

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012020\
 Data File : VY001296.D
 Acq On : 20 Jan 2020 15:26
 Operator : SY/MD
 Sample : L1187-02
 Misc : 7.23G/5ML/MSVOA Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 21 07:02:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y011020S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 21 06:54:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.81	168	172439	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.70	114	305031	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.49	117	243337	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.43	152	91115	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	84776	46.55	ug/l	-0.02
Spiked Amount			Recovery	=	93.10%	
35) Dibromofluoromethane	7.74	113	85780	48.03	ug/l	-0.01
Spiked Amount			Recovery	=	96.06%	
50) Toluene-d8	10.19	98	353303	51.34	ug/l	-0.01
Spiked Amount			Recovery	=	102.68%	
62) 4-Bromofluorobenzene	12.49	95	109929	39.07	ug/l	-0.01
Spiked Amount			Recovery	=	78.14%	

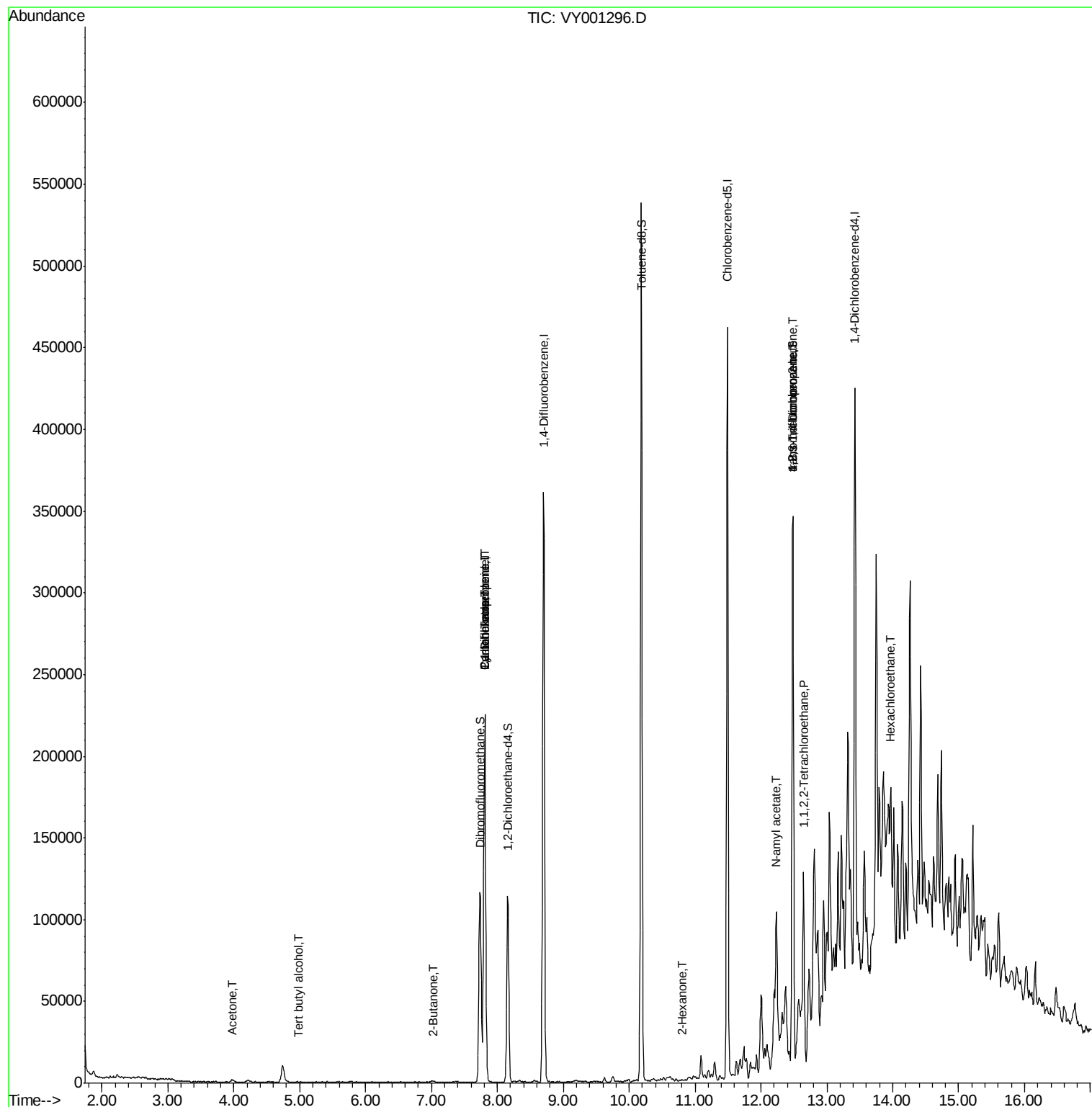
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.98	59	195	1.064	ug/l #	73
16) Acetone	3.97	43	3001	7.095	ug/l	98
20) Methylene Chloride	4.74	84	7553	Below Cal		95
25) 2-Butanone	7.02	43	737	1.120	ug/l #	47
31) Cyclohexane	7.80	56	3983	1.131	ug/l #	5
36) 1,1-Dichloropropene	7.80	75	14162	5.094	ug/l #	48
38) Carbon Tetrachloride	7.81	117	17317	6.797	ug/l #	14
59) 2-Hexanone	10.81	43	1224	1.103	ug/l #	23
74) N-amyl acetate	12.24	43	25020	11.704	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.64	83	9531	6.613	ug/l #	50
76) 1,2,3-Trichloropropane	12.48	75	53742	55.098	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	53742	93.434	ug/l #	8
90) Hexachloroethane	13.97	117	1444	1.232	ug/l #	14

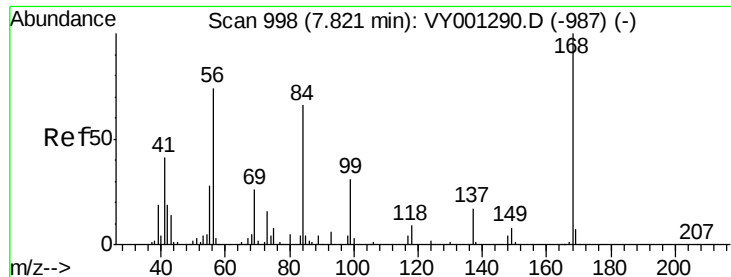
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

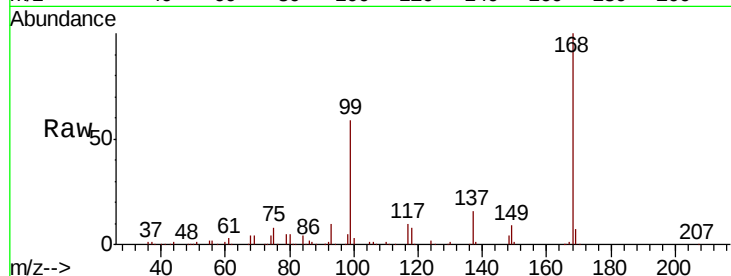
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 172439

Ion Ratio Lower Upper

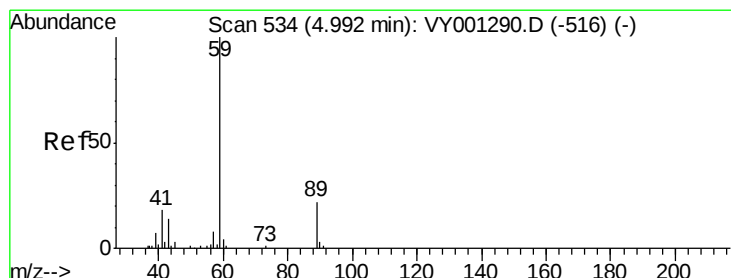
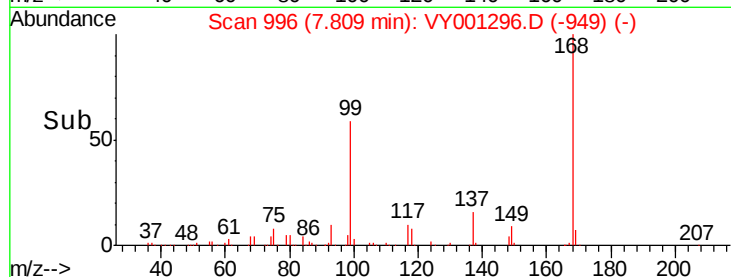
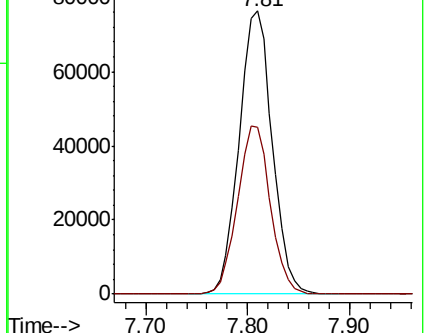
168 100

99 59.1 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001290.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001290.D (-987) (-)



#11

Tert butyl alcohol

Concen: 1.064 ug/l

RT: 4.98 min Scan# 532

Delta R.T. -0.01 min

Lab File: VY001296.D

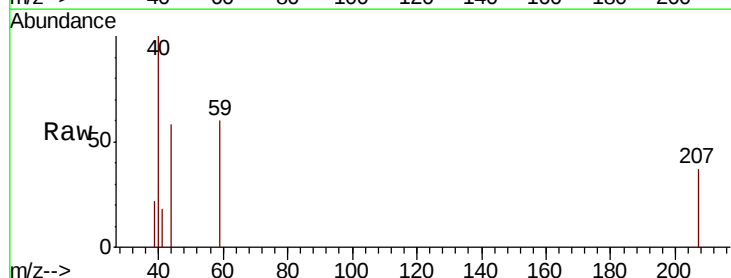
Acq: 20 Jan 2020 15:26

Tgt Ion: 59 Resp: 195

Ion Ratio Lower Upper

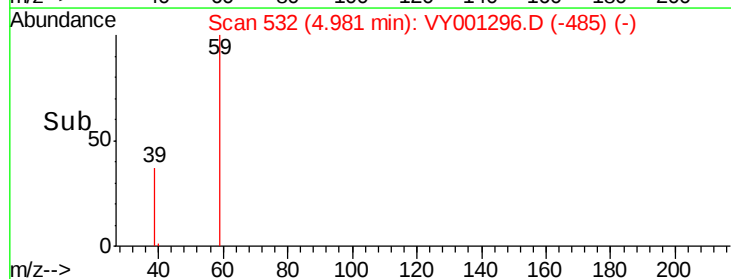
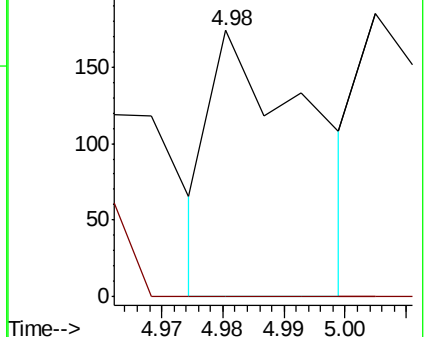
59 100

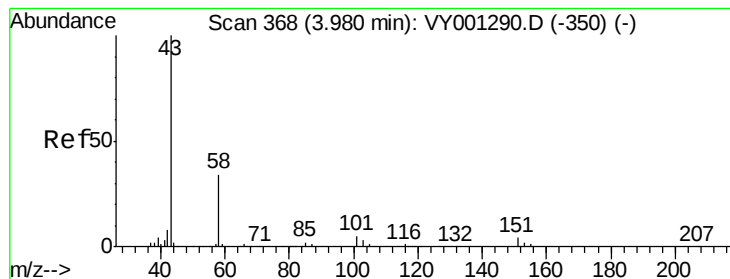
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VY001290.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VY001290.D (-516) (-)





#16

Acetone

Concen: 7.095 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.01 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

Instrument :

MSVOA_Y

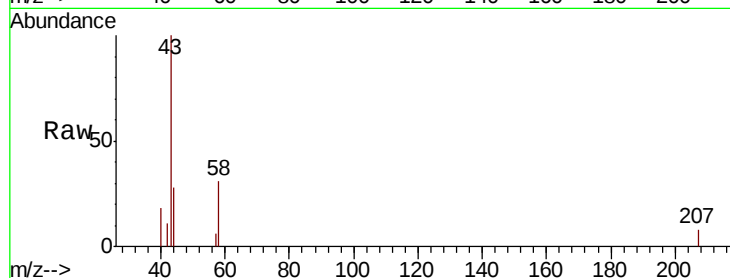
ClientSampleId :

Tot Ion: 43 Resp: 3001

Ion Ratio Lower Upper

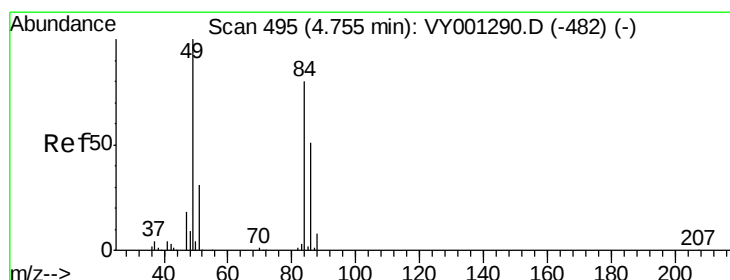
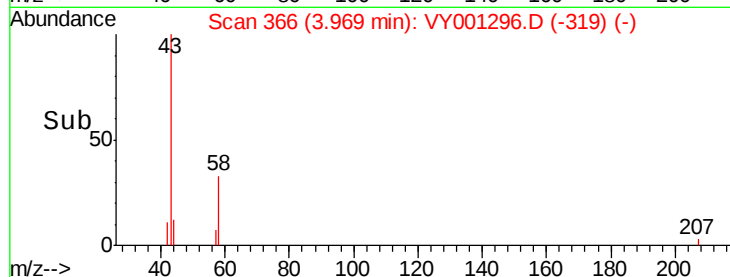
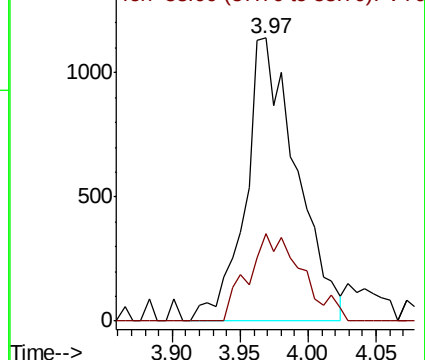
43 100

58 31.2 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VY001296.D (-366) (-)

Ion 58.00 (57.70 to 58.70): VY001296.D (-366) (-)



#20

Methylene Chloride

Concen: Below Cal

RT: 4.74 min Scan# 492

Delta R.T. -0.02 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

Tgt Ion: 84 Resp: 7553

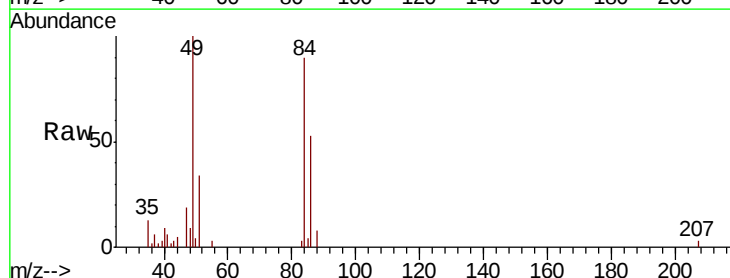
Ion Ratio Lower Upper

84 100

49 111.5 93.8 140.6

51 38.0 29.9 44.9

86 59.0 52.6 78.8

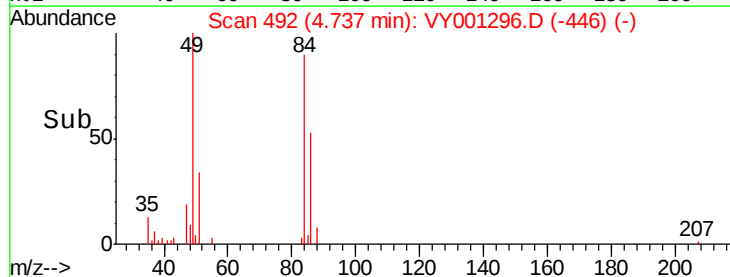
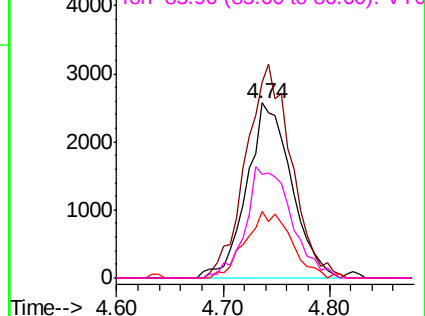


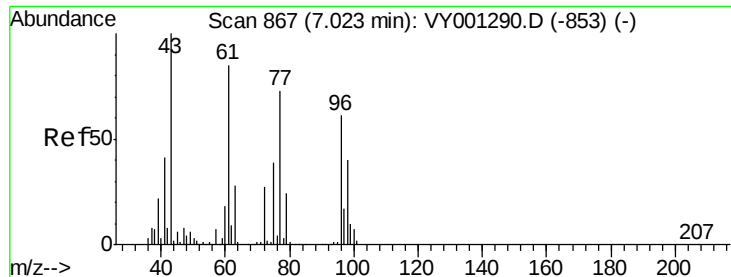
Abundance Ion 83.90 (83.60 to 84.60): VY001296.D (-492) (-)

Ion 48.90 (48.60 to 49.60): VY001296.D (-492) (-)

Ion 50.90 (50.60 to 51.60): VY001296.D (-492) (-)

Ion 85.90 (85.60 to 86.60): VY001296.D (-492) (-)

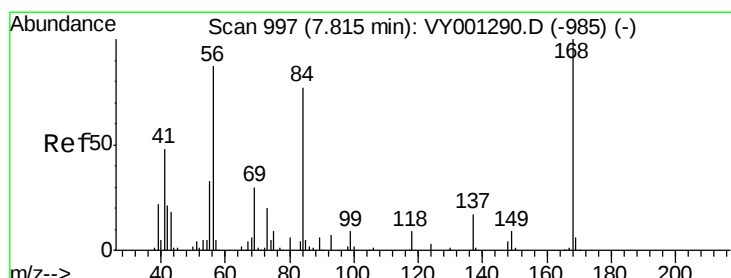
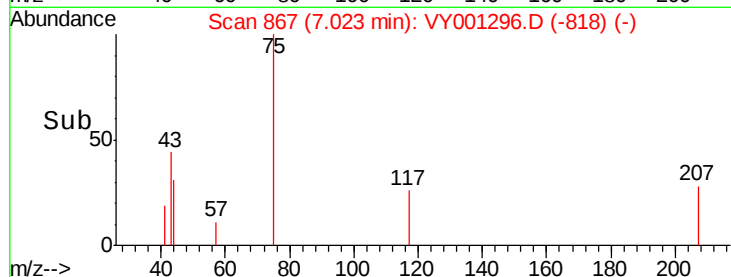
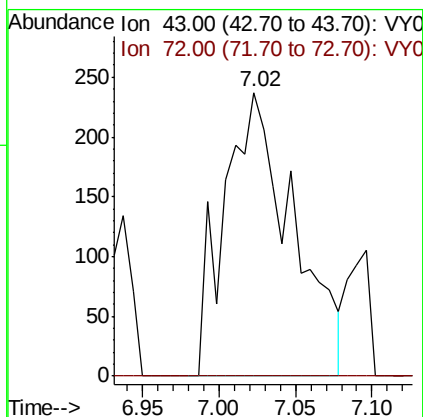
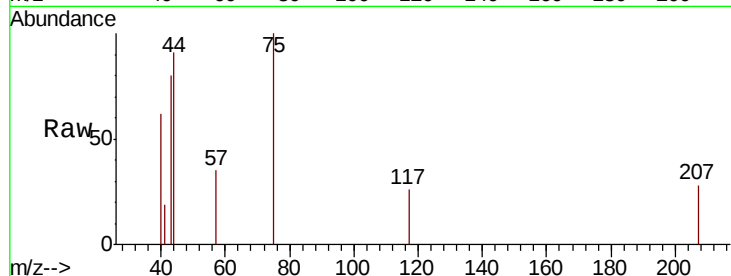




#25
2-Butanone
Concen: 1.120 ug/l
RT: 7.02 min Scan# 867
Delta R.T. 0.00 min
Lab File: VY001296.D
Acq: 20 Jan 2020 15:26

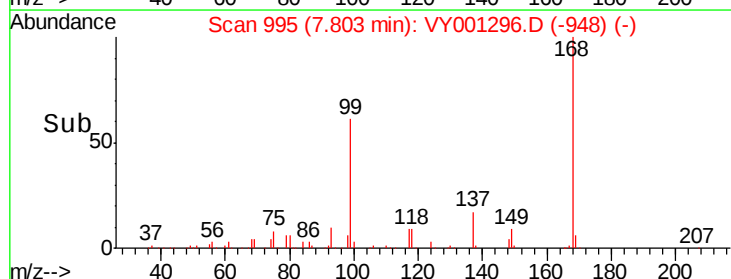
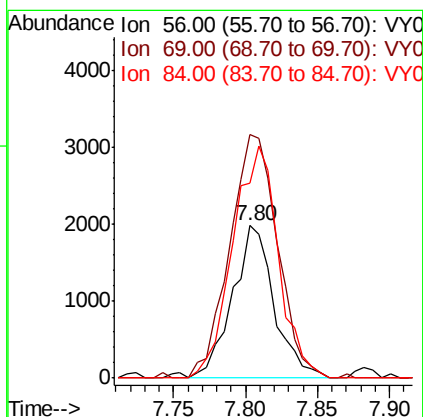
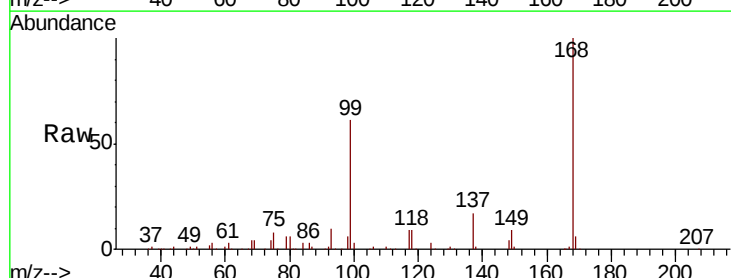
Instrument :
MSVOA_Y
ClientSampleId :

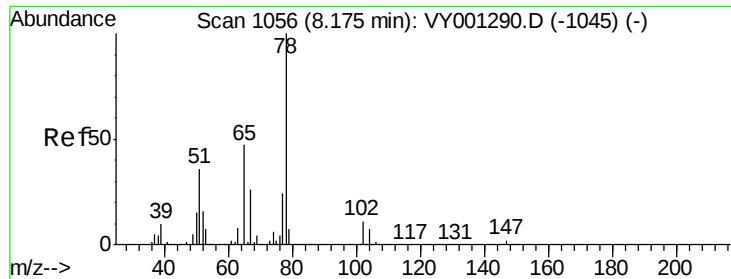
Tot Ion: 43 Resp: 737
Ion Ratio Lower Upper
43 100
72 0.0 22.2 33.2#



#31
Cyclohexane
Concen: 1.131 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.01 min
Lab File: VY001296.D
Acq: 20 Jan 2020 15:26

Tgt Ion: 56 Resp: 3983
Ion Ratio Lower Upper
56 100
69 159.9 27.8 41.8#
84 128.2 68.9 103.3#

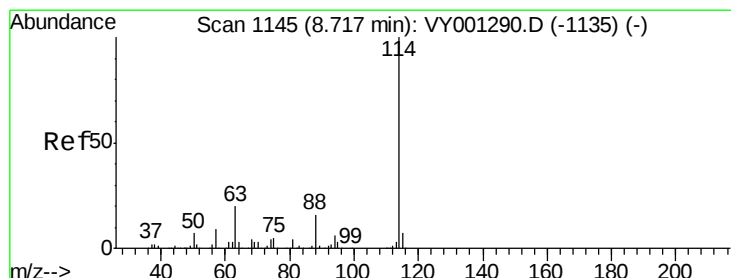
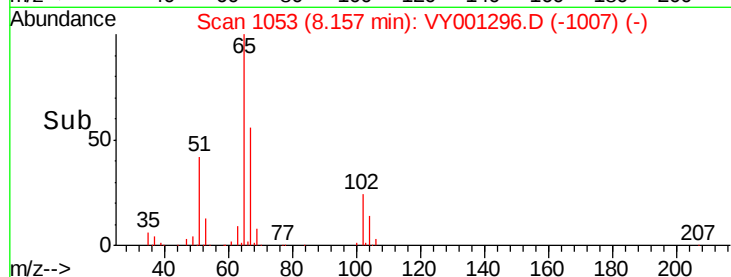
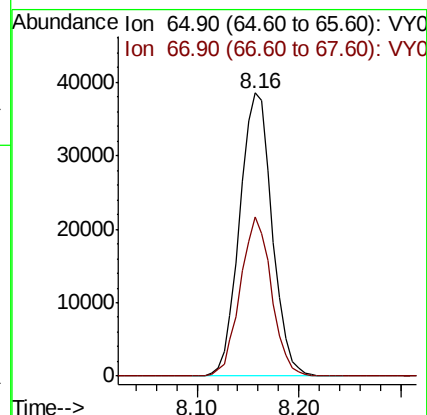
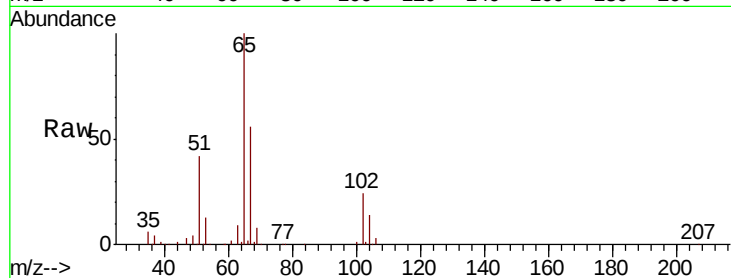




#33
 1,2-Dichloroethane-d4
 Concen: 46.548 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. -0.02 min
 Lab File: VY001296.D
 Acq: 20 Jan 2020 15:26

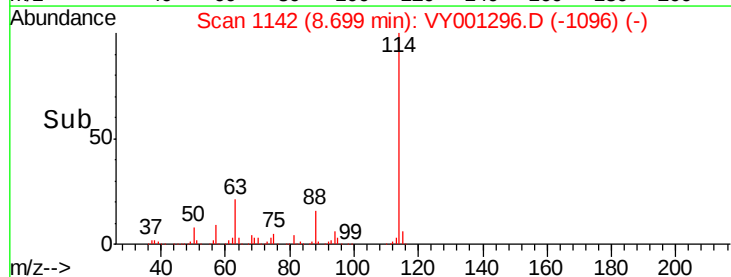
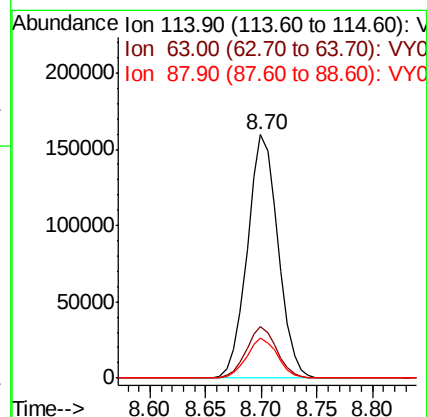
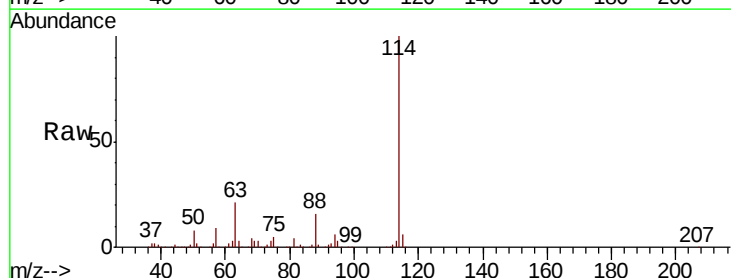
Instrument :
 MSVOA_Y
 ClientSampleId :

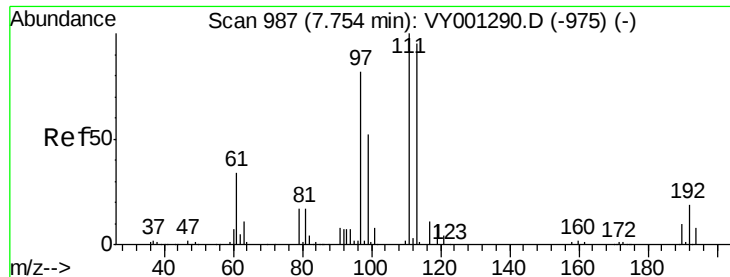
Tot Ion: 65 Resp: 84776
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.02 min
 Lab File: VY001296.D
 Acq: 20 Jan 2020 15:26

Tgt Ion: 114 Resp: 305031
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.8
 88 16.3 0.0 32.4





#35

Dibromofluoromethane

Concen: 48.030 ug/l

RT: 7.74 min Scan# 985

Delta R.T. -0.01 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :

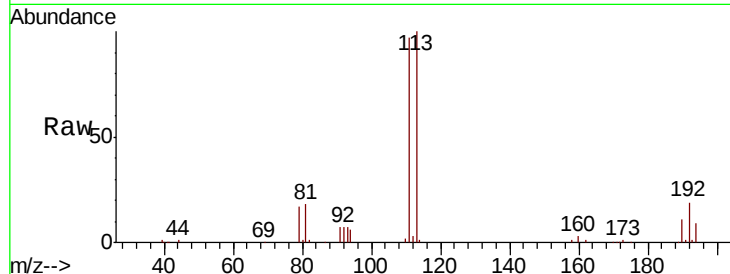
Tot Ion:113 Resp: 85780

Ion Ratio Lower Upper

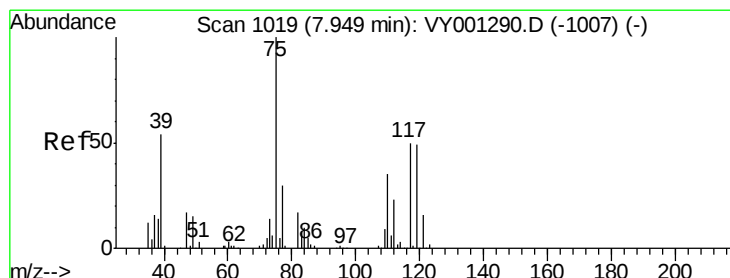
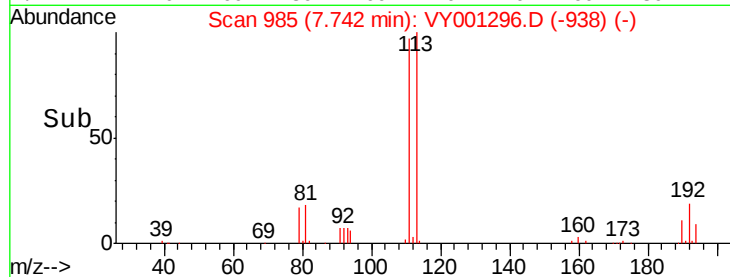
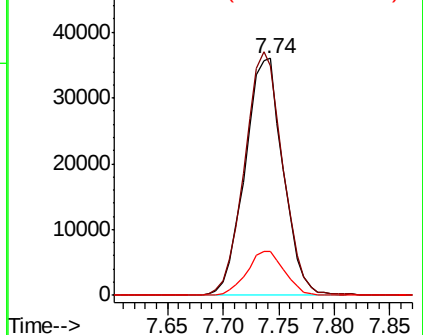
113 100

111 102.4 82.9 124.3

192 18.4 15.4 23.2



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: 5.094 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.15 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

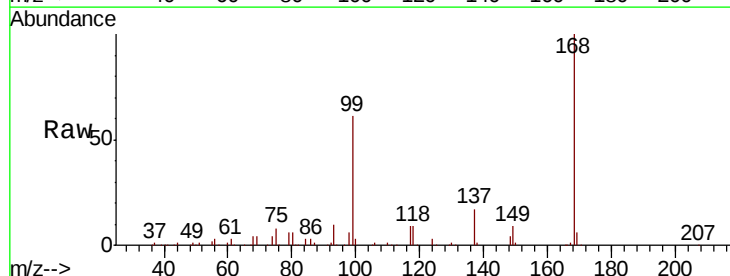
Tgt Ion: 75 Resp: 14162

Ion Ratio Lower Upper

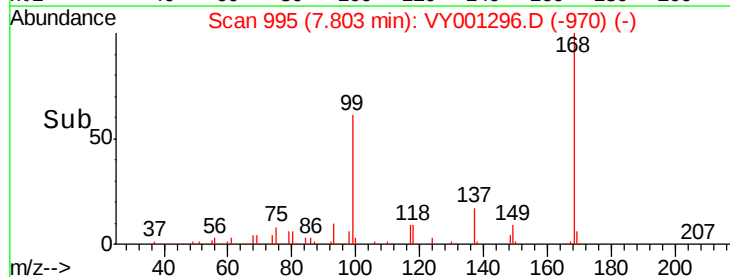
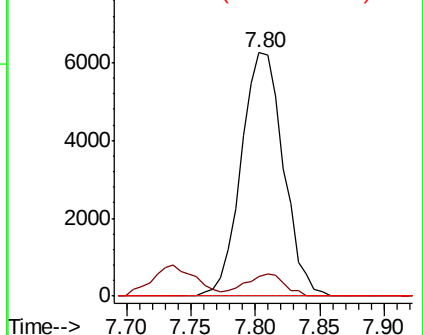
75 100

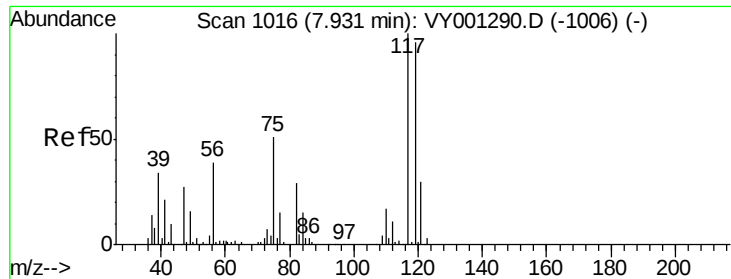
110 8.3 18.3 54.8#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VY0

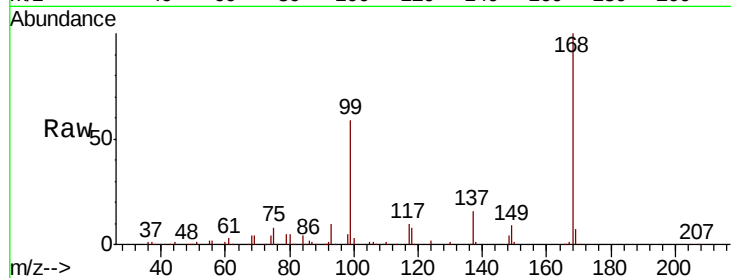




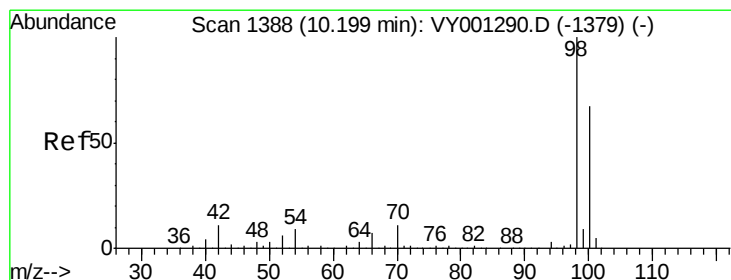
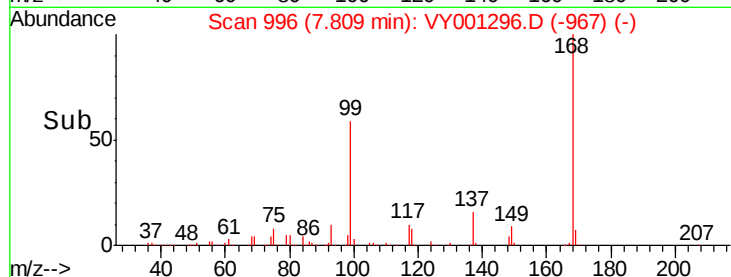
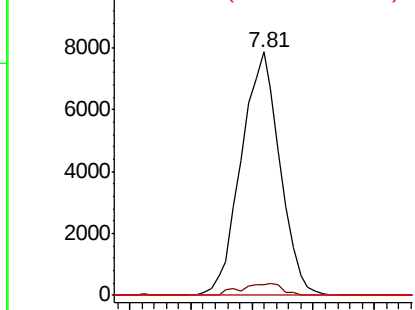
#38
Carbon Tetrachloride
Concen: 6.797 ug/l
RT: 7.81 min Scan# 996
Delta R.T. -0.12 min
Lab File: VY001296.D
Acq: 20 Jan 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 17317
Ion Ratio Lower Upper
117 100
119 4.3 78.3 117.5#
121 0.0 23.5 35.3#

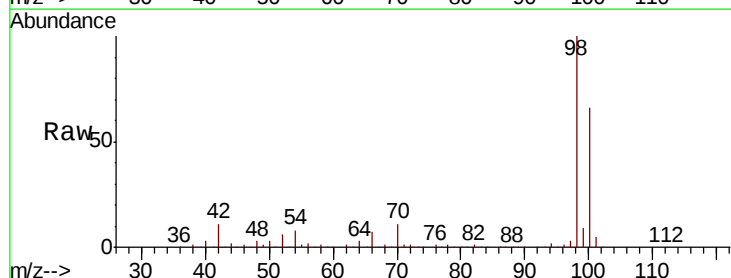


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

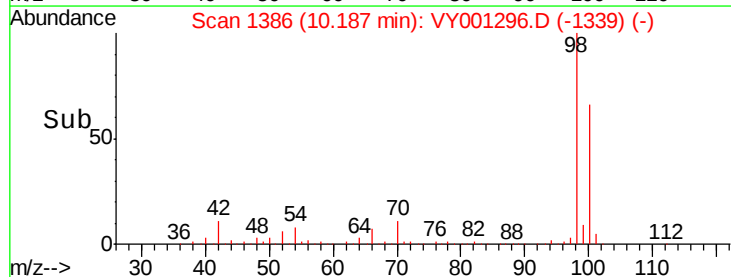
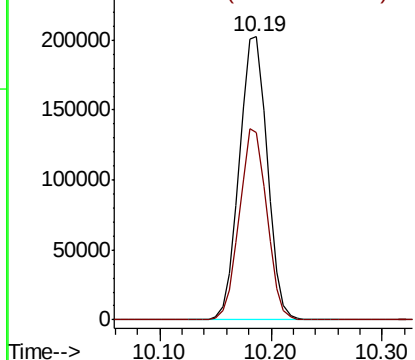


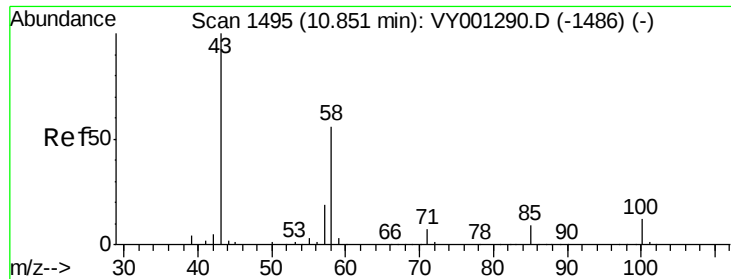
#50
Toluene-d8
Concen: 51.341 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VY001296.D
Acq: 20 Jan 2020 15:26

Tgt Ion: 98 Resp: 353303
Ion Ratio Lower Upper
98 100
100 66.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY





#59

2-Hexanone

Concen: 1.103 ug/l

RT: 10.81 min Scan# 1488

Delta R.T. -0.04 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

Instrument :

MSVOA_Y

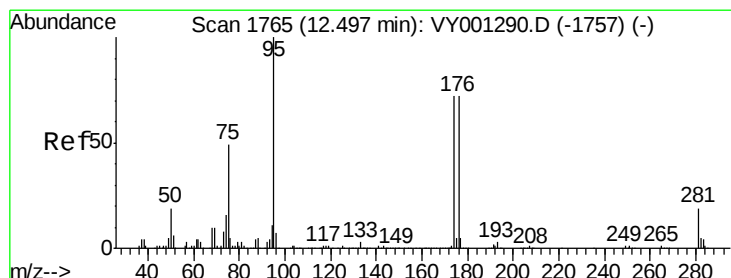
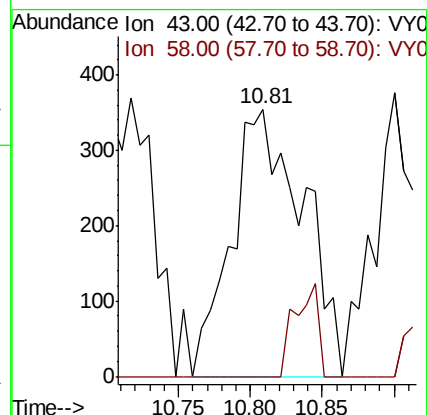
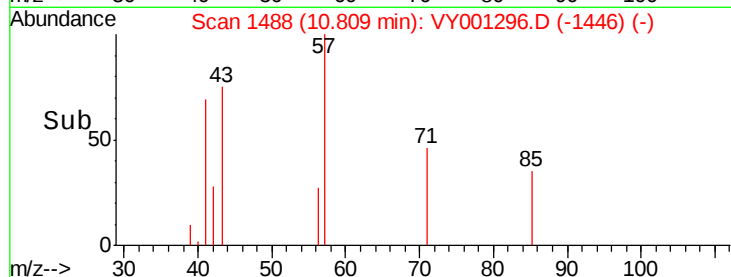
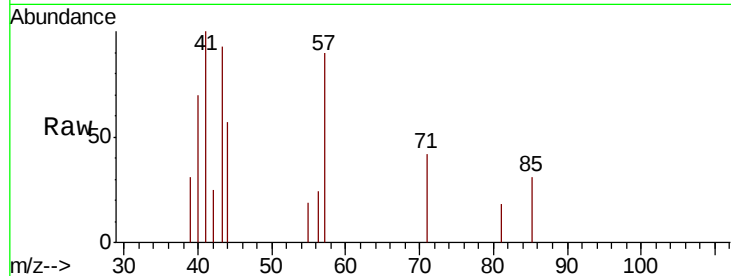
ClientSampleId :

Tot Ion: 43 Resp: 1224

Ion Ratio Lower Upper

43 100

58 0.0 28.4 85.2#



#62

4-Bromofluorobenzene

Concen: 39.074 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

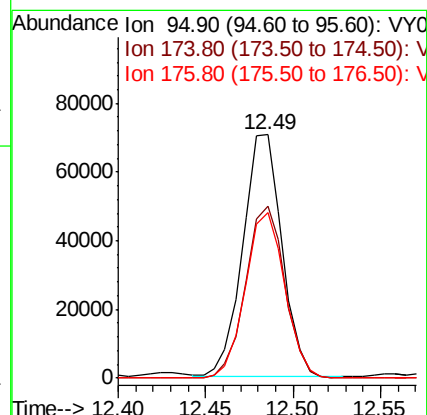
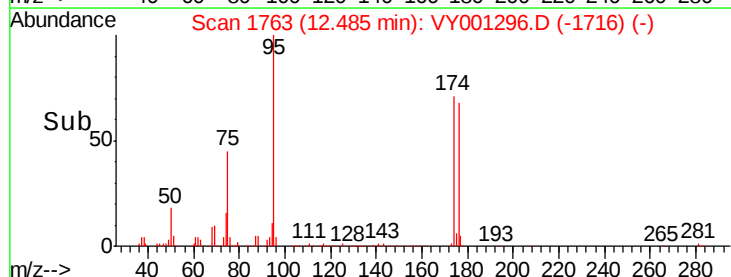
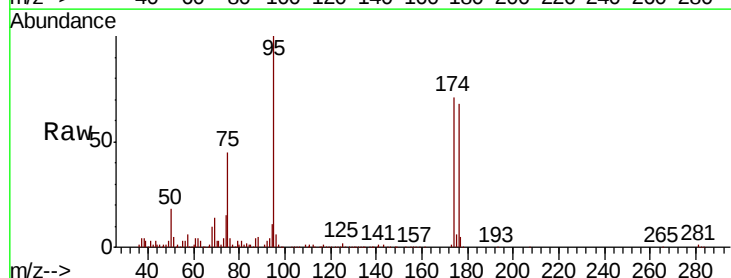
Tgt Ion: 95 Resp: 109929

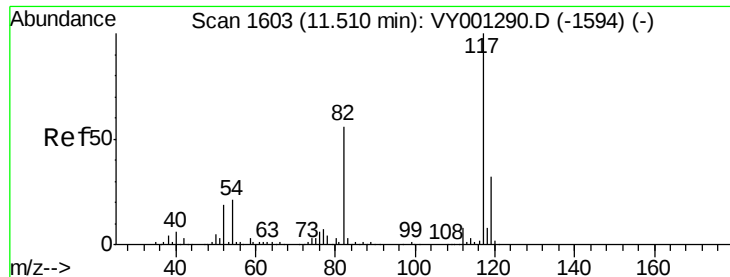
Ion Ratio Lower Upper

95 100

174 70.9 0.0 143.2

176 68.7 0.0 136.0

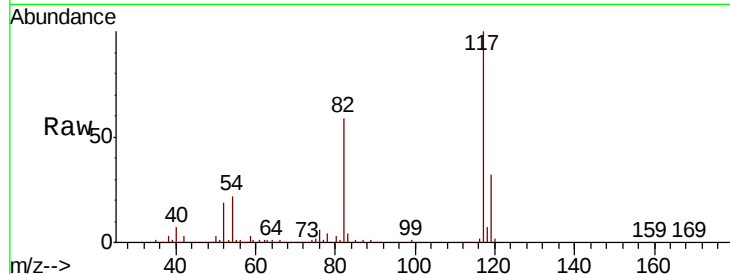




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.02 min
Lab File: VY001296.D
Acq: 20 Jan 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.8	44.9	67.3
119	31.9	25.7	38.5

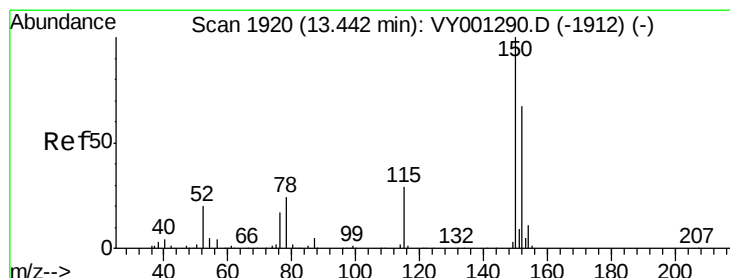
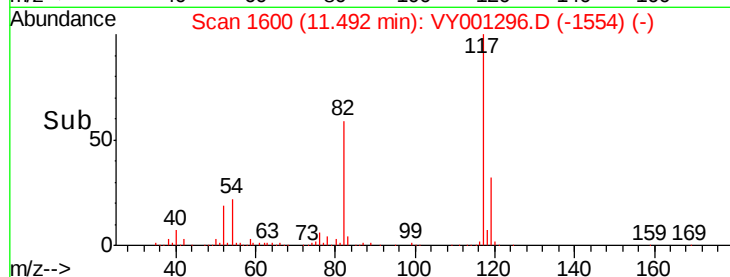
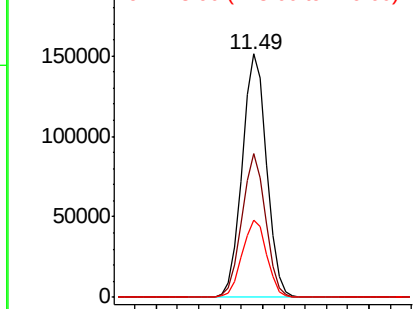


Abundance

Ion 116.90 (116.60 to 117.60): V

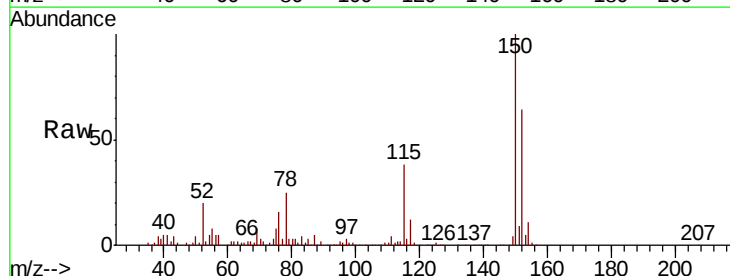
Ion 82.00 (81.70 to 82.70): VY0

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY001296.D
Acq: 20 Jan 2020 15:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.4	30.9	92.5
150	157.0	0.0	346.8

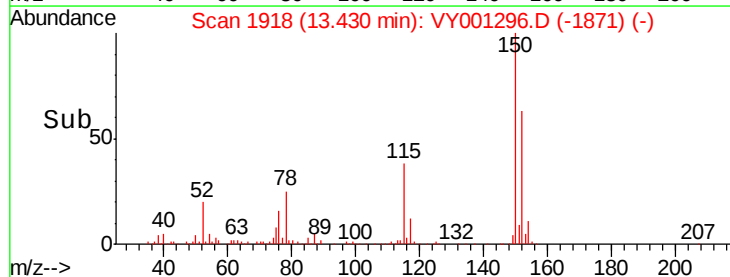
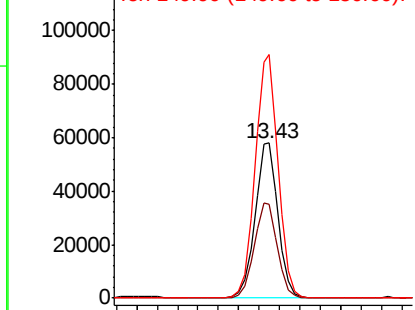


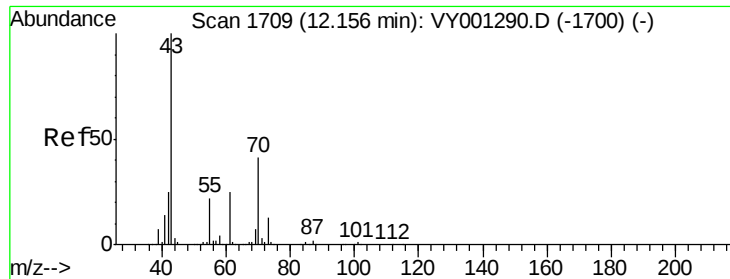
Abundance

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: 11.704 ug/l

RT: 12.24 min Scan# 1722

Delta R.T. 0.08 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 43 Resp: 25020

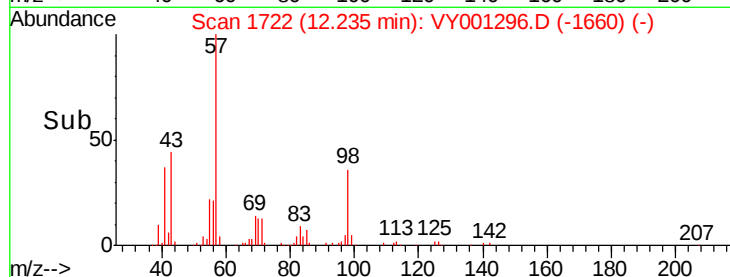
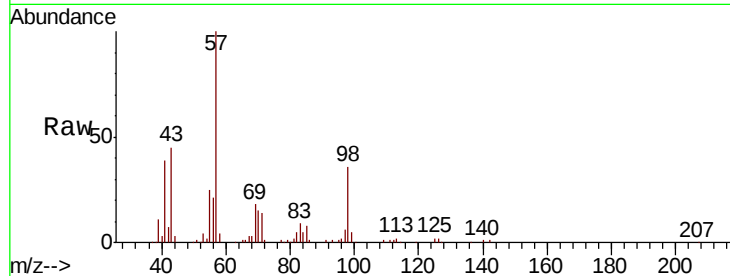
Ion Ratio Lower Upper

43 100

70 41.2 35.0 52.6

55 92.5 18.4 27.6#

61 0.0 20.1 30.1#

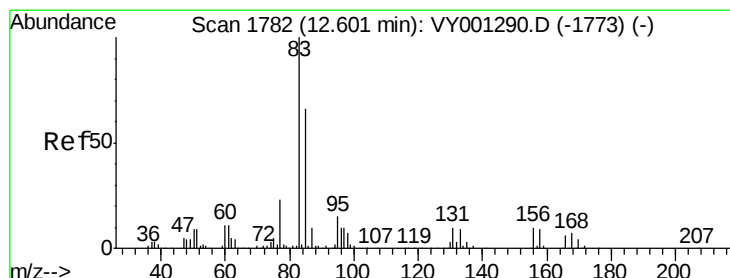
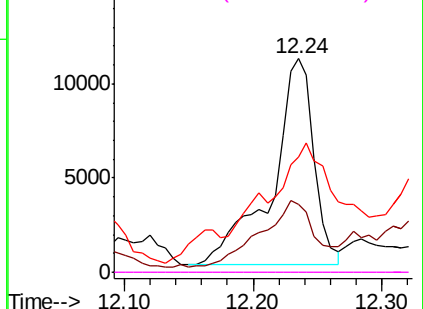


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0



#75

1,1,2,2-Tetrachloroethane

Concen: 6.613 ug/l

RT: 12.64 min Scan# 1789

Delta R.T. 0.04 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

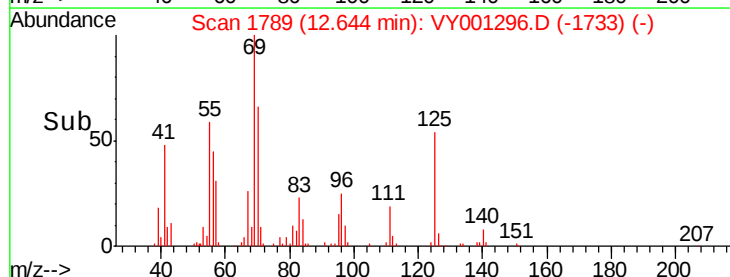
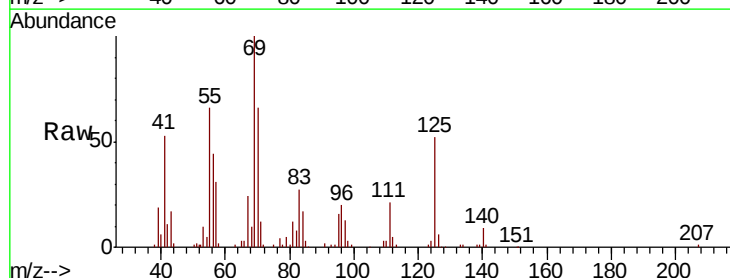
Tgt Ion: 83 Resp: 9531

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

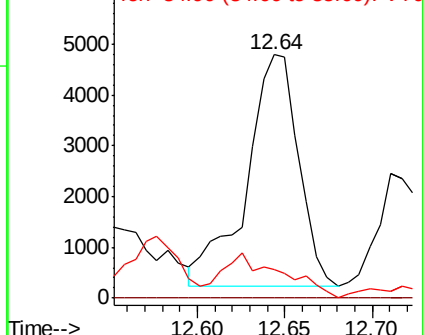
85 22.1 32.2 96.6#

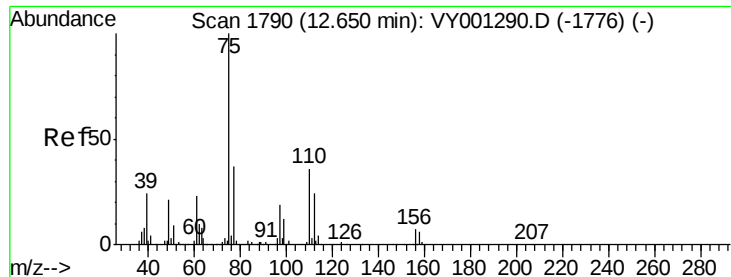


Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VY0





#76

1,2,3-Trichloropropane

Concen: 55.098 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.17 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

Instrument :

MSVOA_Y

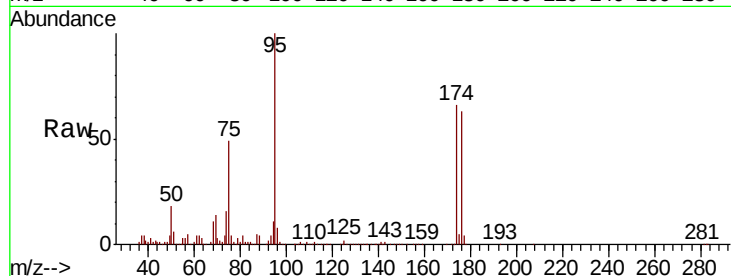
ClientSampleId :

Tot Ion: 75 Resp: 53742

Ion Ratio Lower Upper

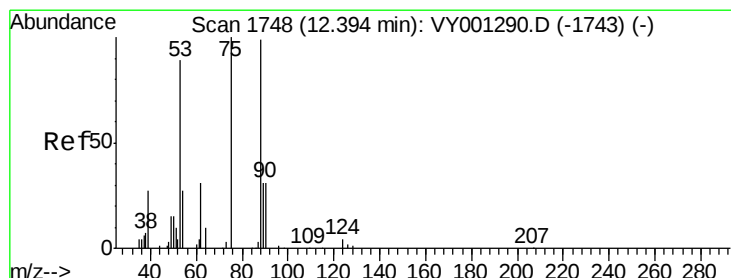
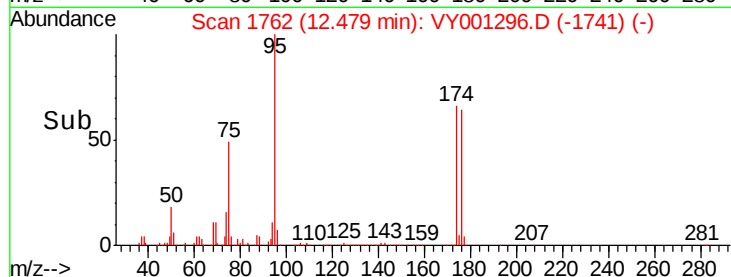
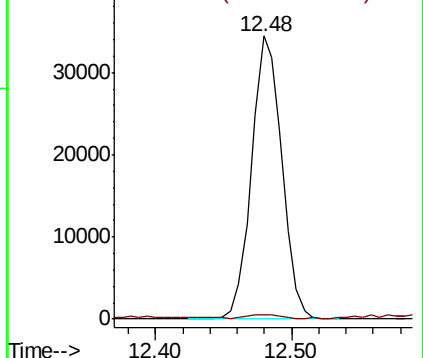
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0



#81

trans-1,4-Dichloro-2-butene

Concen: 93.434 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.09 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

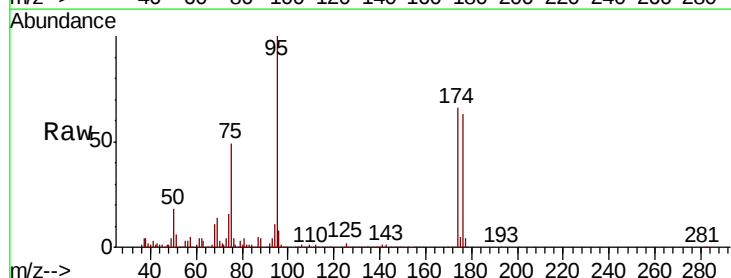
Tgt Ion: 75 Resp: 53742

Ion Ratio Lower Upper

75 100

53 1.4 69.4 104.2#

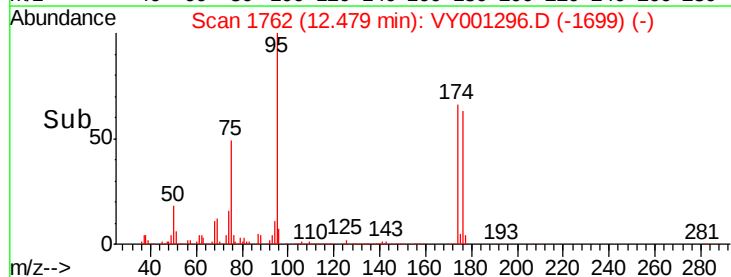
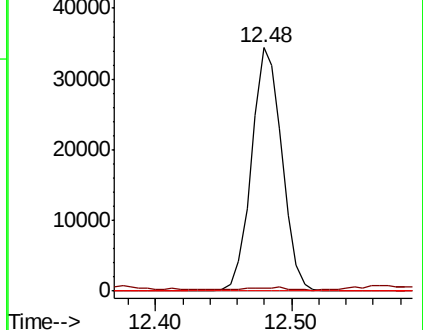
89 0.0 0.0 0.0

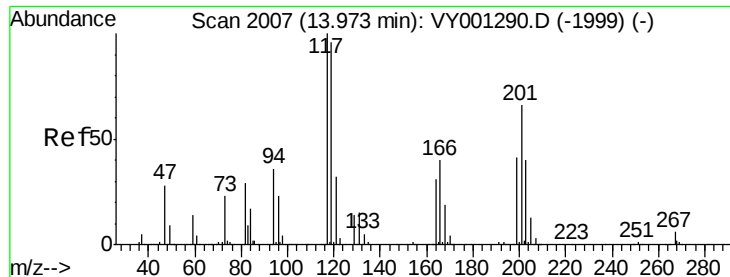


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#90

Hexachloroethane

Concen: 1.232 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VY001296.D

Acq: 20 Jan 2020 15:26

Instrument :

MSVOA_Y

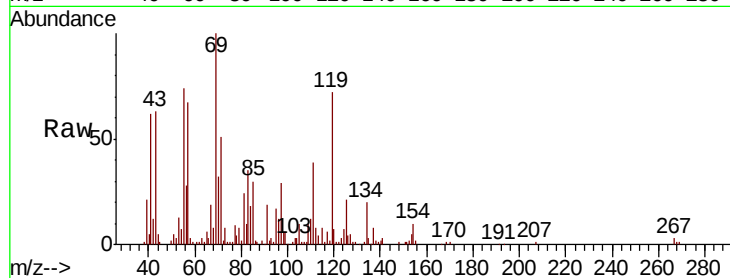
ClientSampleId :

Tot Ion:117 Resp: 1444

Ion Ratio Lower Upper

117 100

201 0.0 35.4 106.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

