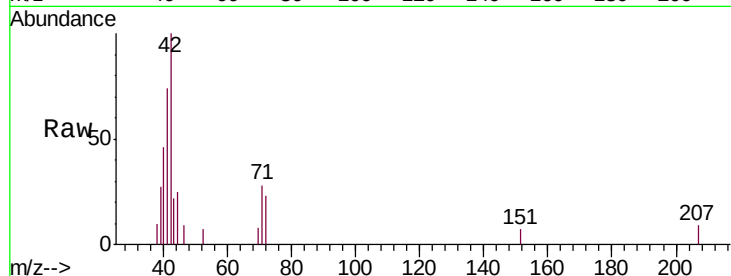




#29
Tetrahydrofuran
Concen: 12.955 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012975.D
Acq: 14 Sep 2019 01:16

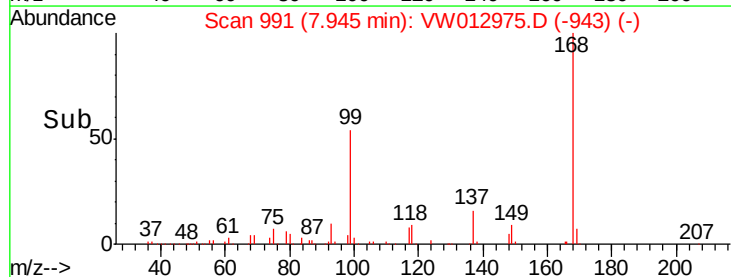
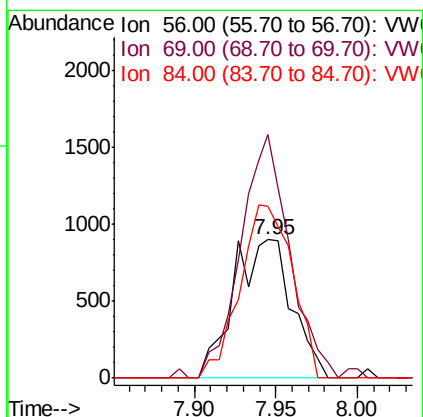
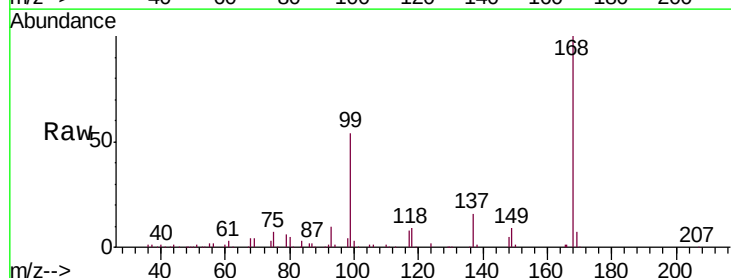
Instrument :
MSVOA_W
ClientSampleId :
T4-3-(1.5)-HELLGATE

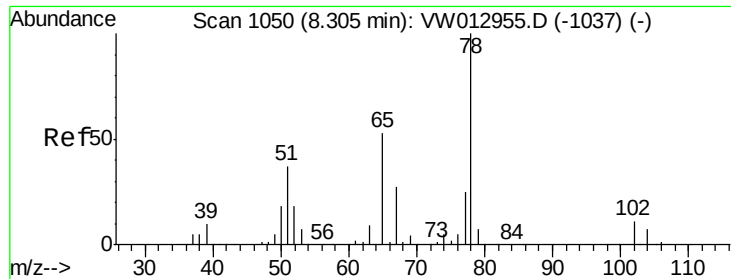
Tgt Ion: 42 Resp: 1998
Ion Ratio Lower Upper
42 100
72 33.3 31.4 47.0
71 34.6 29.8 44.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012975.D
Acq: 14 Sep 2019 01:16

Tgt Ion: 56 Resp: 2256
Ion Ratio Lower Upper
56 100
69 176.4 27.0 40.6#
84 124.2 66.2 99.2#





#33

1,2-Dichloroethane-d4

Concen: 58.142 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

Instrument :

MSVOA_W

ClientSampleId :

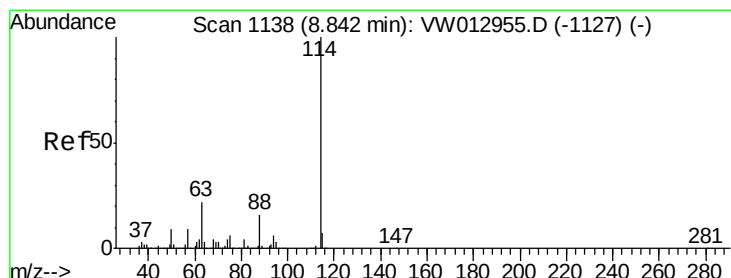
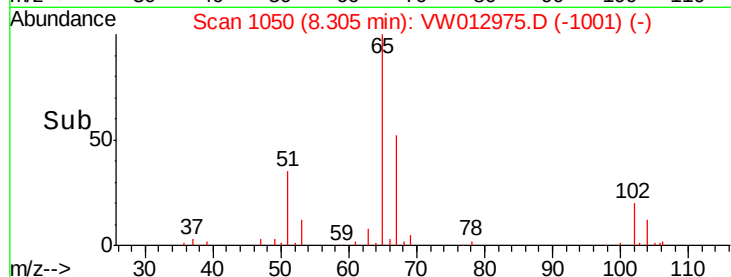
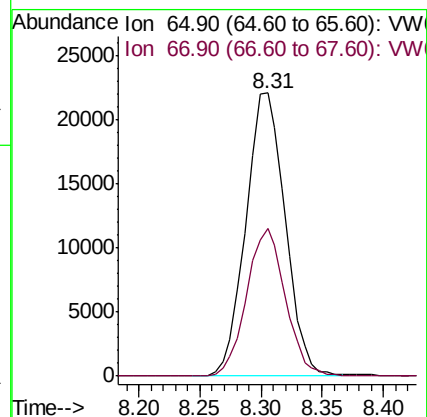
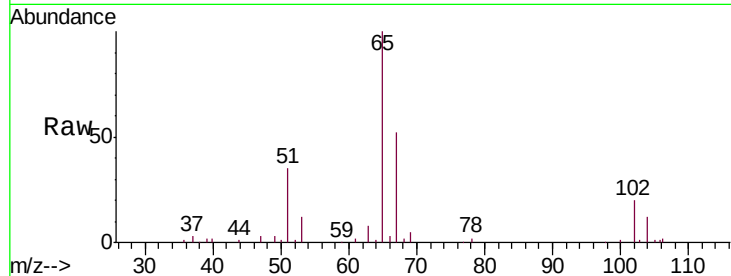
T4-3-(1.5)-HELLGATE

Tgt Ion: 65 Resp: 49494

Ion Ratio Lower Upper

65 100

67 51.2 0.0 101.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

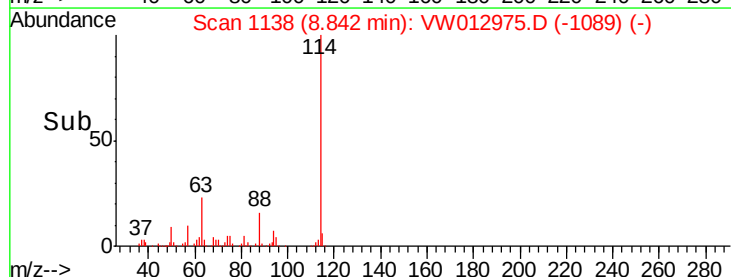
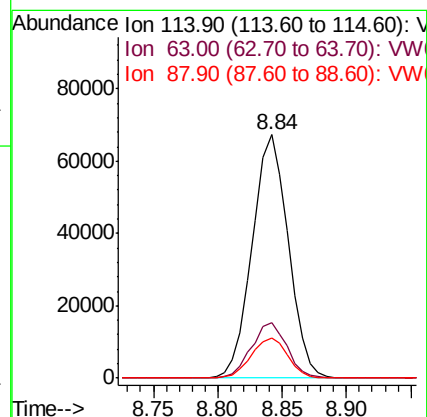
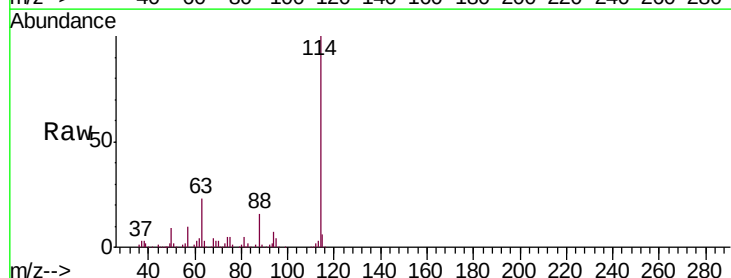
Tgt Ion: 114 Resp: 130293

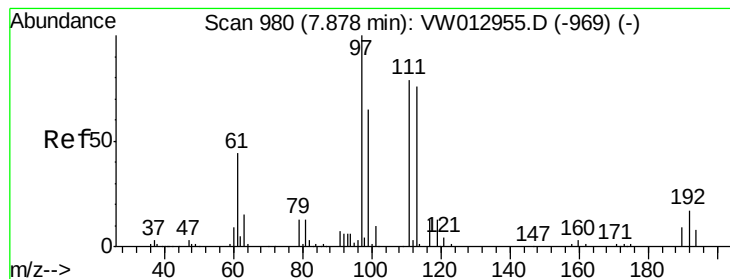
Ion Ratio Lower Upper

114 100

63 22.8 0.0 43.4

88 16.4 0.0 31.6





#35

Dibromofluoromethane

Concen: 56.699 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

Instrument :

MSVOA_W

ClientSampleId :

T4-3-(1.5)-HELLGATE

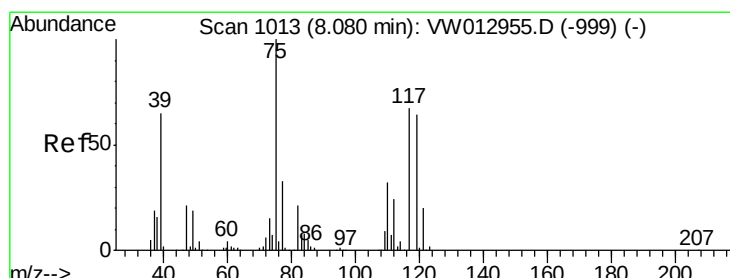
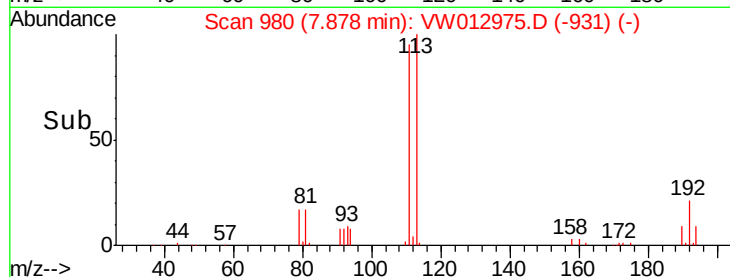
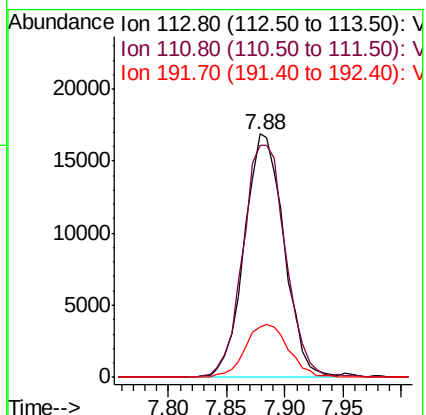
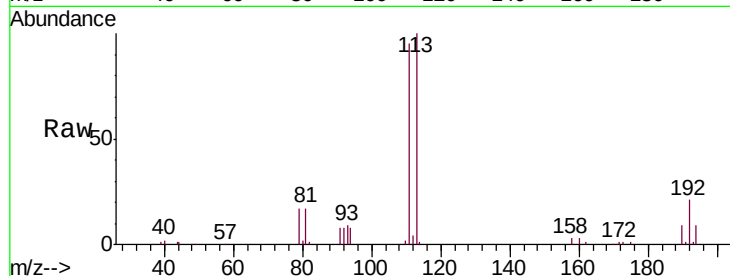
Tgt Ion: 113 Resp: 40085

Ion Ratio Lower Upper

113 100

111 102.4 82.8 124.2

192 23.5 17.8 26.8



#36

1,1-Dichloropropene

Concen: 6.798 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

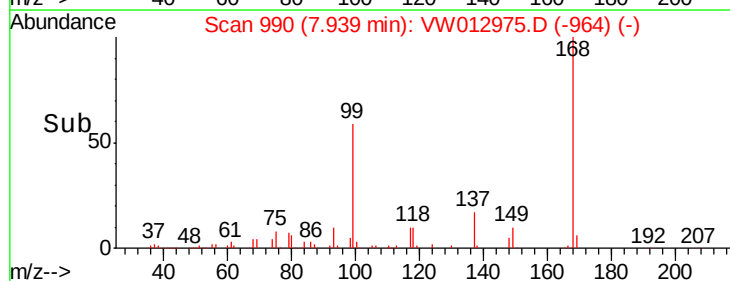
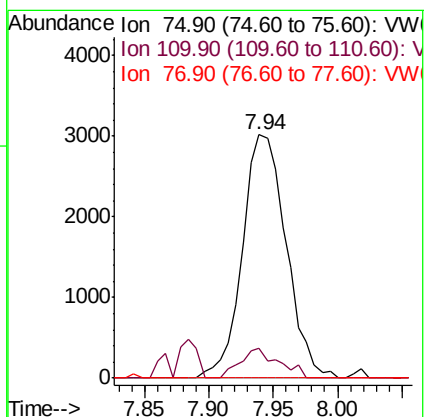
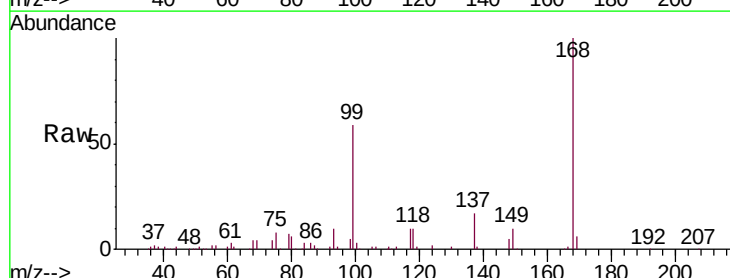
Tgt Ion: 75 Resp: 7078

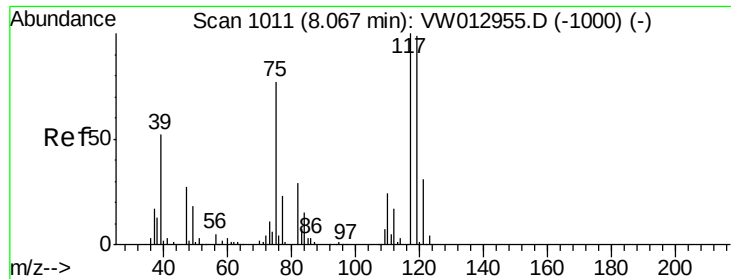
Ion Ratio Lower Upper

75 100

110 10.8 16.4 49.1#

77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 7.800 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

Instrument :

MSVOA_W

ClientSampleId :

T4-3-(1.5)-HELLGATE

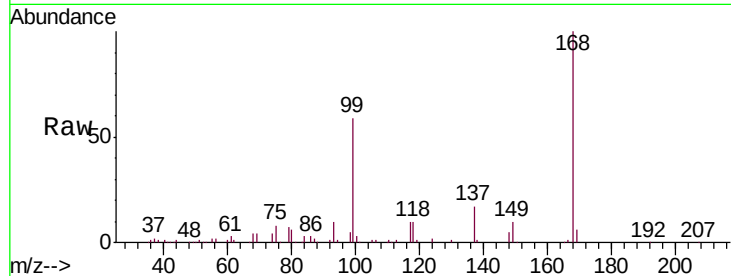
Tgt Ion:117 Resp: 8322

Ion Ratio Lower Upper

117 100

119 7.5 79.4 119.0#

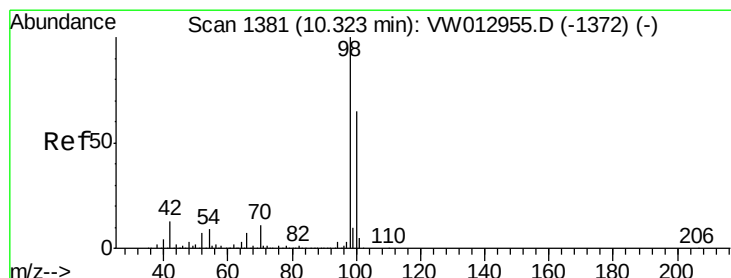
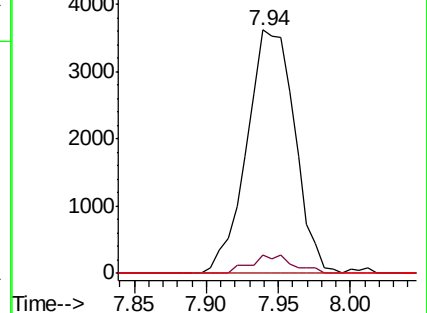
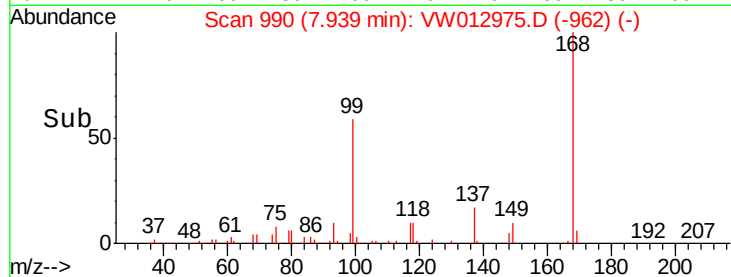
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 55.990 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012975.D

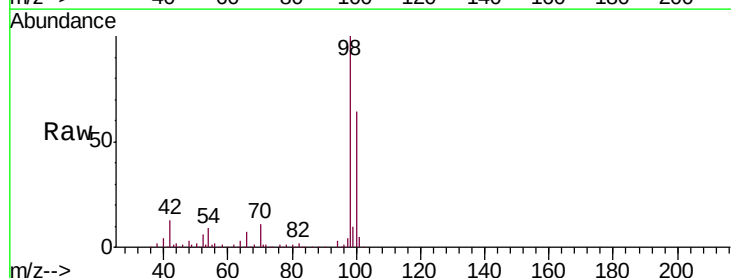
Acq: 14 Sep 2019 01:16

Tgt Ion: 98 Resp: 154896

Ion Ratio Lower Upper

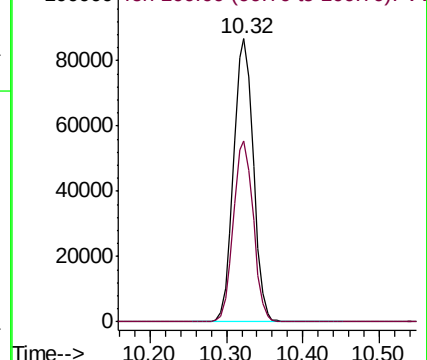
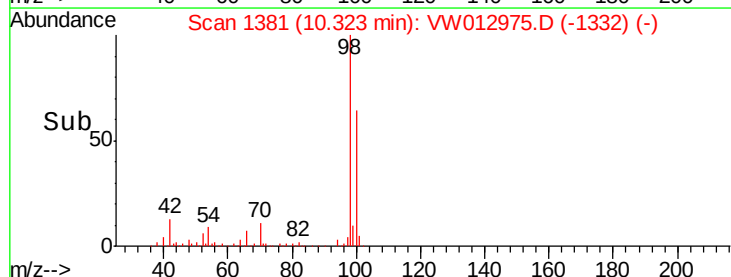
98 100

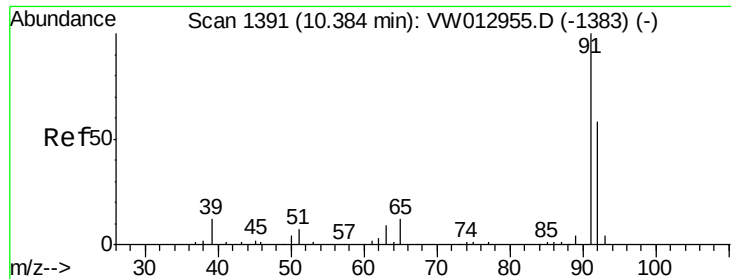
100 64.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 3.649 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

Instrument :

MSVOA_W

ClientSampleId :

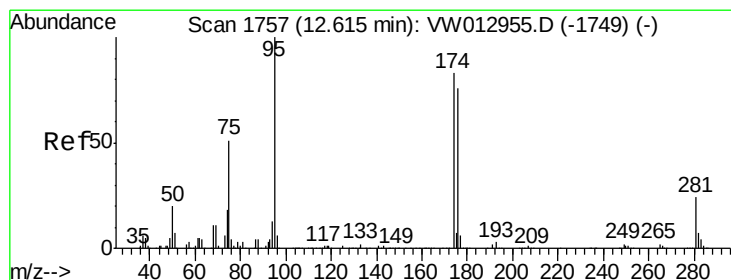
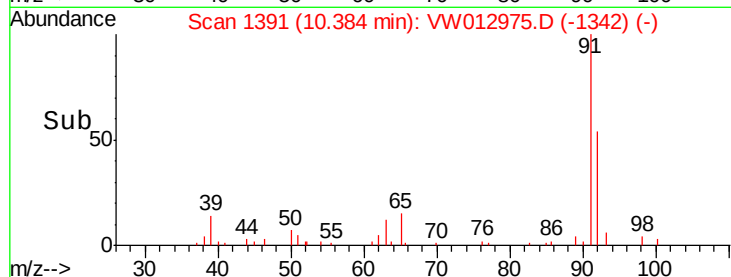
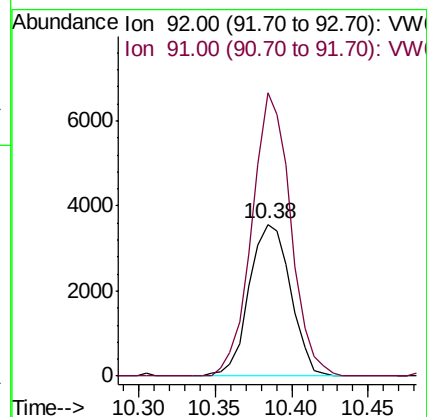
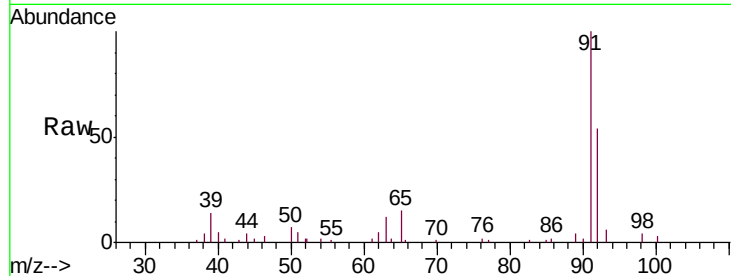
T4-3-(1.5)-HELLGATE

Tgt Ion: 92 Resp: 6739

Ion Ratio Lower Upper

92 100

91 174.3 137.5 206.3



#62

4-Bromofluorobenzene

Concen: 45.112 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

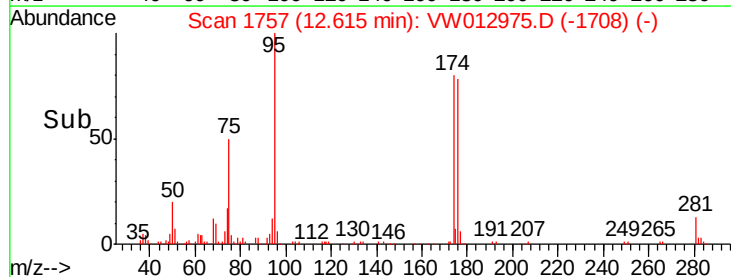
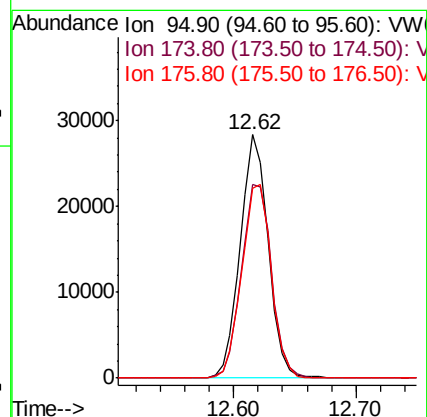
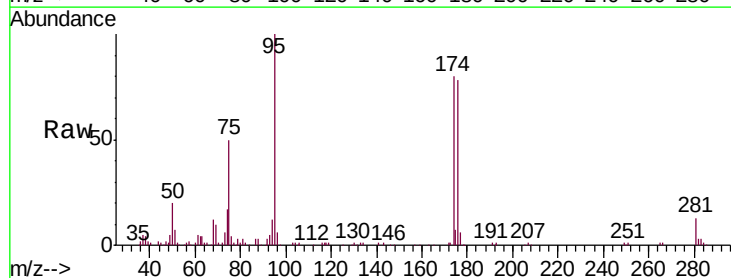
Tgt Ion: 95 Resp: 44876

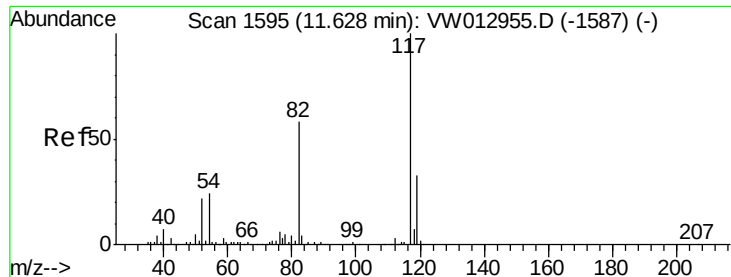
Ion Ratio Lower Upper

95 100

174 85.7 0.0 170.4

176 84.4 0.0 164.6

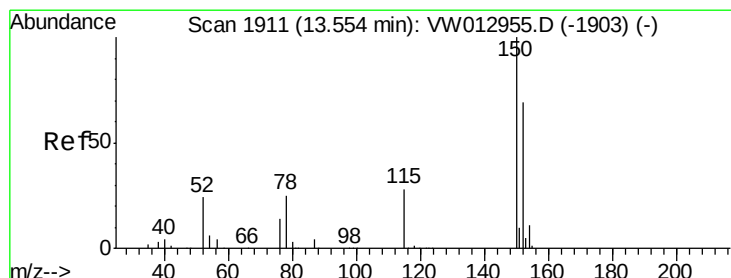
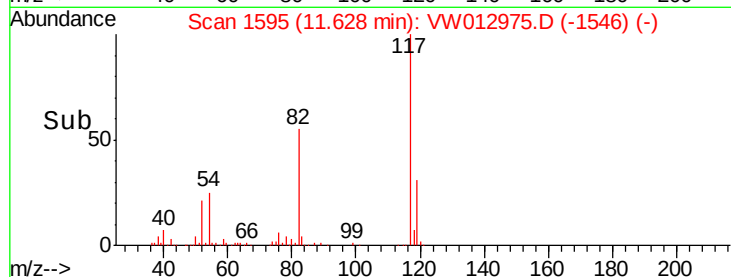
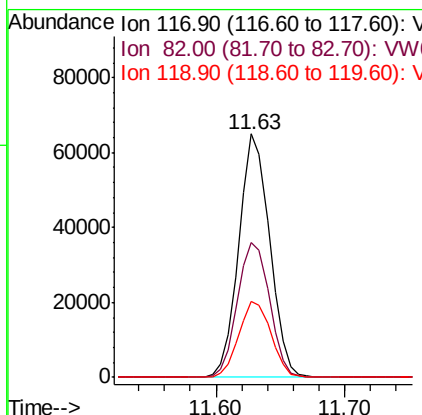
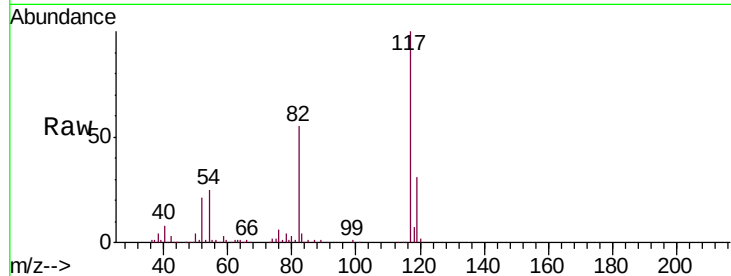




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW012975.D
Acq: 14 Sep 2019 01:16

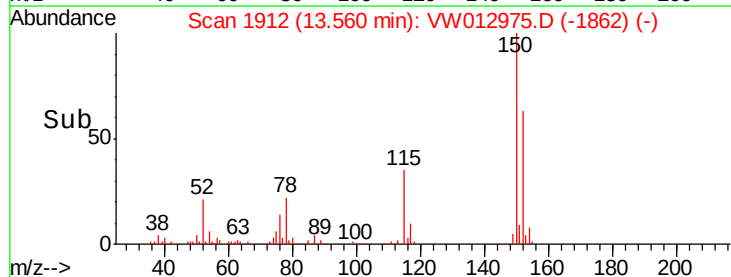
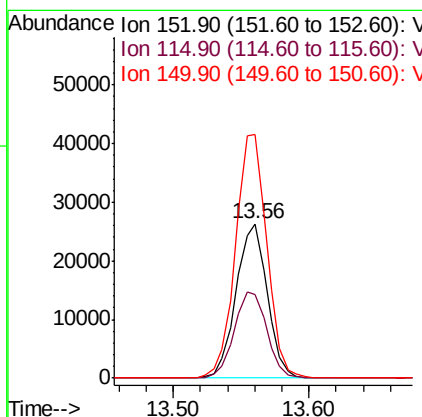
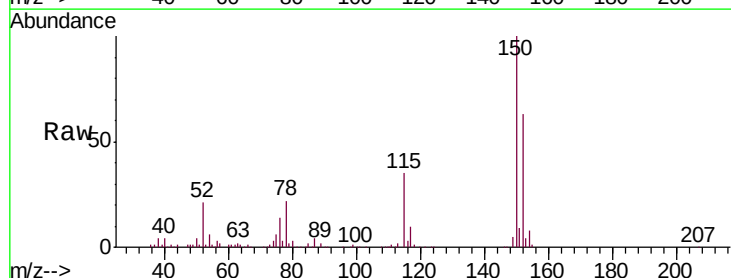
Instrument :
MSVOA_W
ClientSampleId :
T4-3-(1.5)-HELLGATE

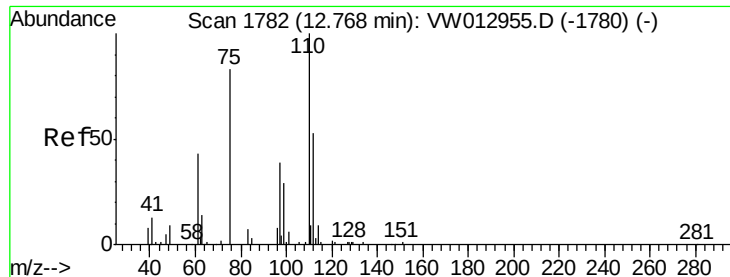
Tgt Ion:117 Resp: 108076
Ion Ratio Lower Upper
117 100
82 55.4 46.3 69.5
119 31.3 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.01 min
Lab File: VW012975.D
Acq: 14 Sep 2019 01:16

Tgt Ion:152 Resp: 41783
Ion Ratio Lower Upper
152 100
115 58.7 28.8 86.4
150 159.2 0.0 340.2





#76

1,2,3-Trichloropropane

Concen: 64.281 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

Instrument :

MSVOA_W

ClientSampleId :

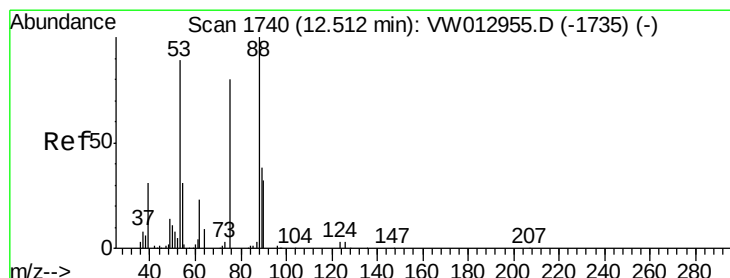
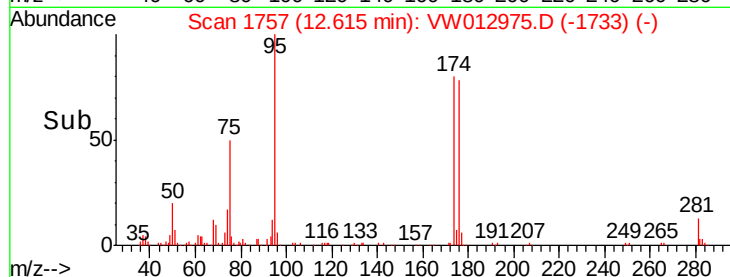
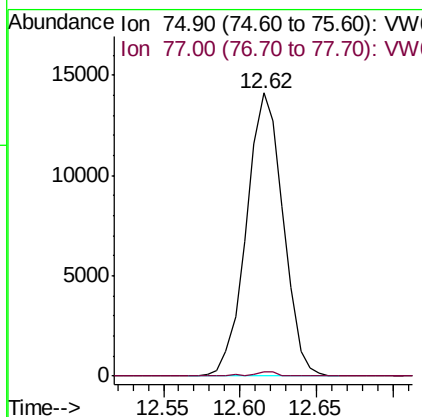
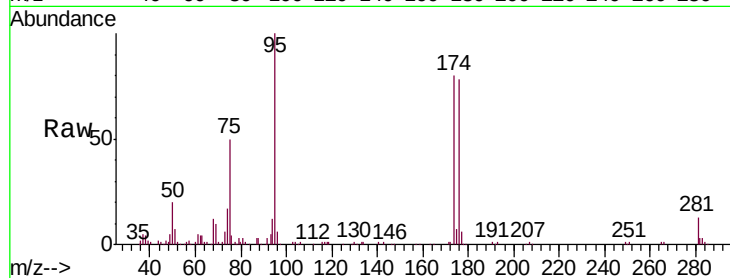
T4-3-(1.5)-HELLGATE

Tgt Ion: 75 Resp: 23526

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 145.821 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012975.D

Acq: 14 Sep 2019 01:16

Tgt Ion: 75 Resp: 23526

Ion Ratio Lower Upper

75 100

53 0.2 85.6 128.4#

89 0.3 37.2 55.8#

