

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012020\
 Data File : VY001295.D
 Acq On : 20 Jan 2020 15:04
 Operator : SY/MD
 Sample : L1171-02RE
 Misc : 5.35G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 21 07:02:03 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	7.82	168	234197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.72	114	434824	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	389611	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	189918	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.17	65	135780	54.89	ug/l	0.00
Spiked Amount						
			Recovery	=	109.78%	
35) Dibromofluoromethane	7.75	113	130501	51.26	ug/l	0.00
Spiked Amount						
			Recovery	=	102.52%	
50) Toluene-d8	10.20	98	513774	52.37	ug/l	0.00
Spiked Amount						
			Recovery	=	104.74%	
62) 4-Bromofluorobenzene	12.49	95	201882	50.34	ug/l	0.00
Spiked Amount						
			Recovery	=	100.68%	

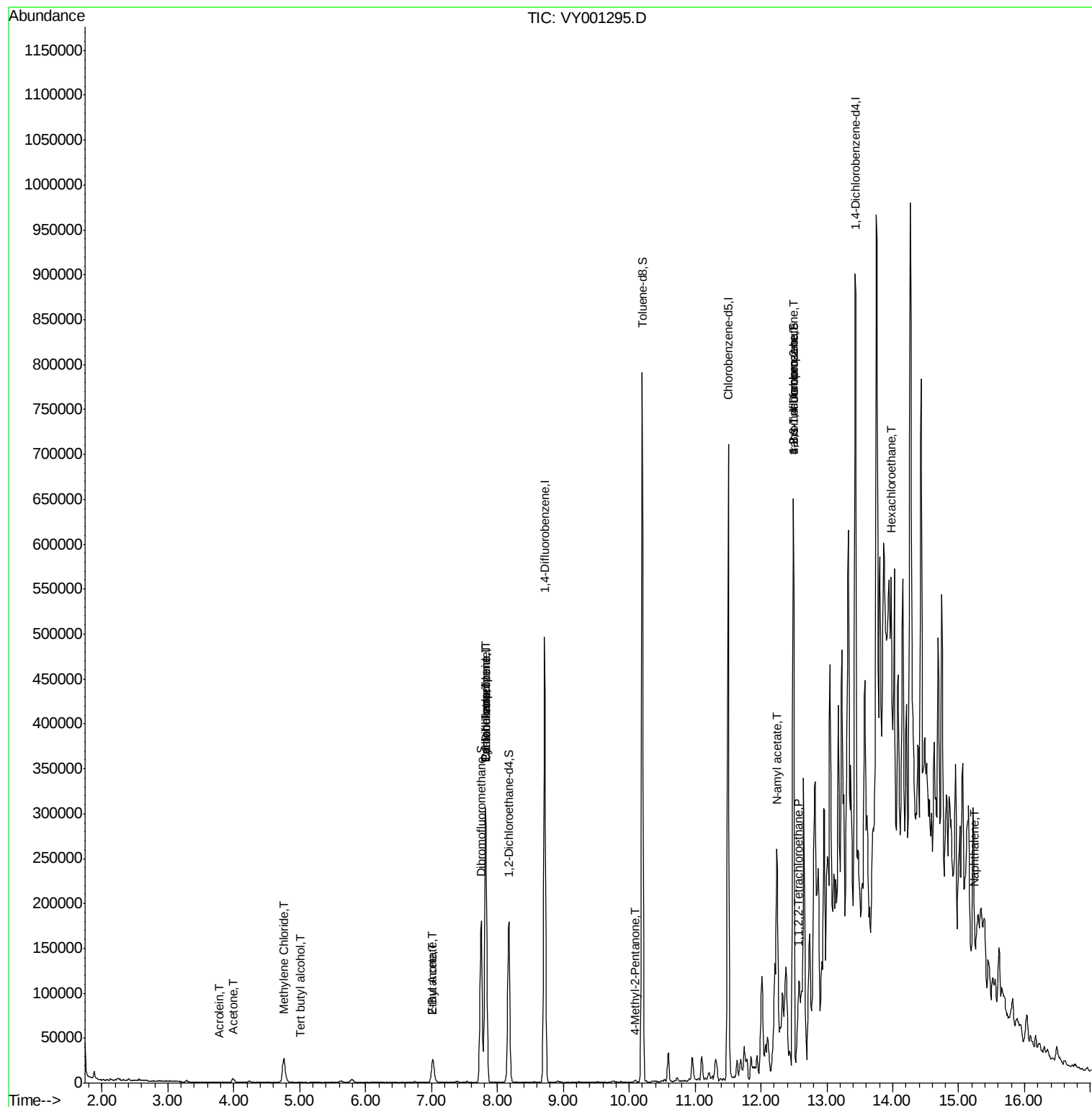
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.01	59	653	2.624	ug/l #	81
13) Acrolein	3.77	56	235	1.049	ug/l #	70
16) Acetone	3.98	43	7307	12.720	ug/l	97
20) Methylene Chloride	4.76	84	20828	2.537	ug/l	96
25) 2-Butanone	7.02	43	3895	4.357	ug/l	94
31) Cyclohexane	7.82	56	4870	1.018	ug/l #	1
36) 1,1-Dichloropropene	7.82	75	18503	4.669	ug/l #	48
37) Ethyl Acetate	7.02	43	3895	1.675	ug/l #	60
38) Carbon Tetrachloride	7.82	117	23351	6.429	ug/l #	15
51) 4-Methyl-2-Pentanone	10.09	43	2464	1.092	ug/l	93
74) N-amyl acetate	12.24	43	61728	13.854	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.56	83	7178	2.390	ug/l #	71
76) 1,2,3-Trichloropropane	12.49	75	93348	45.914	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	93348	77.861	ug/l #	7
90) Hexachloroethane	13.98	117	2965	1.214	ug/l #	18
95) Naphthalene	15.25	128	9786	1.151	ug/l #	66

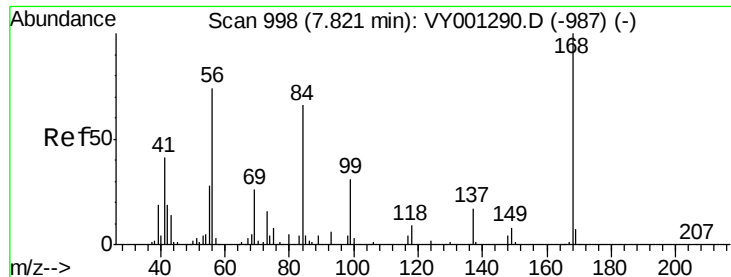
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.00 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

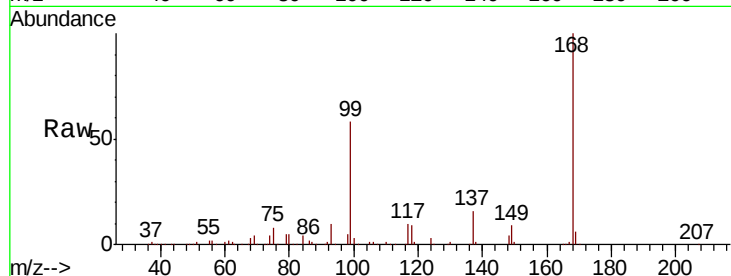
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 234197

Ion Ratio Lower Upper

168 100

99 58.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001295.D (-949) (-)

Ion 98.90 (98.60 to 99.60): VY001295.D (-949) (-)

7.82

120000

100000

80000

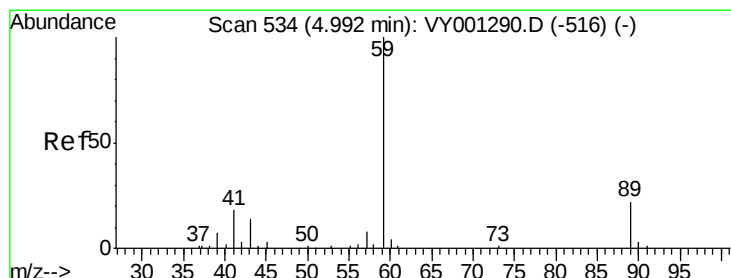
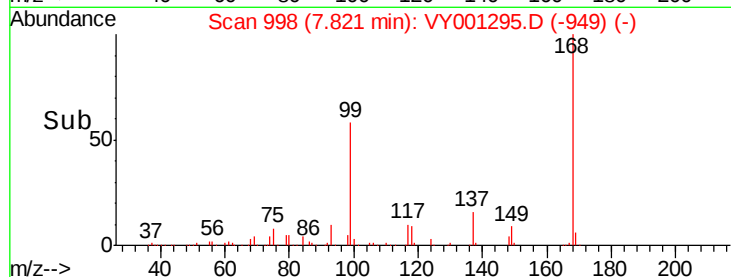
60000

40000

20000

0

Time--> 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 2.624 ug/l

RT: 5.01 min Scan# 537

Delta R.T. 0.02 min

Lab File: VY001295.D

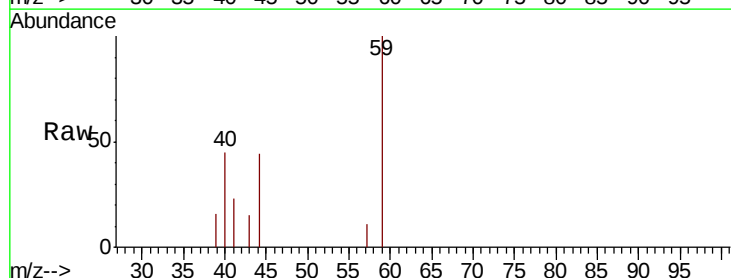
Acq: 20 Jan 2020 15:04

Tgt Ion: 59 Resp: 653

Ion Ratio Lower Upper

59 100

57 16.7 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VY001295.D (-485) (-)

Ion 57.00 (56.70 to 57.70): VY001295.D (-485) (-)

5.01

500

400

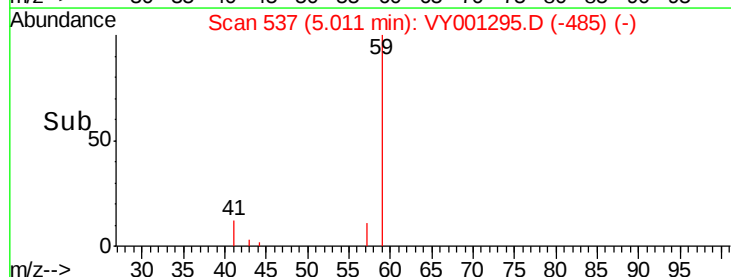
300

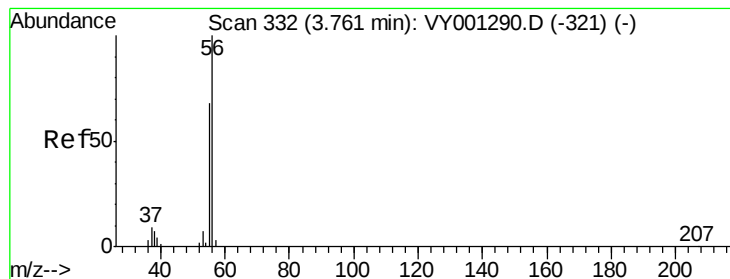
200

100

0

Time--> 5.00 5.05





#13

Acrolein

Concen: 1.049 ug/l

RT: 3.77 min Scan# 333

Delta R.T. 0.01 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

Instrument :

MSVOA_Y

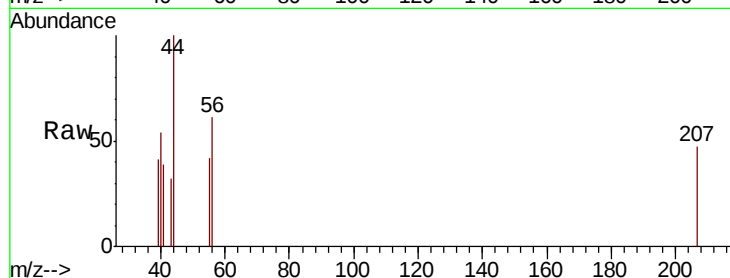
ClientSampleId :

Tot Ion: 56 Resp: 235

Ion Ratio Lower Upper

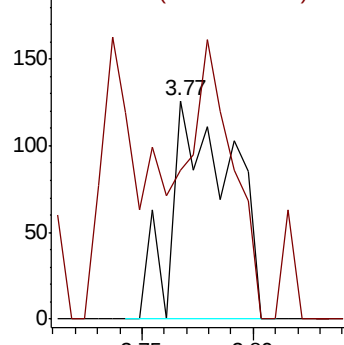
56 100

55 95.7 56.7 85.1#

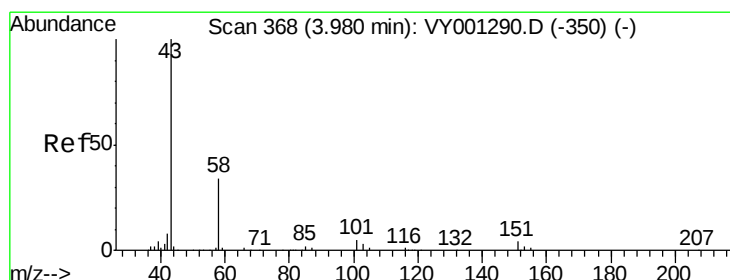
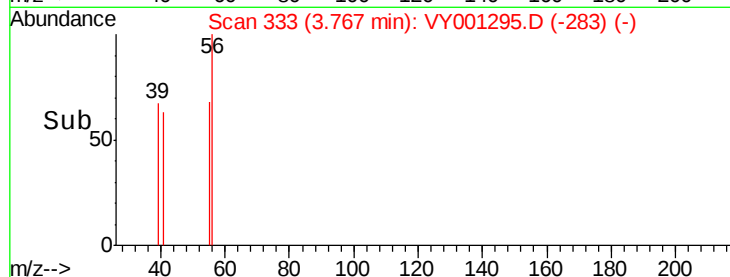


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



Time-->



#16

Acetone

Concen: 12.720 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.00 min

Lab File: VY001295.D

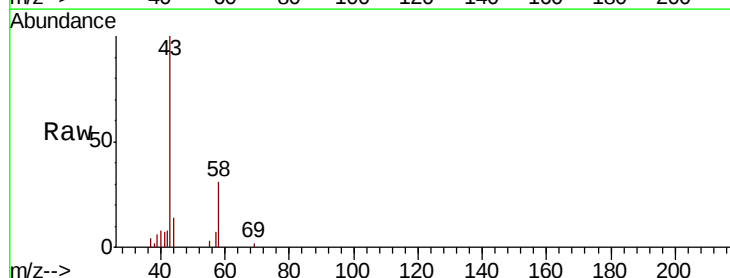
Acq: 20 Jan 2020 15:04

Tgt Ion: 43 Resp: 7307

Ion Ratio Lower Upper

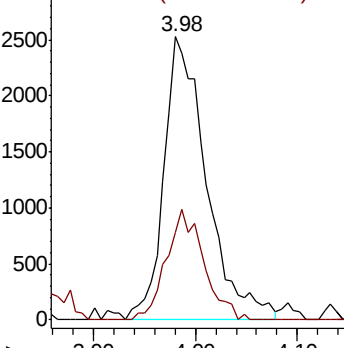
43 100

58 30.8 25.8 38.6

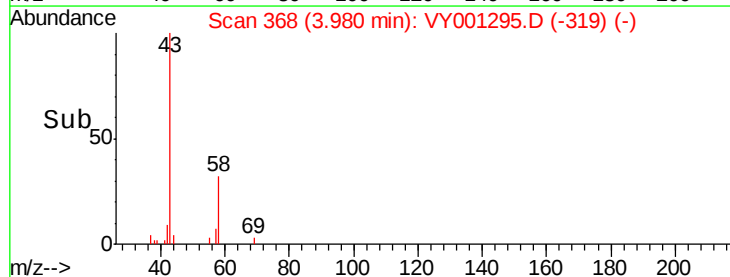


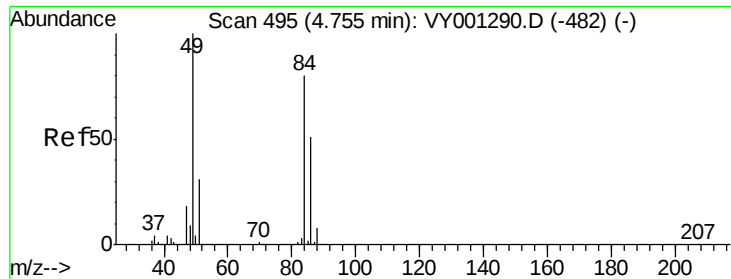
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



Time-->

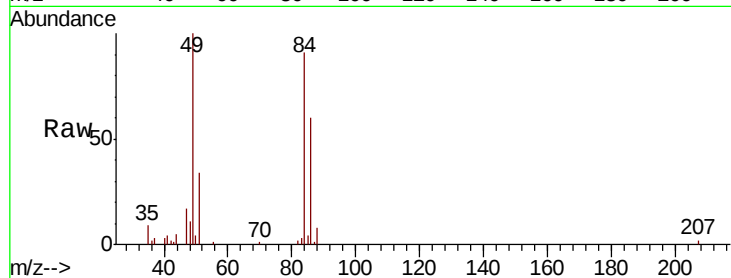




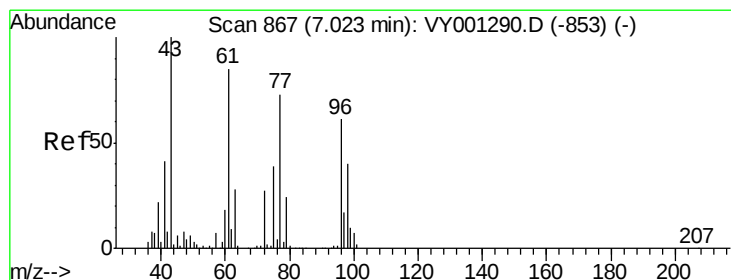
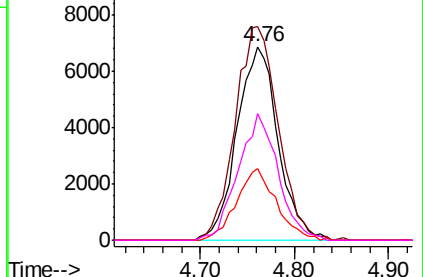
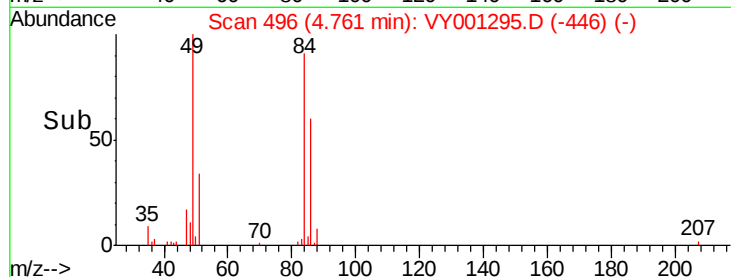
#20
Methvlene Chloride
Concen: 2.537 ug/l
RT: 4.76 min Scan# 496
Delta R.T. 0.01 min
Lab File: VY001295.D
Acq: 20 Jan 2020 15:04

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:	84	Resp:	20828
Ion	Ratio	Lower	Upper
84	100		
49	110.2	93.8	140.6
51	37.2	29.9	44.9
86	65.5	52.6	78.8

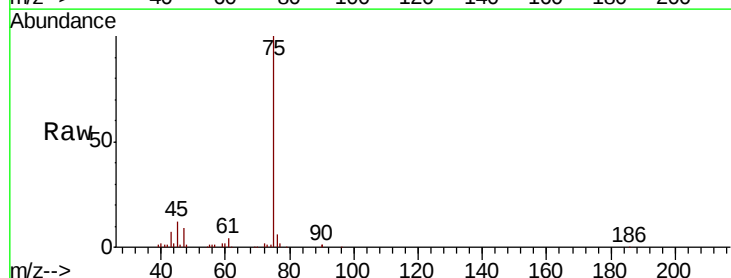


Abundance Ion 83.90 (83.60 to 84.60): VY0
Ion 48.90 (48.60 to 49.60): VY0
Ion 50.90 (50.60 to 51.60): VY0
Ion 85.90 (85.60 to 86.60): VY0

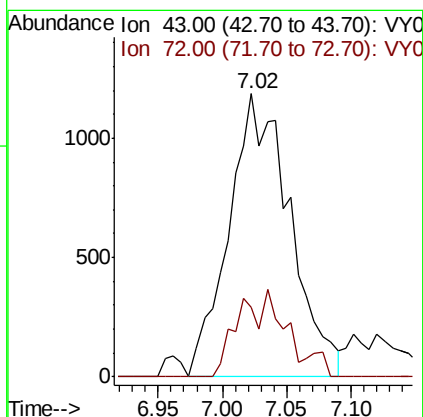
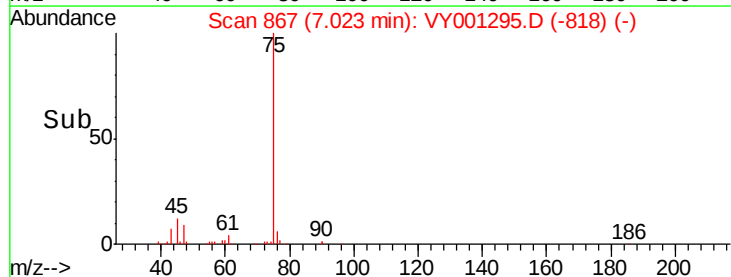


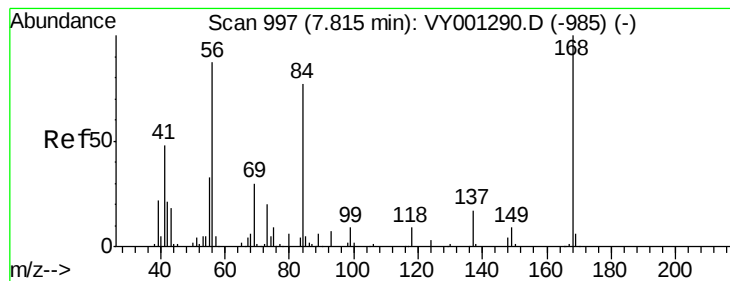
#25
2-Butanone
Concen: 4.357 ug/l
RT: 7.02 min Scan# 867
Delta R.T. 0.00 min
Lab File: VY001295.D
Acq: 20 Jan 2020 15:04

Tgt Ion:	43	Resp:	3895
Ion	Ratio	Lower	Upper
43	100		
72	24.5	22.2	33.2



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 72.00 (71.70 to 72.70): VY0





#31

Cyclohexane

Concen: 1.018 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

Instrument :
MSVOA_Y
ClientSampled :

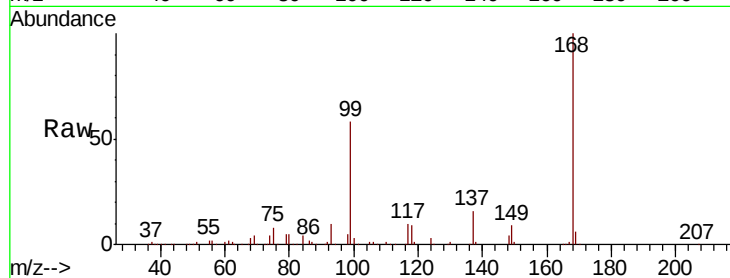
Tot Ion: 56 Resp: 4870

Ion Ratio Lower Upper

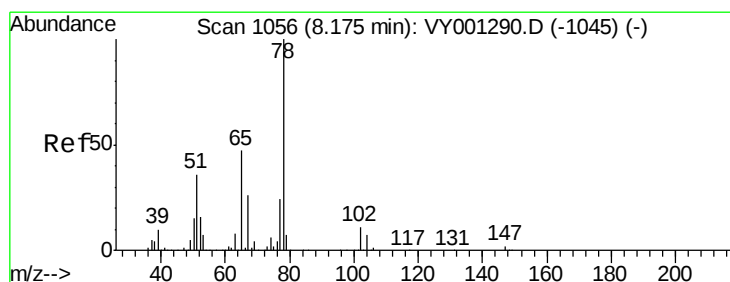
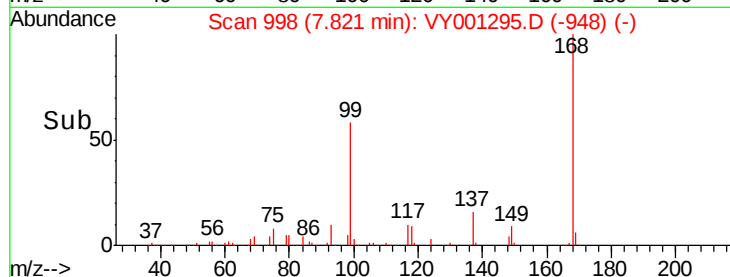
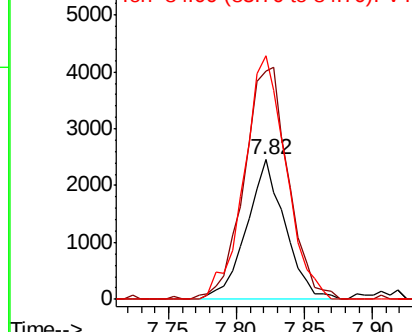
56 100

69 163.1 27.8 41.8#

84 174.4 68.9 103.3#



Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 54.893 ug/l

RT: 8.17 min Scan# 1056

Delta R.T. 0.00 min

Lab File: VY001295.D

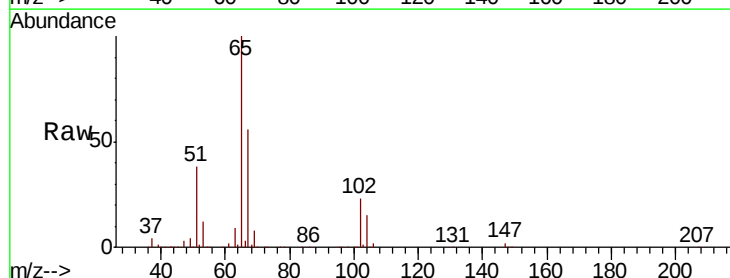
Acq: 20 Jan 2020 15:04

Tgt Ion: 65 Resp: 135780

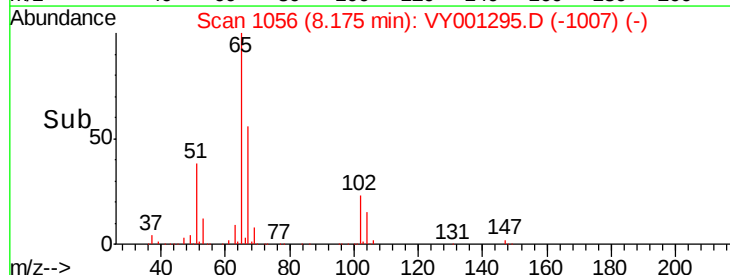
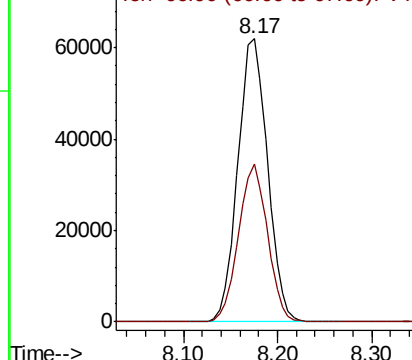
Ion Ratio Lower Upper

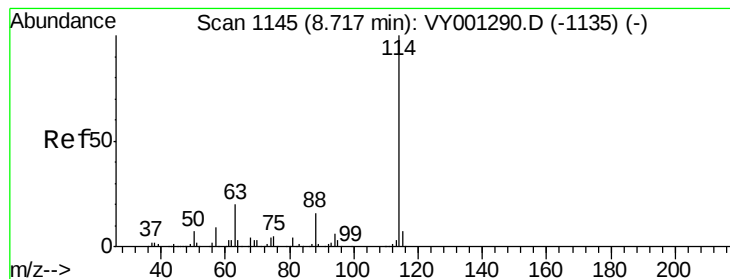
65 100

67 54.5 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.72 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

Instrument :

MSVOA_Y

ClientSampleId :

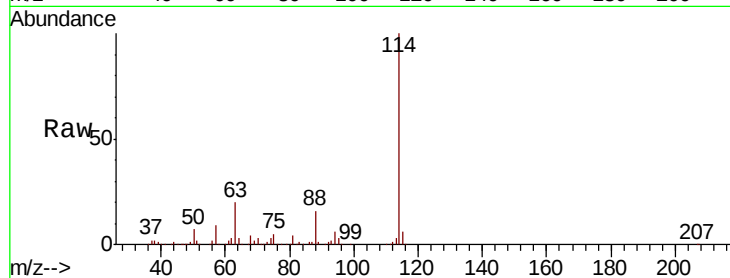
Tot Ion:114 Resp: 434824

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

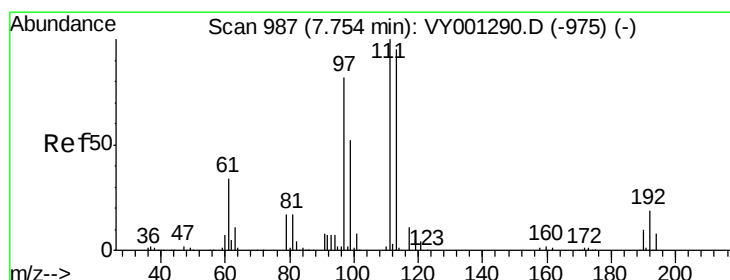
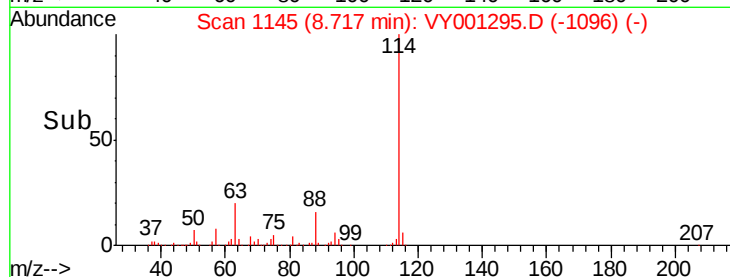
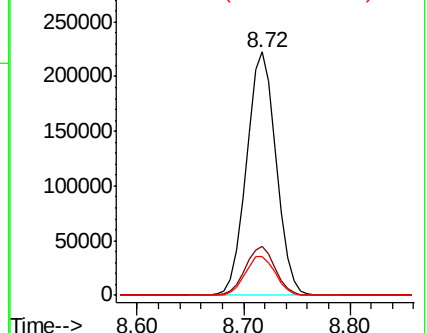
88 16.0 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 51.260 ug/l

RT: 7.75 min Scan# 987

Delta R.T. 0.00 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

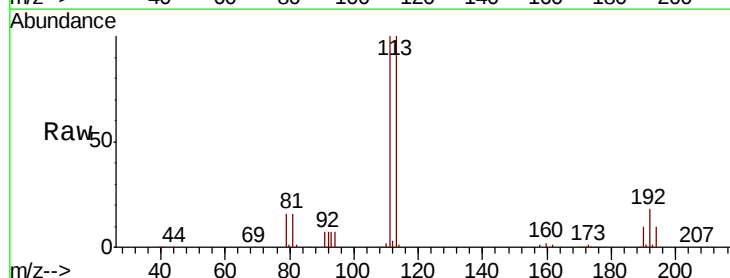
Tgt Ion:113 Resp: 130501

Ion Ratio Lower Upper

113 100

111 103.2 82.9 124.3

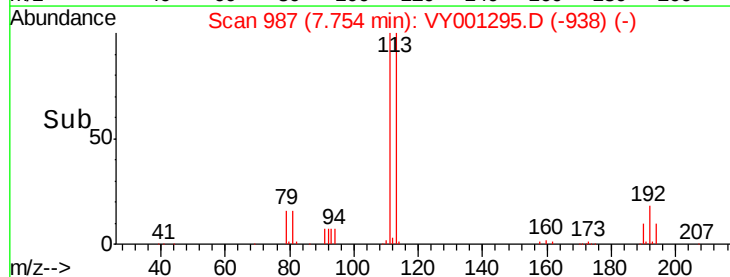
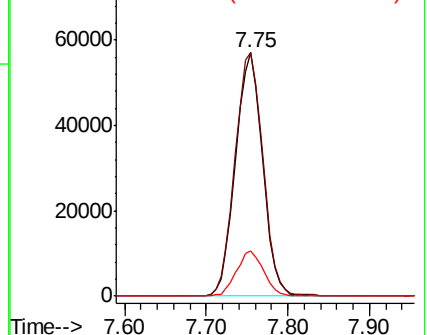
192 18.4 15.4 23.2

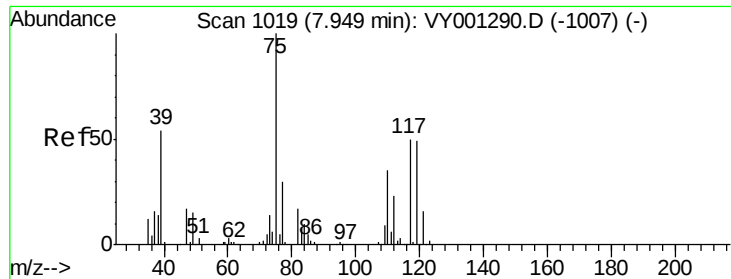


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

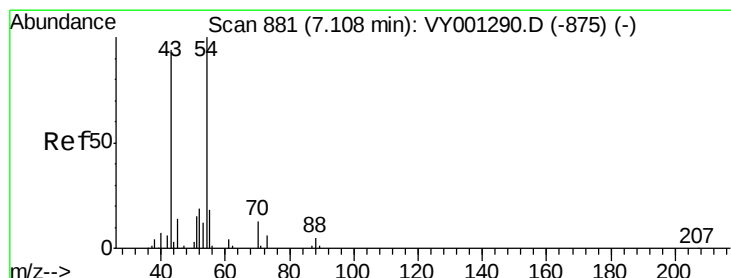
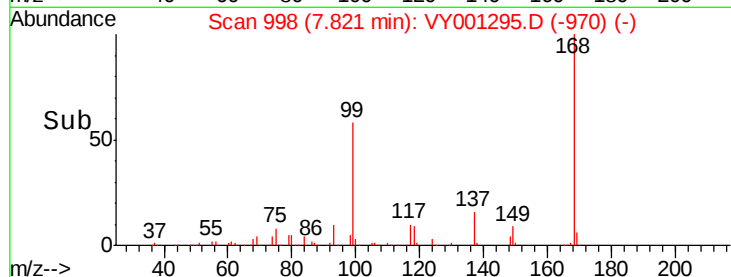
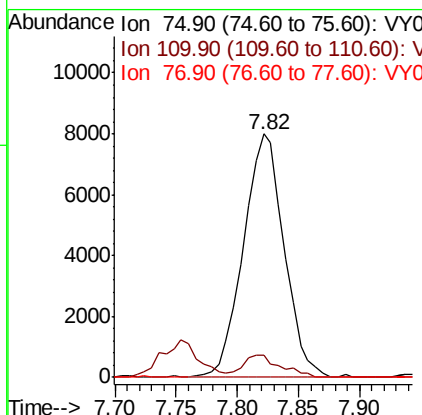
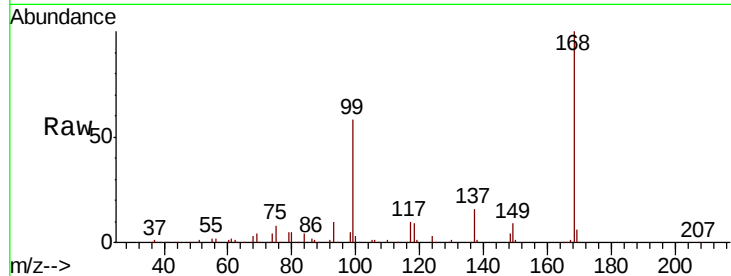




#36
 1,1-Dichloropropene
 Concen: 4.669 ug/l
 RT: 7.82 min Scan# 998
 Delta R.T. -0.13 min
 Lab File: VY001295.D
 Acq: 20 Jan 2020 15:04

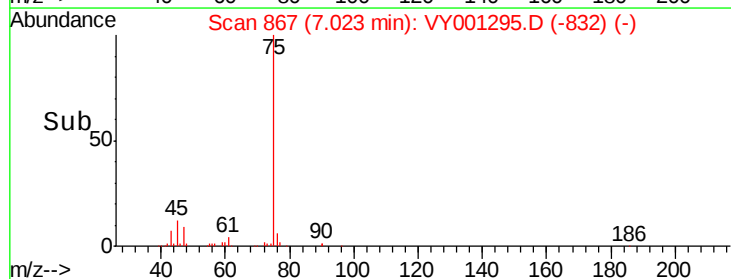
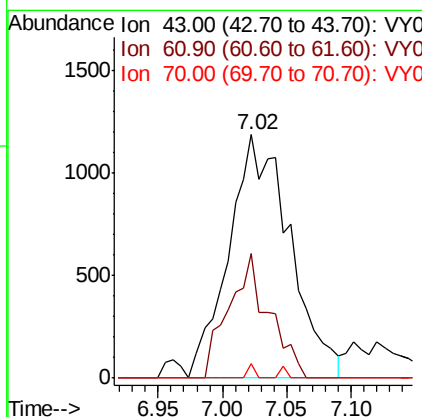
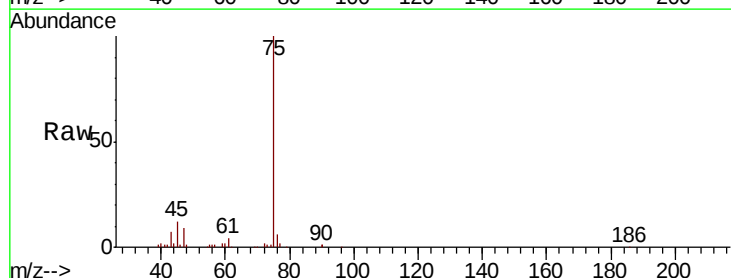
Instrument :
 MSVOA_Y
 ClientSampled :

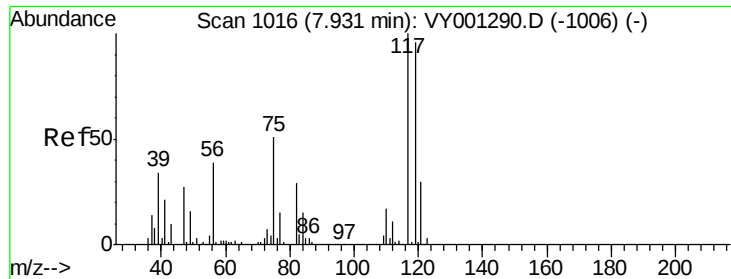
Tot Ion	75	Resp	18503
Ion Ratio	100	Lower	Upper
75	100		
110	8.5	18.3	54.8#
77	0.0	25.1	37.7#



#37
 Ethyl Acetate
 Concen: 1.675 ug/l
 RT: 7.02 min Scan# 867
 Delta R.T. -0.09 min
 Lab File: VY001295.D
 Acq: 20 Jan 2020 15:04

Tgt Ion	43	Resp	3895
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
61	34.0	11.1	16.7#
70	0.6	9.7	14.5#

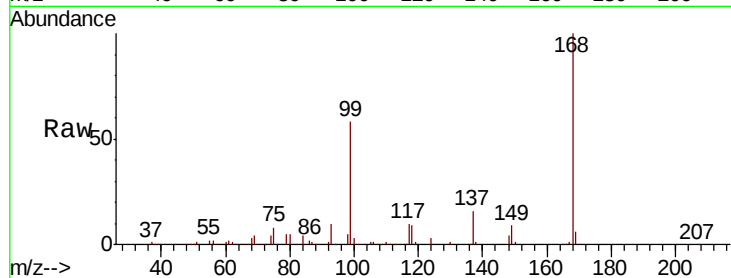




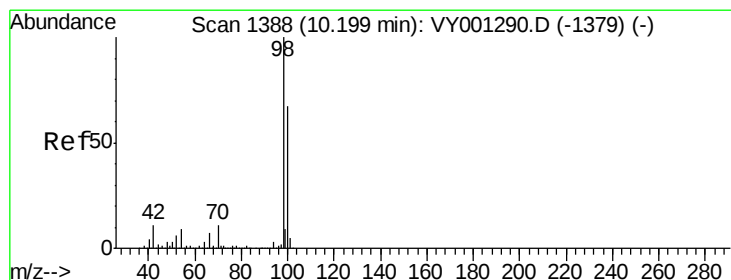
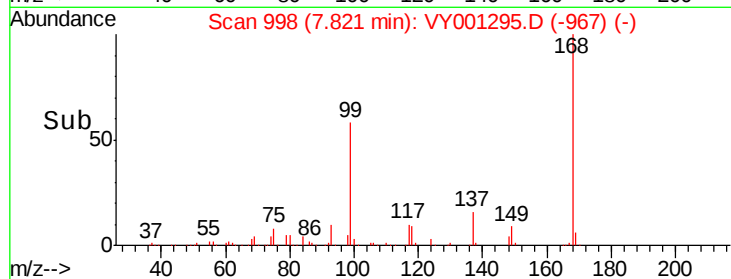
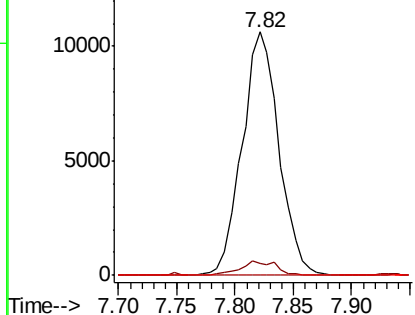
#38
Carbon Tetrachloride
Concen: 6.429 ug/l
RT: 7.82 min Scan# 998
Delta R.T. -0.11 min
Lab File: VY001295.D
Acq: 20 Jan 2020 15:04

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 23351
Ion Ratio Lower Upper
117 100
119 5.1 78.3 117.5#
121 0.0 23.5 35.3#

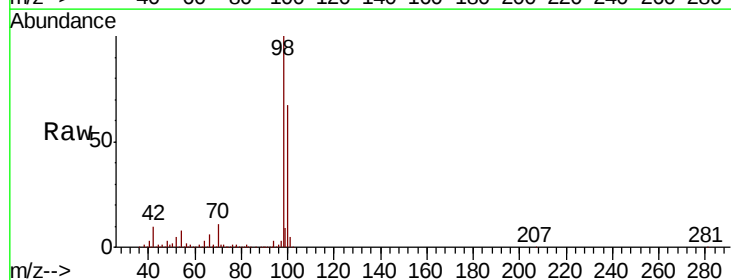


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

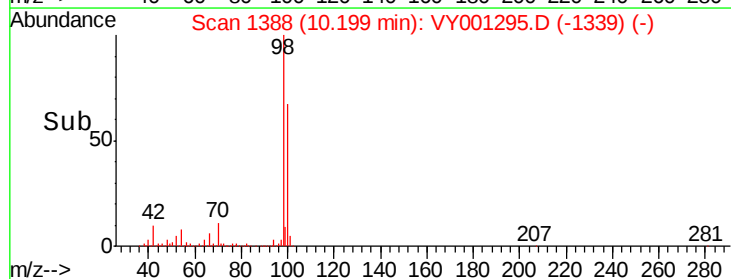
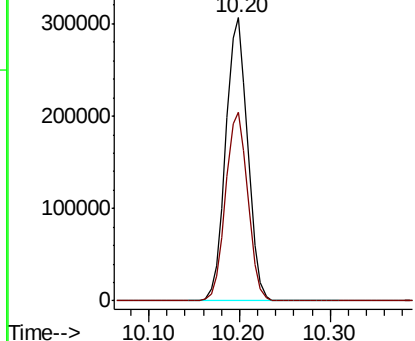


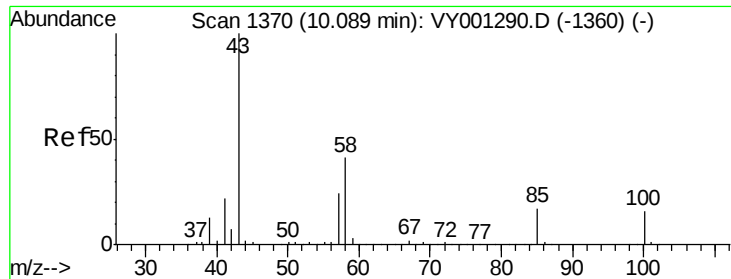
#50
Toluene-d8
Concen: 52.374 ug/l
RT: 10.20 min Scan# 1388
Delta R.T. 0.00 min
Lab File: VY001295.D
Acq: 20 Jan 2020 15:04

Tgt Ion: 98 Resp: 513774
Ion Ratio Lower Upper
98 100
100 67.3 53.1 79.7



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

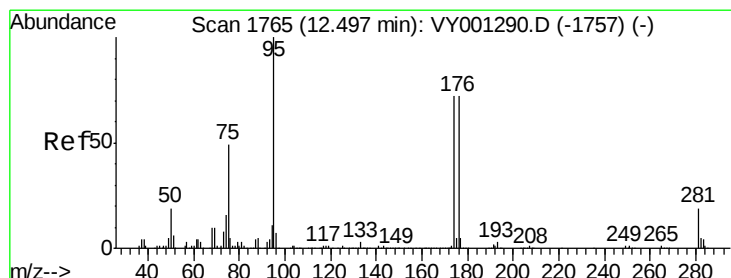
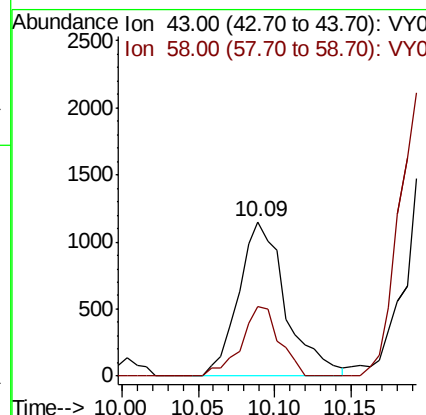
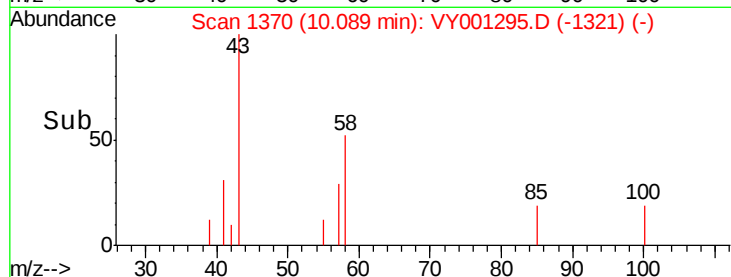
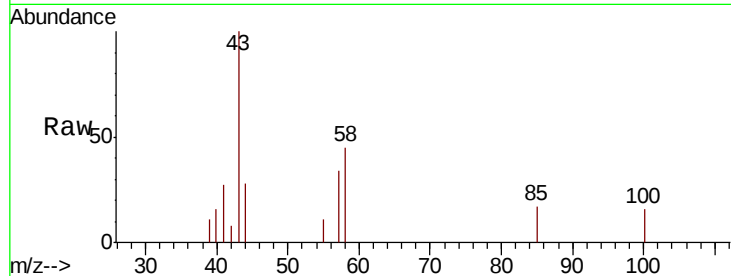




#51
4-Methyl-2-Pentanone
Concen: 1.092 ug/l
RT: 10.09 min Scan# 1370
Delta R.T. 0.00 min
Lab File: VY001295.D
Acq: 20 Jan 2020 15:04

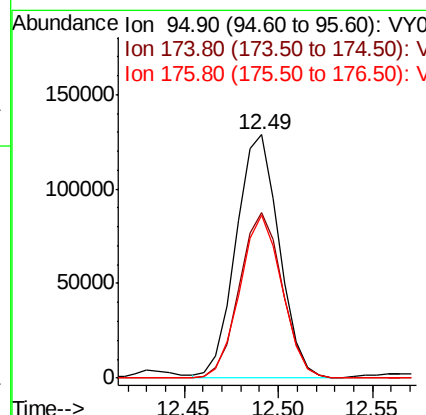
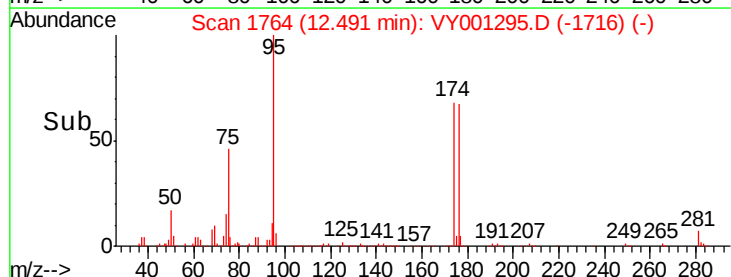
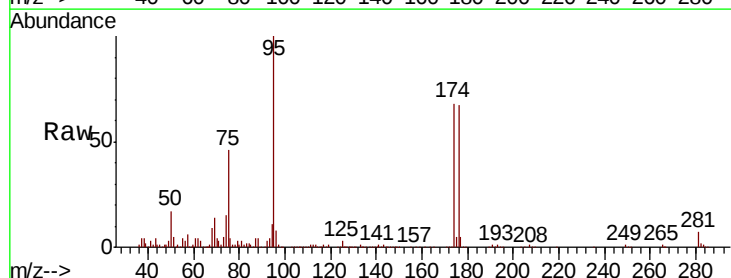
Instrument :
MSVOA_Y
ClientSampled :

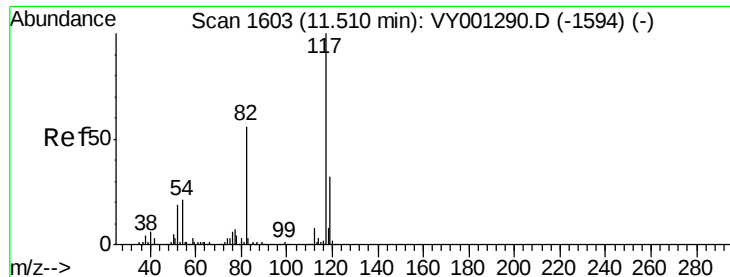
Tot Ion: 43 Resp: 2464
Ion Ratio Lower Upper
43 100
58 36.4 32.3 48.5



#62
4-Bromofluorobenzene
Concen: 50.338 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. -0.01 min
Lab File: VY001295.D
Acq: 20 Jan 2020 15:04

Tgt Ion: 95 Resp: 201882
Ion Ratio Lower Upper
95 100
174 67.9 0.0 143.2
176 66.2 0.0 136.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.50 min Scan# 1602

Delta R.T. -0.01 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

Instrument :

MSVOA_Y

ClientSampleId :

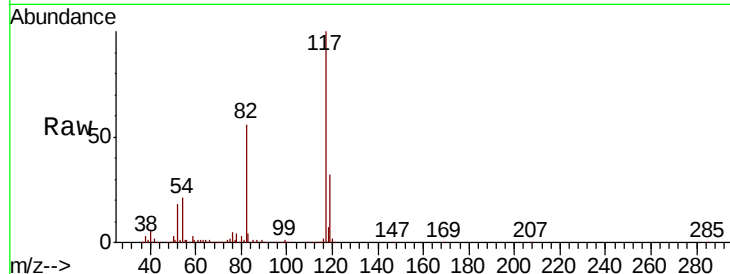
Tot Ion:117 Resp: 389611

Ion Ratio Lower Upper

117 100

82 55.9 44.9 67.3

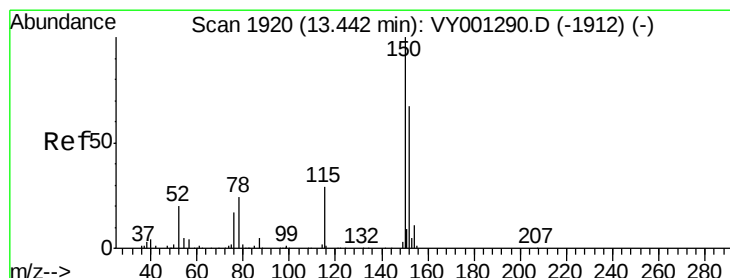
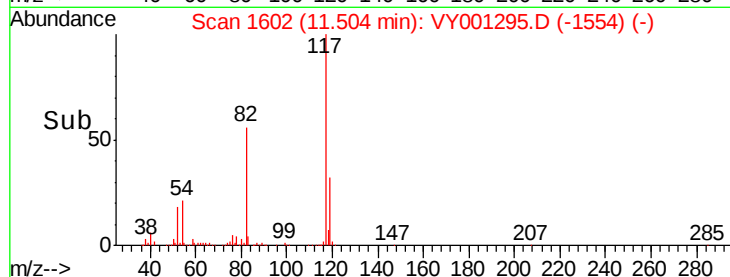
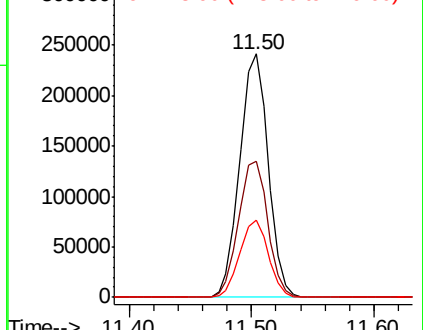
119 31.5 25.7 38.5



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: 13.44 min Scan# 1919

Delta R.T. -0.01 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

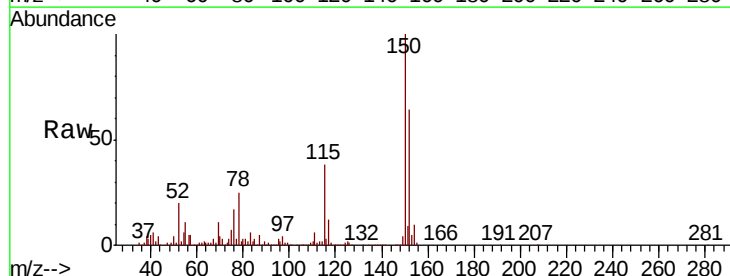
Tgt Ion:152 Resp: 189918

Ion Ratio Lower Upper

152 100

115 60.5 30.9 92.5

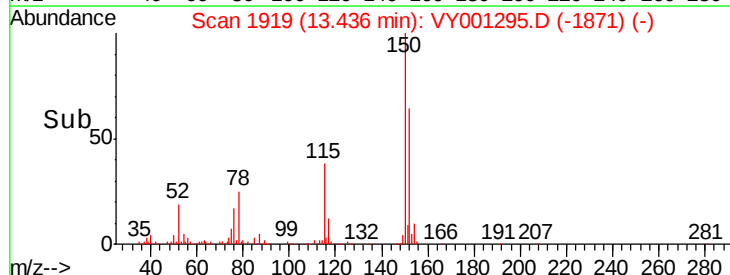
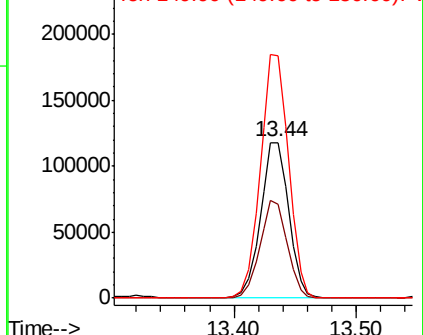
150 155.8 0.0 346.8

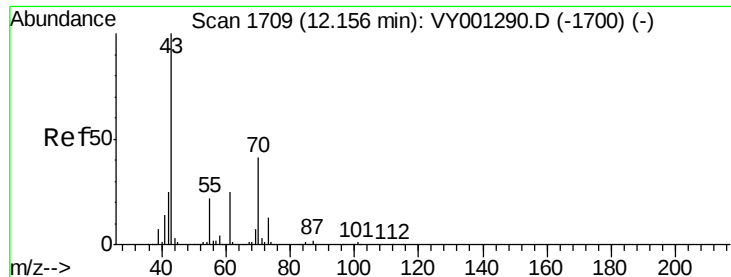


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 13.854 ug/l

RT: 12.24 min Scan# 1723

Delta R.T. 0.09 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 43 Resp: 61728

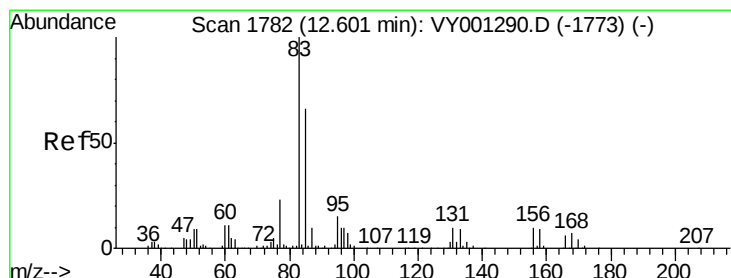
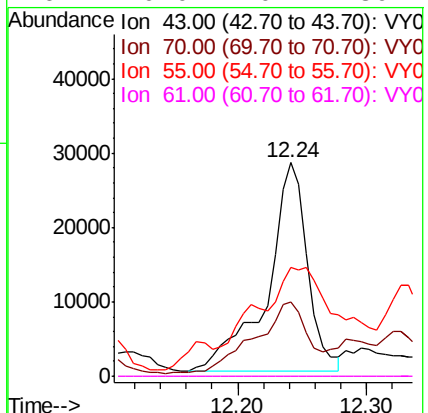
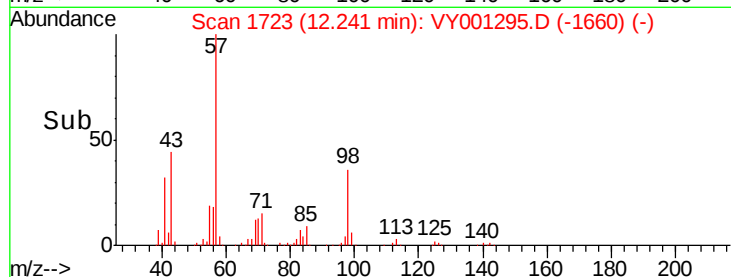
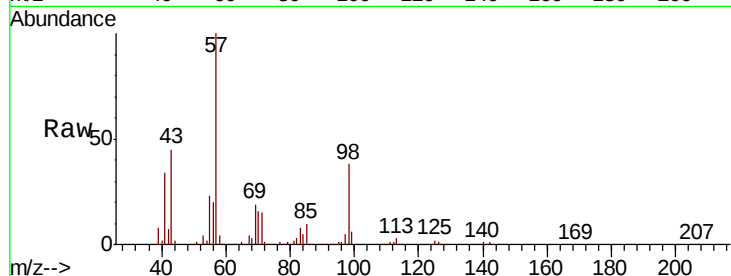
Ion Ratio Lower Upper

43 100

70 45.3 35.0 52.6

55 94.8 18.4 27.6#

61 0.0 20.1 30.1#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.390 ug/l

RT: 12.56 min Scan# 1776

Delta R.T. -0.04 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

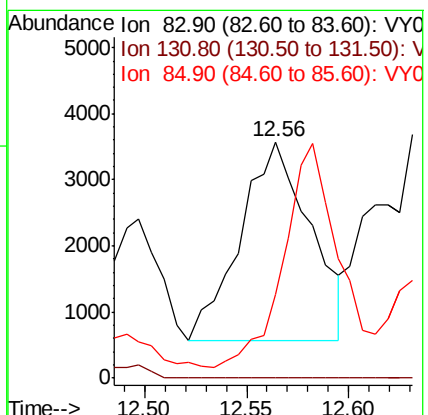
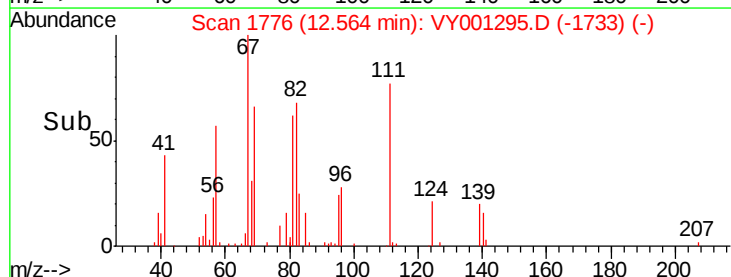
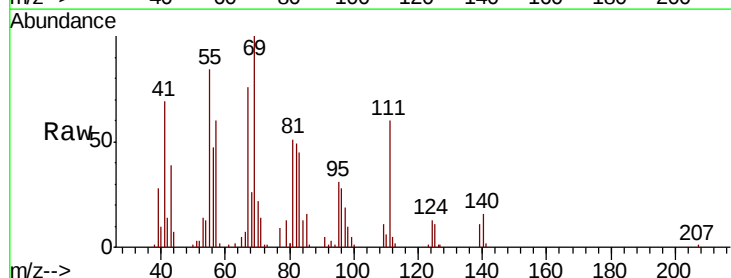
Tgt Ion: 83 Resp: 7178

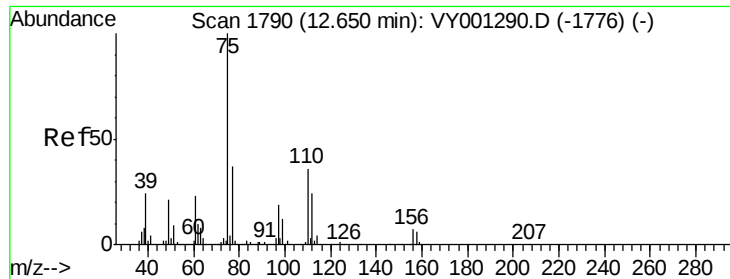
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 87.3 32.2 96.6





#76

1,2,3-Trichloropropane

Concen: 45.914 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.16 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

Instrument :

MSVOA_Y

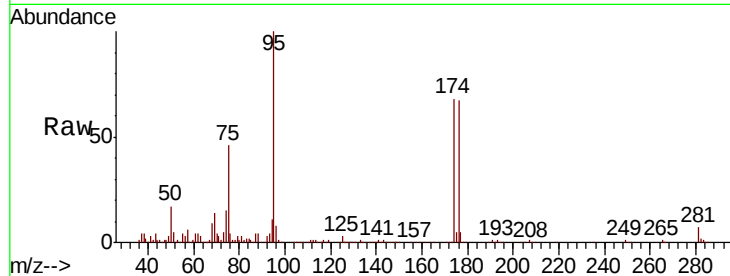
ClientSampleId :

Tot Ion: 75 Resp: 93348

Ion Ratio Lower Upper

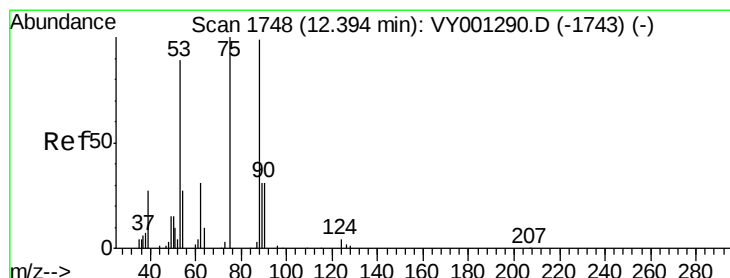
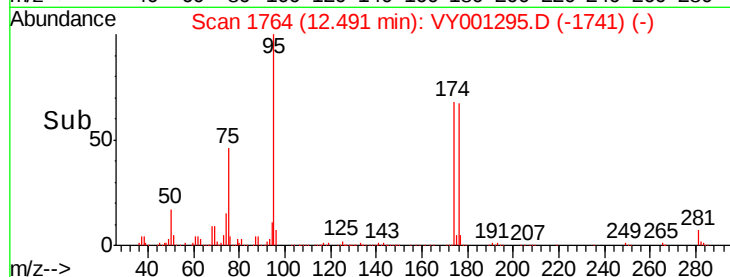
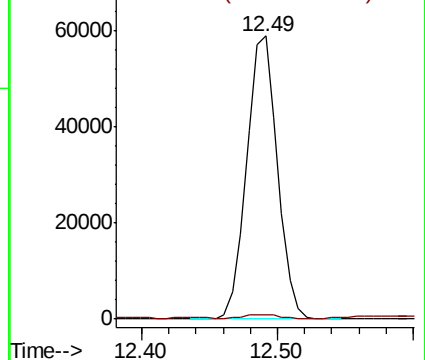
75 100

77 2.2 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: 77.861 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

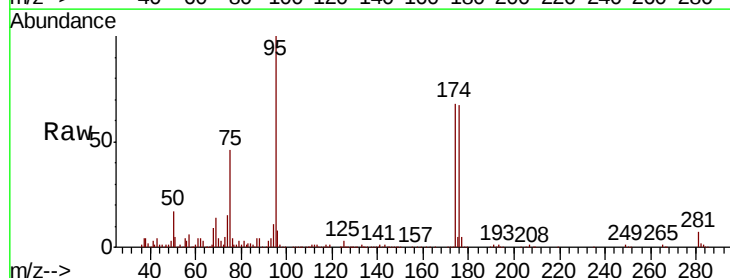
Tgt Ion: 75 Resp: 93348

Ion Ratio Lower Upper

75 100

53 1.3 69.4 104.2#

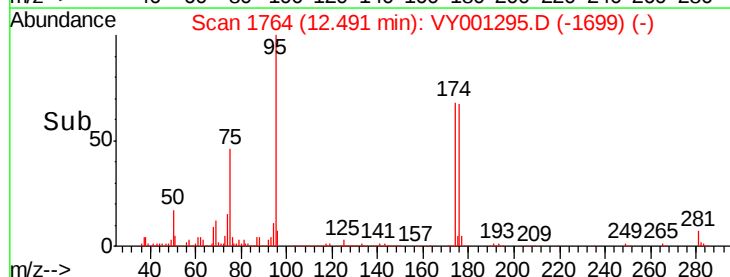
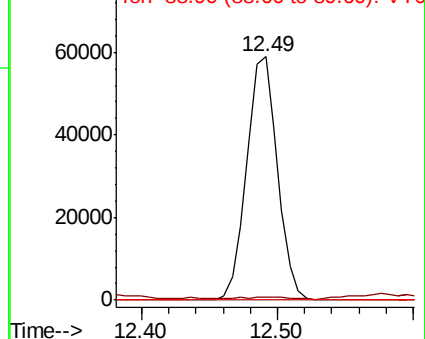
89 0.1 0.0 0.0#

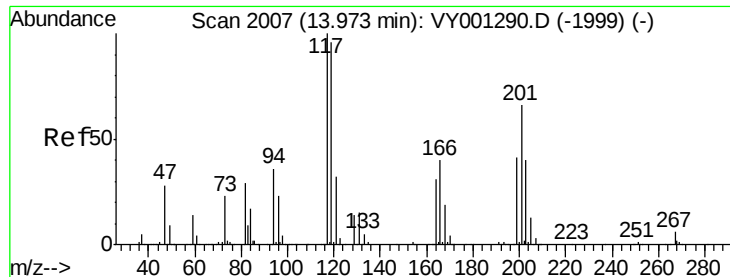


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#90

Hexachloroethane

Concen: 1.214 ug/l

RT: 13.98 min Scan# 2008

Delta R.T. 0.01 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

Instrument :

MSVOA_Y

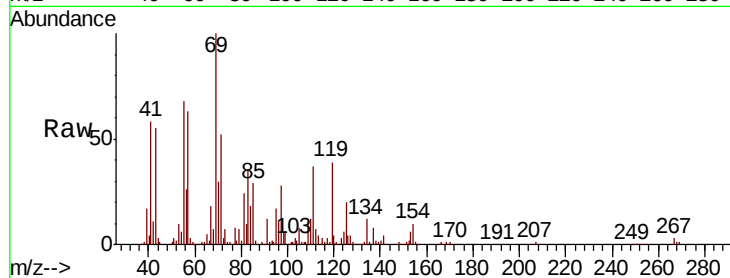
ClientSampled :

Tot Ion:117 Resp: 2965

Ion Ratio Lower Upper

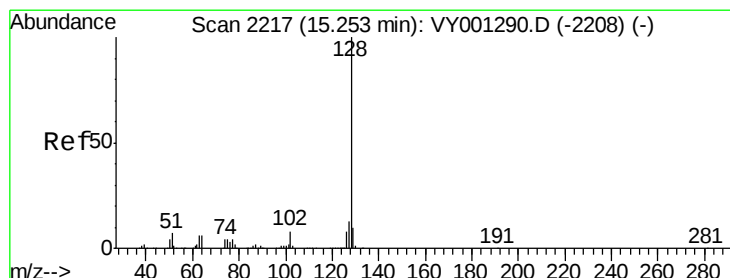
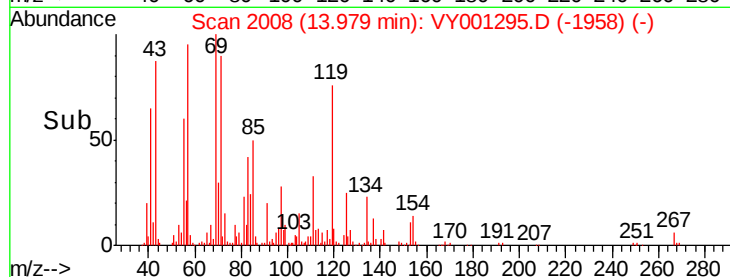
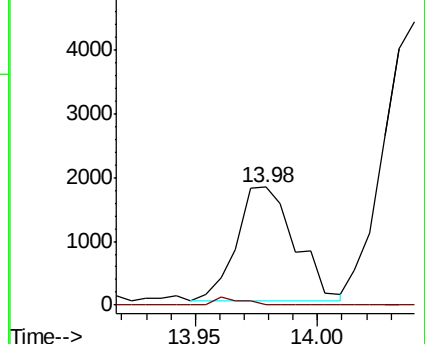
117 100

201 3.2 35.4 106.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.151 ug/l

RT: 15.25 min Scan# 2216

Delta R.T. -0.01 min

Lab File: VY001295.D

Acq: 20 Jan 2020 15:04

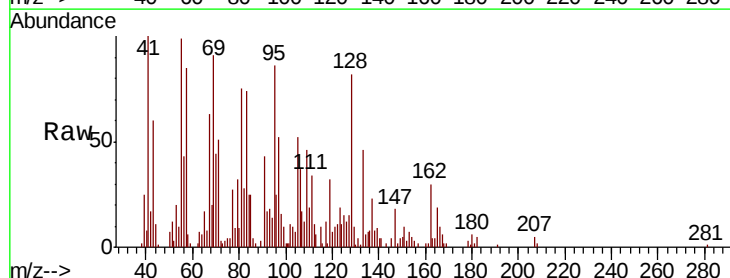
Tgt Ion:128 Resp: 9786

Ion Ratio Lower Upper

128 100

127 28.1 10.2 15.4#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

