

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY021220\
 Data File : VY001619.D
 Acq On : 12 Feb 2020 18:42
 Operator : SY/MD
 Sample : VIAL TEST-04
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 13 07:46:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y020420S.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 04 15:10:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	166321	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.71	114	303453	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	271235	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	123466	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	99824	59.61	ug/l	0.00
Spiked Amount			Recovery	=	119.22%	
35) Dibromofluoromethane	7.75	113	88263	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	
50) Toluene-d8	10.19	98	362568	54.76	ug/l	0.00
Spiked Amount			Recovery	=	109.52%	
62) 4-Bromofluorobenzene	12.49	95	125937	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	

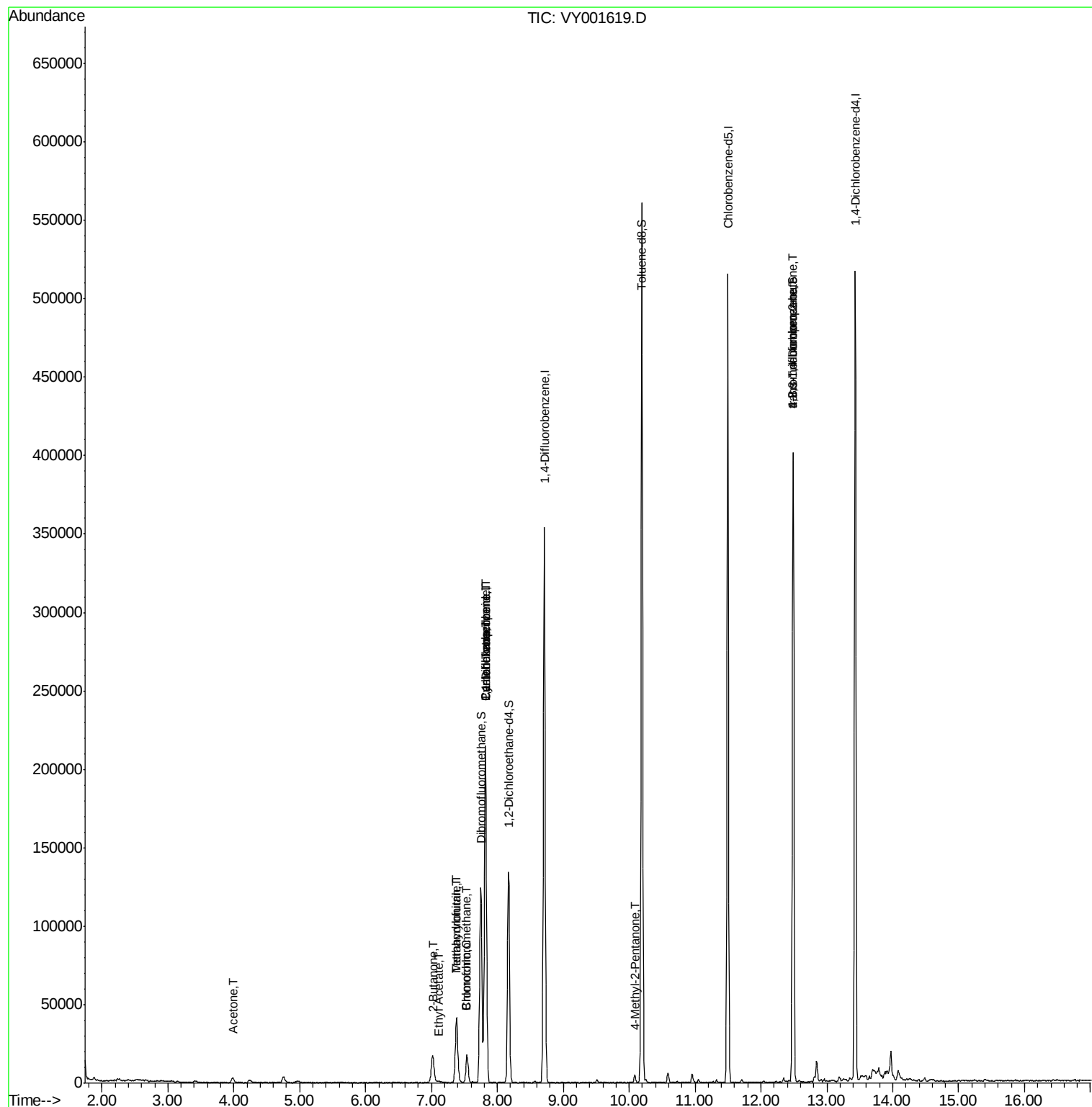
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.98	59	1591	Below Cal	#	76
16) Acetone	3.99	43	5677	11.720	ug/l	95
20) Methylene Chloride	4.75	84	2840	Below Cal	#	92
25) 2-Butanone	7.03	43	7948	12.647	ug/l	90
28) Bromochloromethane	7.54	49	1443	1.329	ug/l #	11
29) Tetrahydrofuran	7.38	42	35241	93.561	ug/l	95
30) Chloroform	7.54	83	17151	5.312	ug/l	96
31) Cyclohexane	7.82	56	3779	1.159	ug/l #	18
36) 1,1-Dichloropropene	7.82	75	13413	4.832	ug/l #	49
37) Ethyl Acetate	7.11	43	1419	1.056	ug/l #	84
38) Carbon Tetrachloride	7.82	117	16441	6.121	ug/l #	16
41) Methacrylonitrile	7.38	41	19148	30.743	ug/l #	18
51) 4-Methyl-2-Pentanone	10.08	43	3509	2.678	ug/l	100
76) 1,2,3-Trichloropropane	12.49	75	64359	48.472	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	64359	93.791	ug/l #	16

(#) = 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. 0.01 min

Lab File: VY001619.D

Acq: 12 Feb 2020 18:42

Instrument :

MSVOA_Y

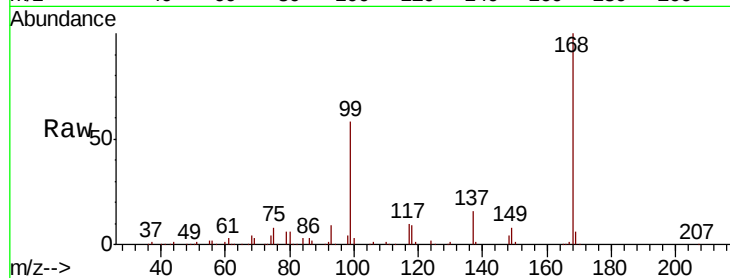
ClientSampled :

Tot Ion:168 Resp: 166321

Ion Ratio Lower Upper

168 100

99 58.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VY001619.D

Ion 98.90 (98.60 to 99.60): VY001619.D

7.82

80000

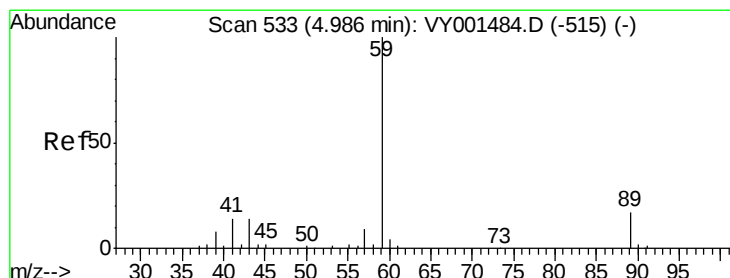
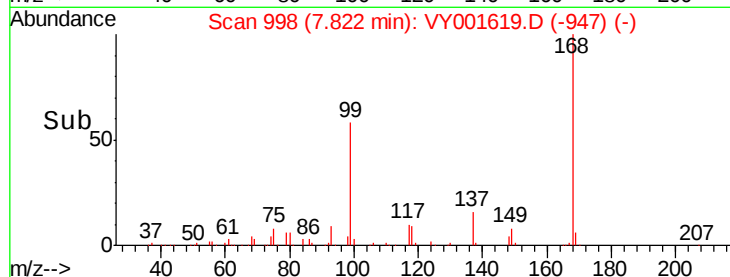
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.98 min Scan# 532

Delta R.T. -0.01 min

Lab File: VY001619.D

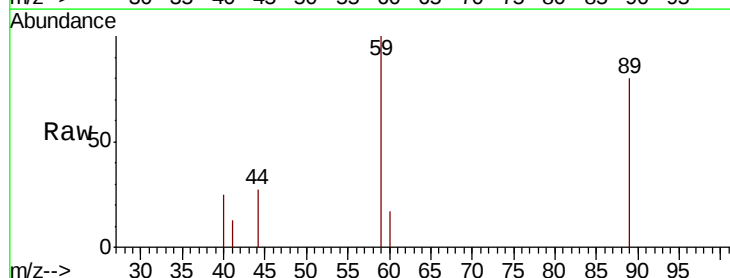
Acq: 12 Feb 2020 18:42

Tgt Ion: 59 Resp: 1591

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VY001619.D

Ion 57.00 (56.70 to 57.70): VY001619.D

4.98

500

400

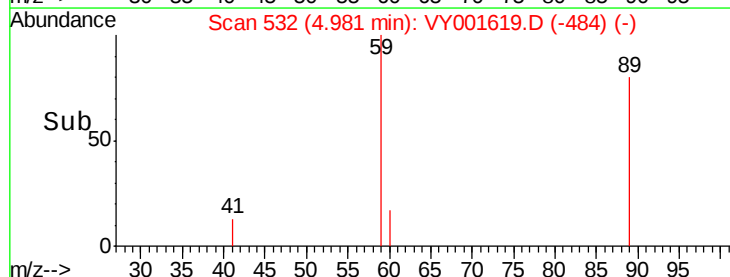
300

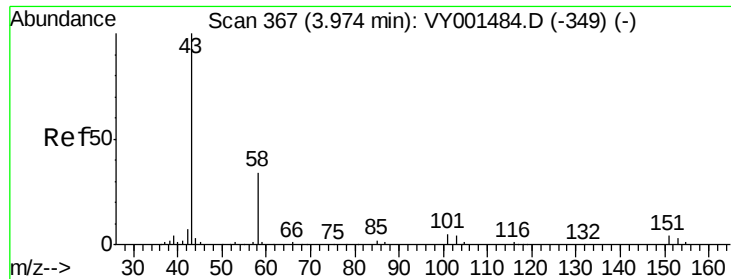
200

100

0

Time-->

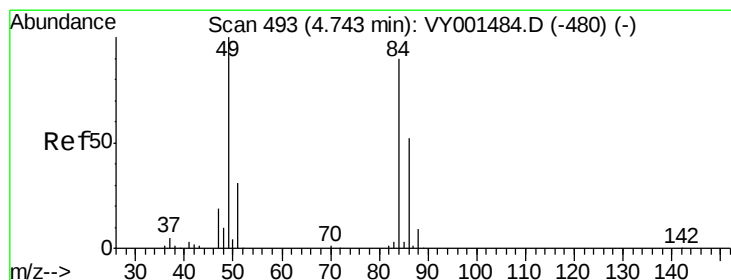
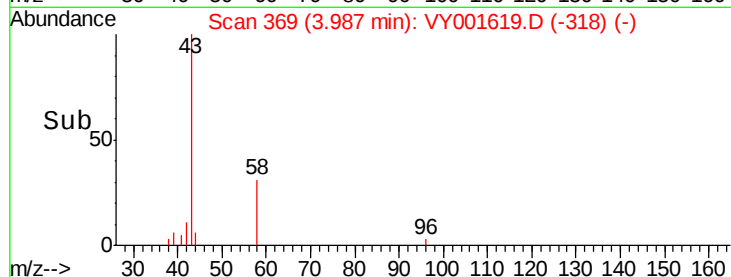
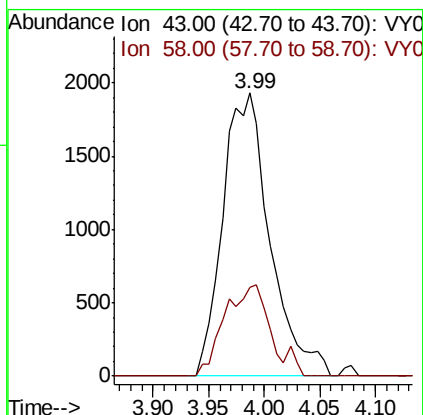
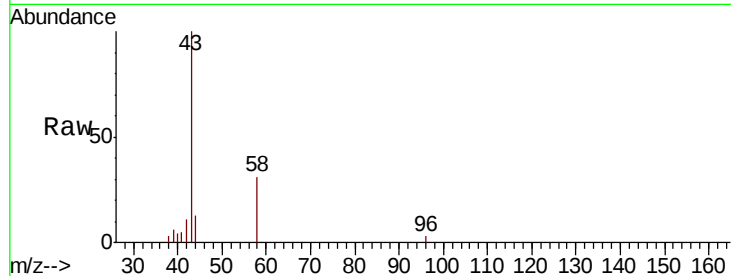




#16
Acetone
Concen: 11.720 ug/l
RT: 3.99 min Scan# 369
Delta R.T. 0.01 min
Lab File: VY001619.D
Acq: 12 Feb 2020 18:42

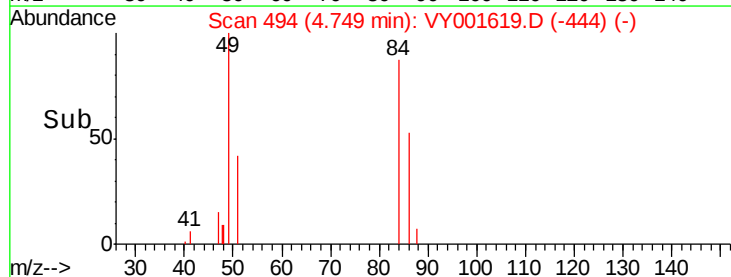
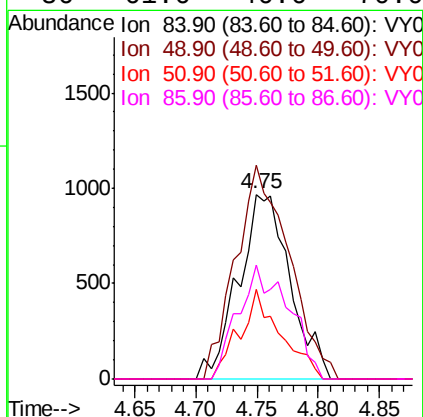
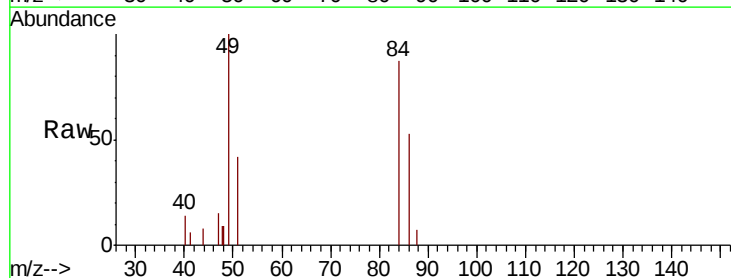
Instrument :
MSVOA_Y
ClientSampleId :

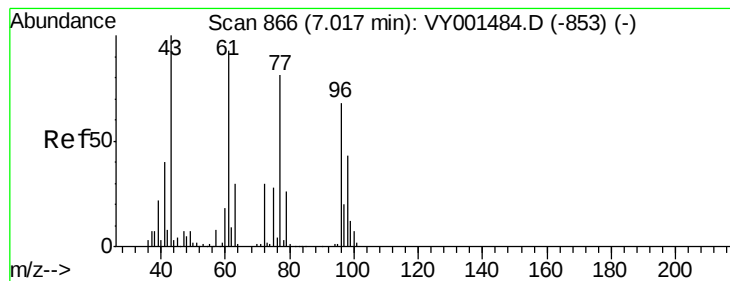
Tot Ion: 43 Resp: 5677
Ion Ratio Lower Upper
43 100
58 31.5 27.5 41.3



#20
Methylene Chloride
Concen: Below Cal
RT: 4.75 min Scan# 494
Delta R.T. 0.01 min
Lab File: VY001619.D
Acq: 12 Feb 2020 18:42

Tgt Ion: 84 Resp: 2840
Ion Ratio Lower Upper
84 100
49 115.6 89.0 133.6
51 48.7 27.4 41.2#
86 61.6 46.6 70.0





#25

2-Butanone

Concen: 12.647 ug/l

RT: 7.03 min Scan# 868

Delta R.T. 0.01 min

Lab File: VY001619.D

Acq: 12 Feb 2020 18:42

Instrument :

MSVOA_Y

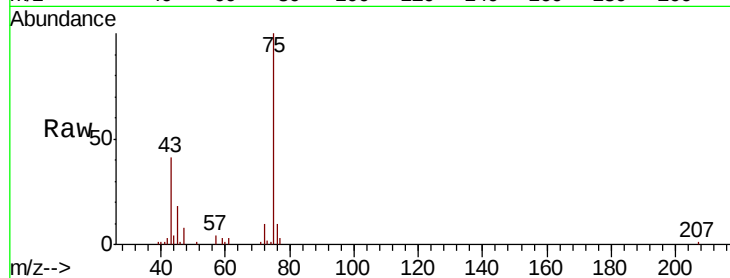
ClientSampled :

Tot Ion: 43 Resp: 7948

Ion Ratio Lower Upper

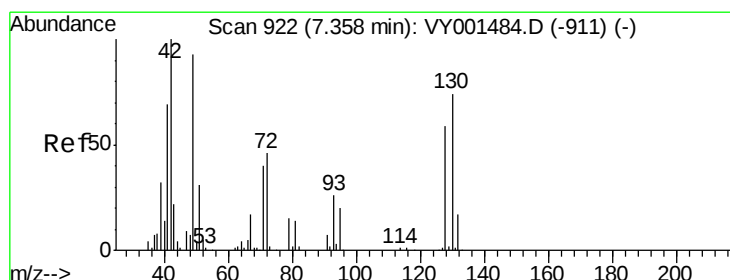
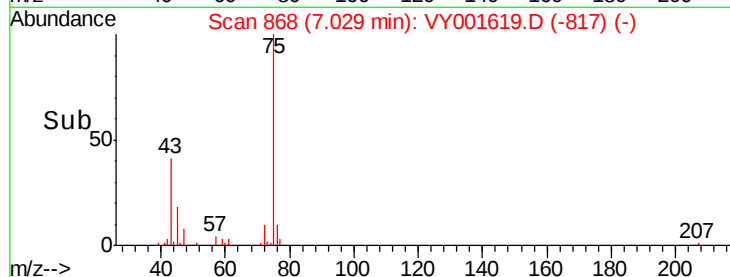
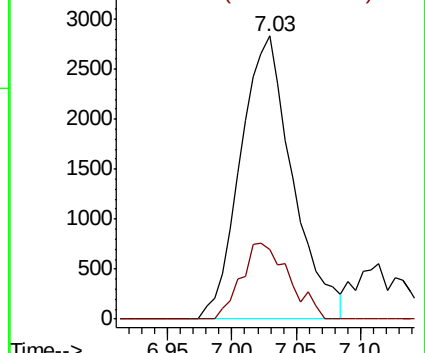
43 100

72 24.5 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#28

Bromochloromethane

Concen: 1.329 ug/l

RT: 7.54 min Scan# 951

Delta R.T. 0.18 min

Lab File: VY001619.D

Acq: 12 Feb 2020 18:42

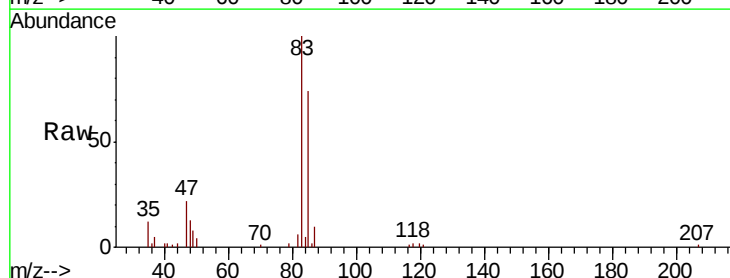
Tgt Ion: 49 Resp: 1443

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.8

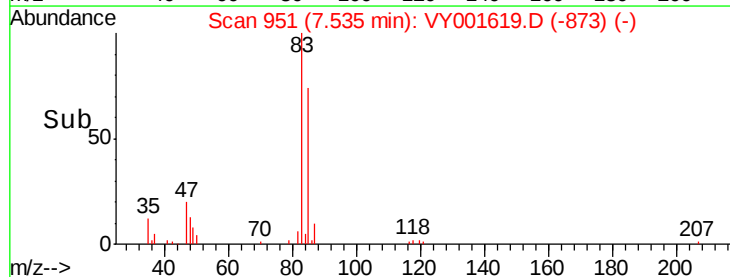
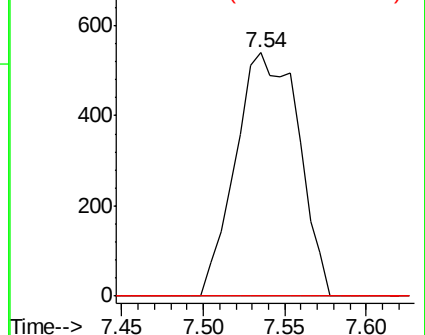
130 0.0 65.4 98.2#

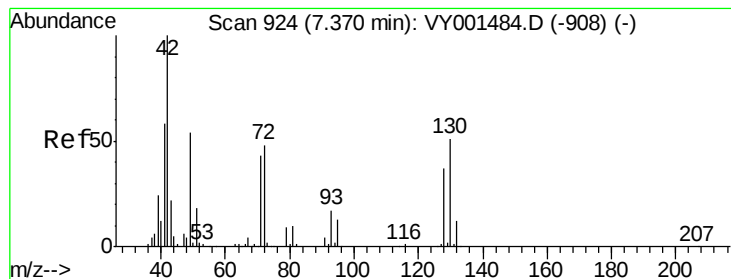


Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 93.561 ug/l

RT: 7.38 min Scan# 925

Delta R.T. 0.01 min

Lab File: VY001619.D

Acq: 12 Feb 2020 18:42

Instrument :
MSVOA_Y
ClientSampleId :

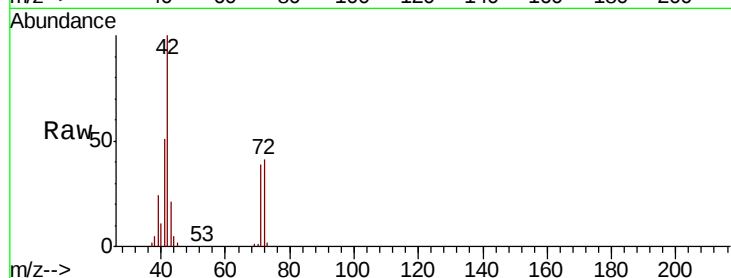
Tot Ion: 42 Resp: 35241

Ion Ratio Lower Upper

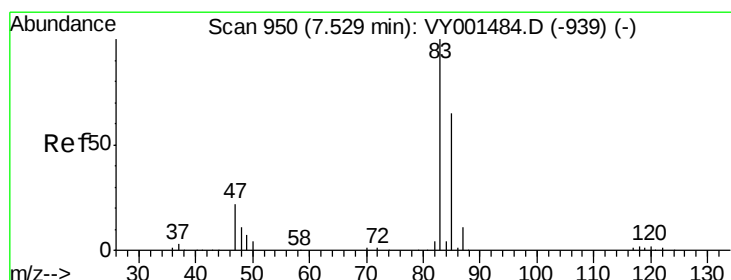
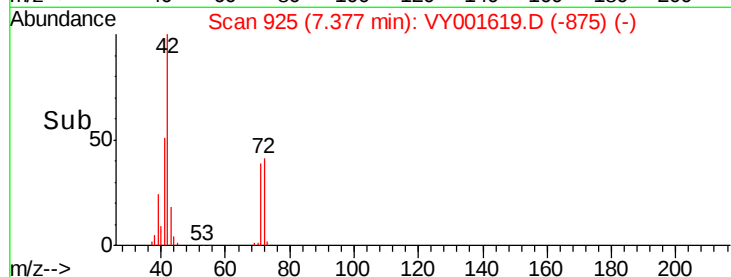
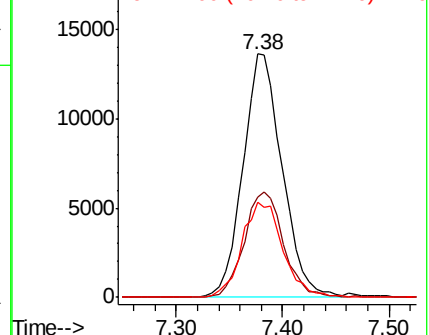
42 100

72 43.4 37.8 56.6

71 40.9 34.8 52.2



Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0



#30

Chloroform

Concen: 5.312 ug/l

RT: 7.54 min Scan# 952

Delta R.T. 0.01 min

Lab File: VY001619.D

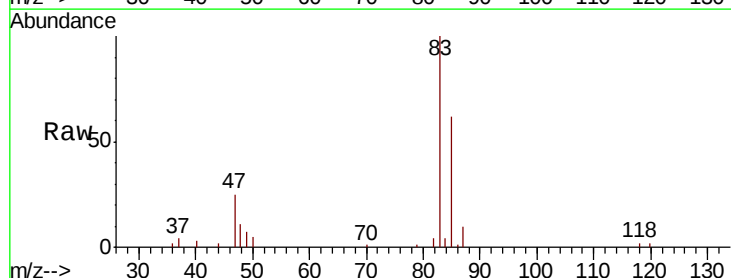
Acq: 12 Feb 2020 18:42

Tgt Ion: 83 Resp: 17151

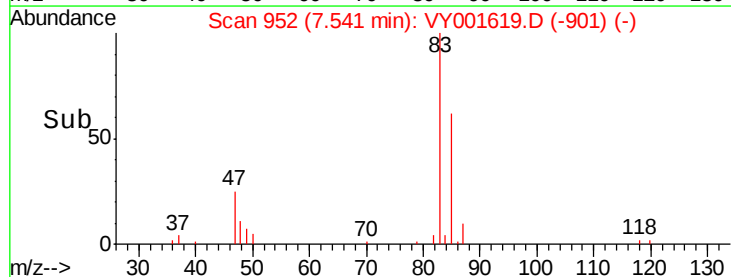
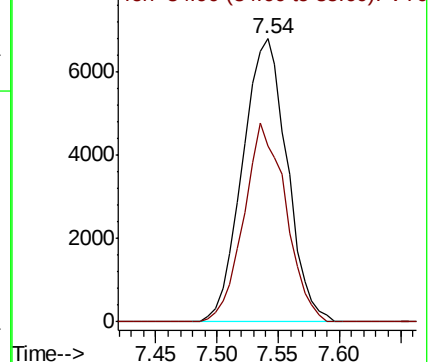
Ion Ratio Lower Upper

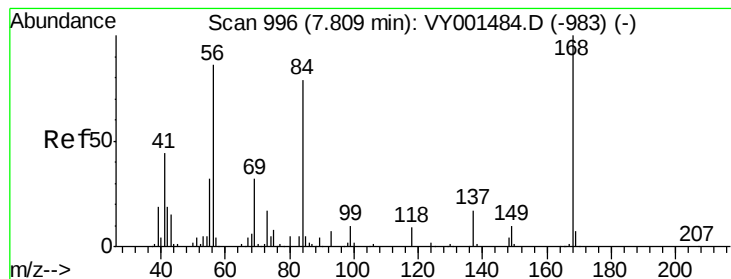
83 100

85 62.1 52.4 78.6



Abundance Ion 82.90 (82.60 to 83.60): VY0
Ion 84.90 (84.60 to 85.60): VY0





#31

Cyclohexane

Concen: 1.159 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY001619.D

Acq: 12 Feb 2020 18:42

Instrument :
MSVOA_Y
ClientSampled :

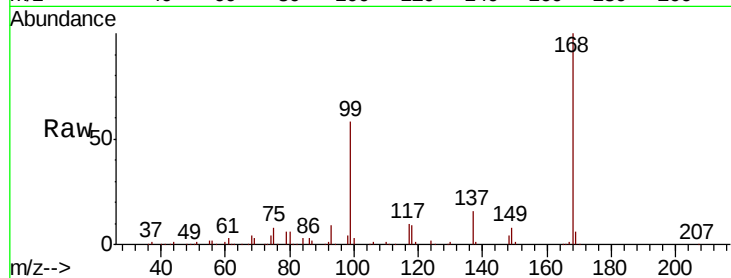
Tot Ion: 56 Resp: 3779

Ion Ratio Lower Upper

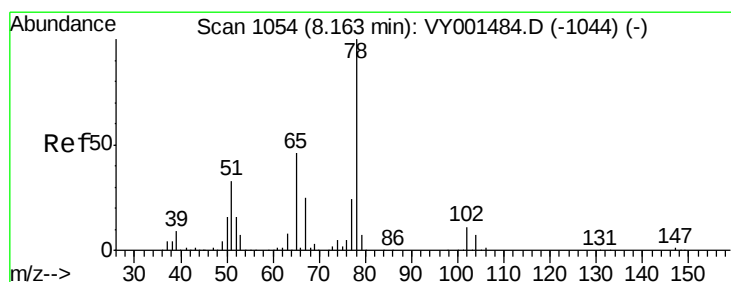
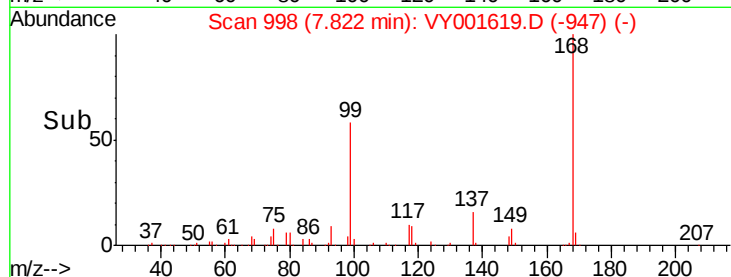
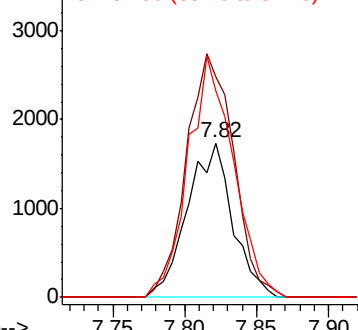
56 100

69 142.9 29.6 44.4#

84 133.9 73.6 110.4#



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: 59.610 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY001619.D

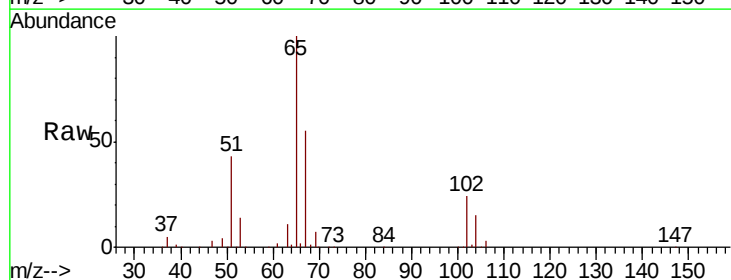
Acq: 12 Feb 2020 18:42

Tgt Ion: 65 Resp: 99824

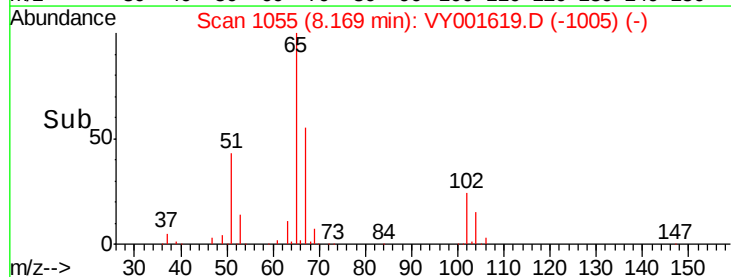
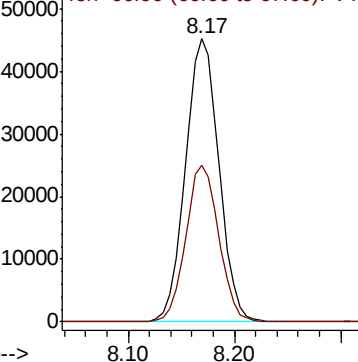
Ion Ratio Lower Upper

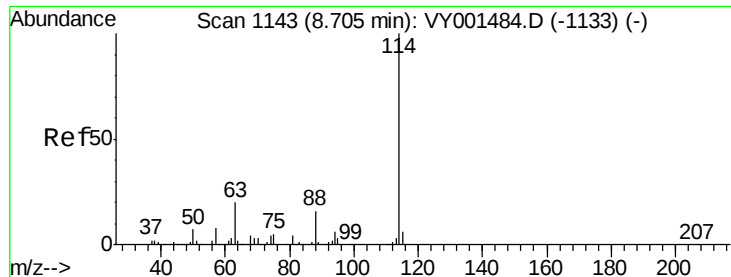
65 100

67 54.6 0.0 108.6



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

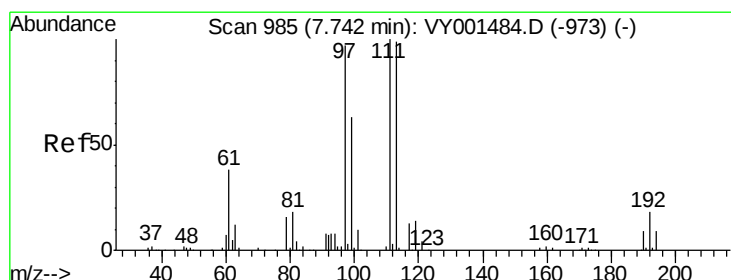
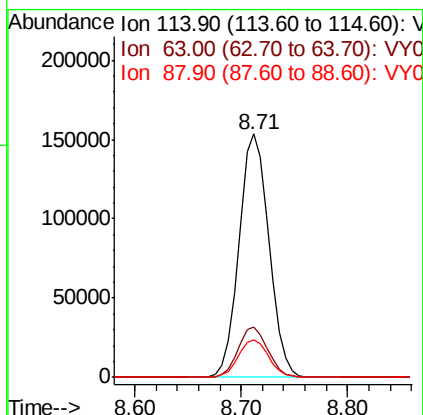
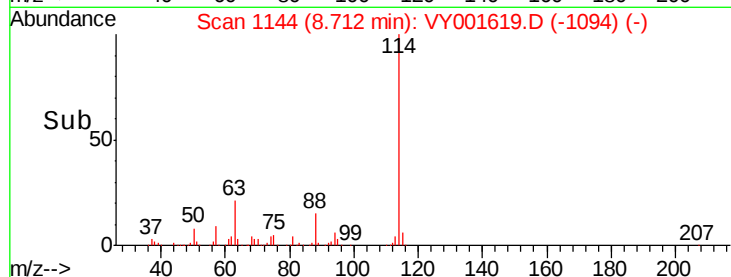
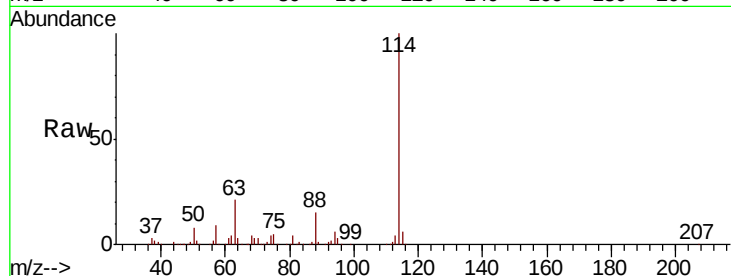




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.71 min Scan# 1144
Delta R.T. 0.01 min
Lab File: VY001619.D
Acq: 12 Feb 2020 18:42

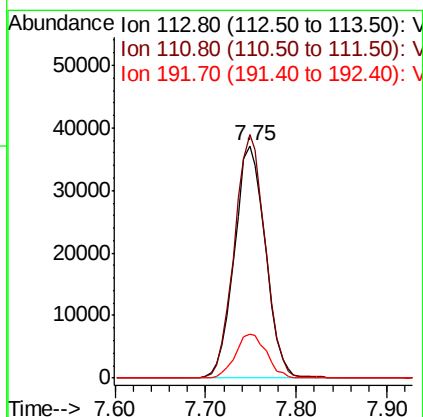
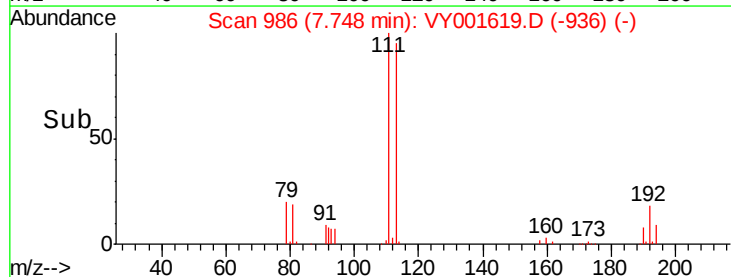
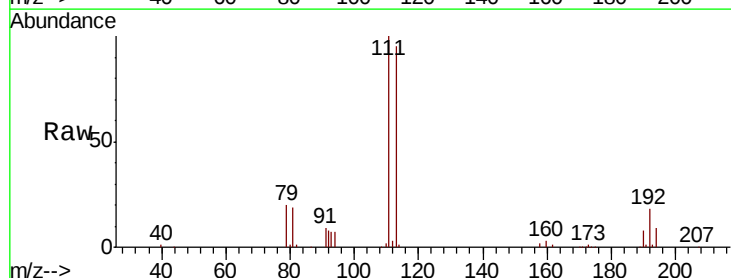
Instrument :
MSVOA_Y
ClientSampleId :

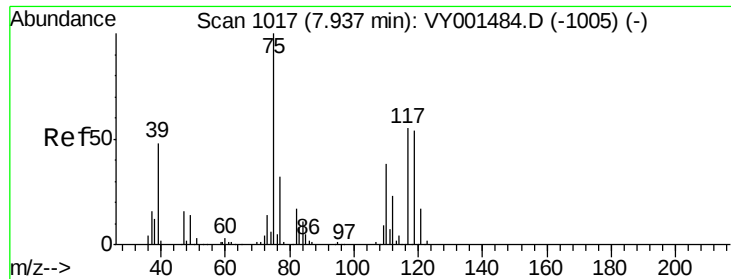
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	39.8
88	15.5	0.0	32.6



#35
Dibromofluoromethane
Concen: 50.440 ug/l
RT: 7.75 min Scan# 986
Delta R.T. 0.01 min
Lab File: VY001619.D
Acq: 12 Feb 2020 18:42

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.9	124.3
192	18.8	14.6	22.0

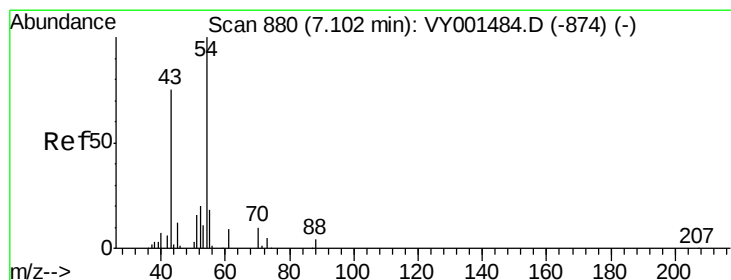
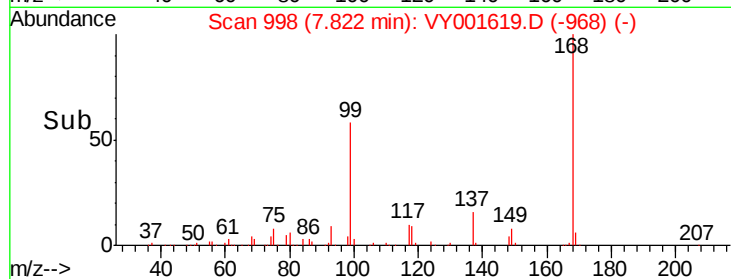
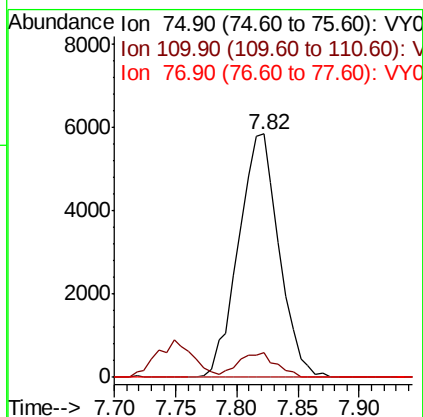
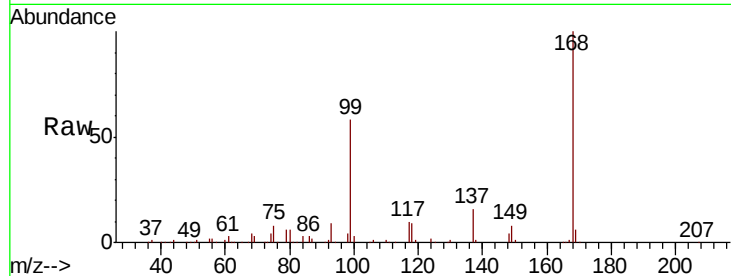




#36
 1,1-Dichloropropene
 Concen: 4.832 ug/l
 RT: 7.82 min Scan# 998
 Delta R.T. -0.12 min
 Lab File: VY001619.D
 Acq: 12 Feb 2020 18:42

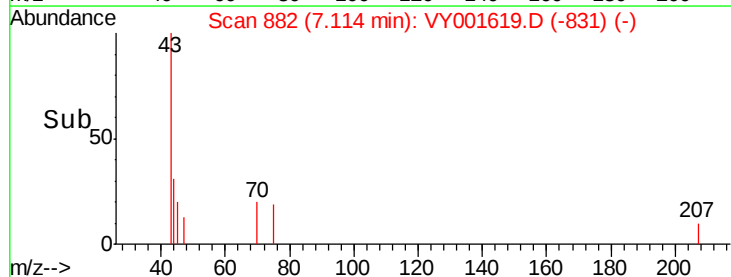
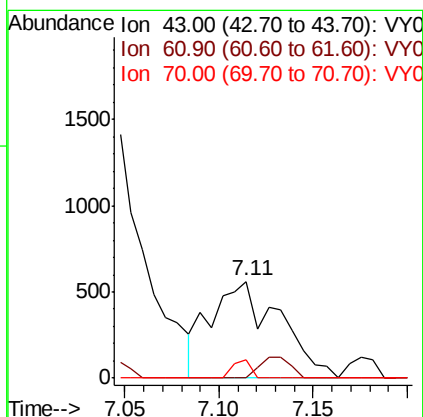
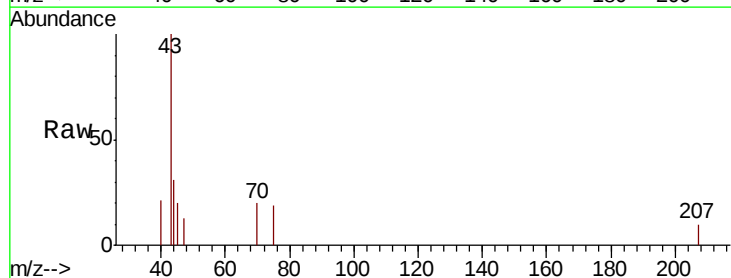
Instrument :
 MSVOA_Y
 ClientSampled :

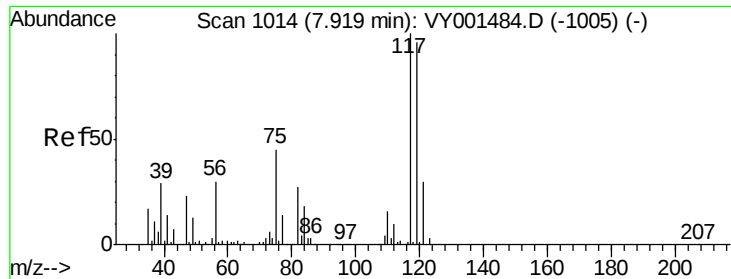
Tot Ion	75	Resp	13413
Ion Ratio	Lower	Upper	
75	100		
110	9.5	18.2	54.6#
77	0.0	25.0	37.4#



#37
 Ethyl Acetate
 Concen: 1.056 ug/l
 RT: 7.11 min Scan# 882
 Delta R.T. 0.01 min
 Lab File: VY001619.D
 Acq: 12 Feb 2020 18:42

Tgt Ion	43	Resp	1419
Ion Ratio	Lower	Upper	
43	100		
61	9.5	12.0	18.0#
70	5.0	10.2	15.4#





#38

Carbon Tetrachloride

Concen: 6.121 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.10 min

Lab File: VY001619.D

Acq: 12 Feb 2020 18:42

Instrument :

MSVOA_Y

ClientSampleId :

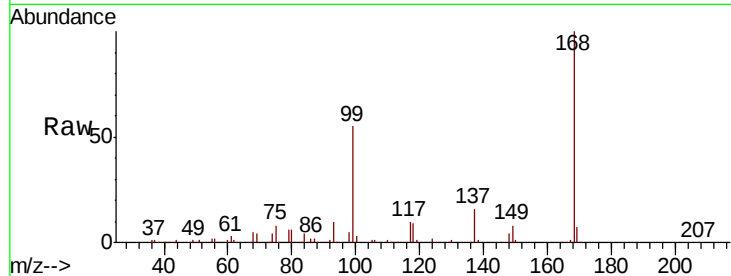
Tot Ion:117 Resp: 16441

Ion Ratio Lower Upper

117 100

119 5.0 76.4 114.6#

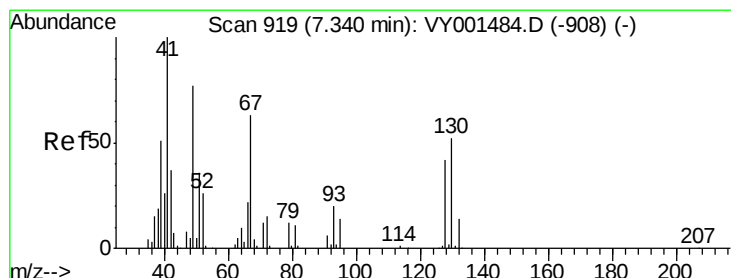
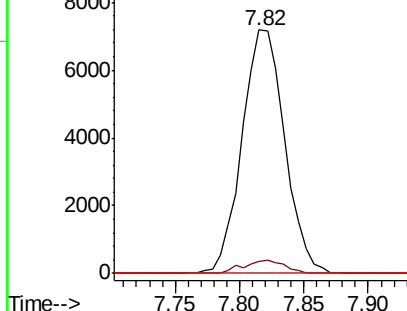
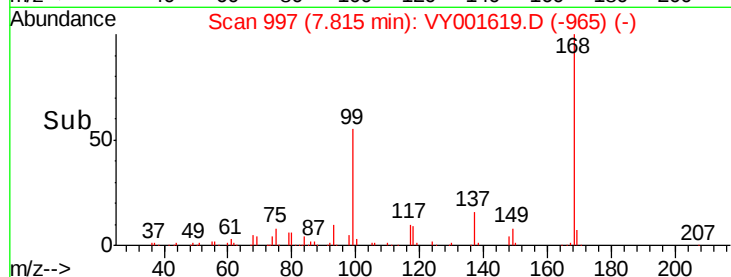
121 0.0 24.2 36.4#



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



#41

Methacrylonitrile

Concen: 30.743 ug/l

RT: 7.38 min Scan# 926

Delta R.T. 0.04 min

Lab File: VY001619.D

Acq: 12 Feb 2020 18:42

Tgt Ion: 41 Resp: 19148

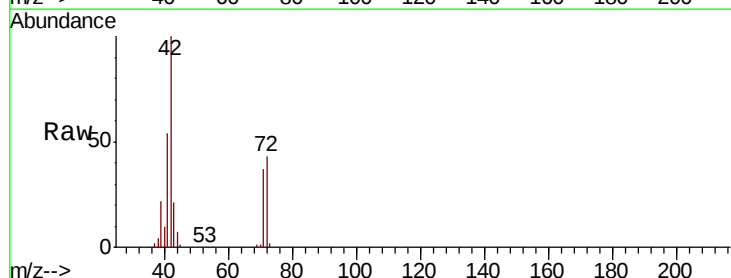
Ion Ratio Lower Upper

41 100

39 43.8 116.8 175.2#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

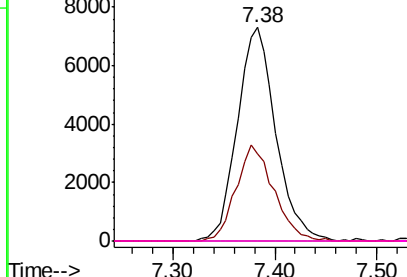
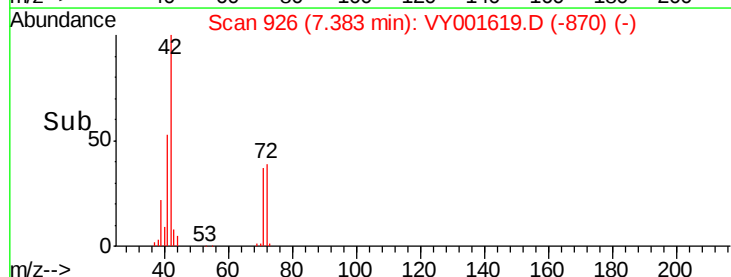


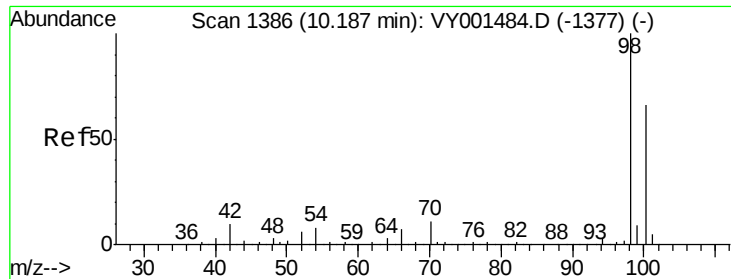
Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 67.00 (66.70 to 67.70): VY0

Ion 52.00 (51.70 to 52.70): VY0





#50

Toluene-d8

Concen: 54.765 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY001619.D

Acq: 12 Feb 2020 18:42

Instrument :

MSVOA_Y

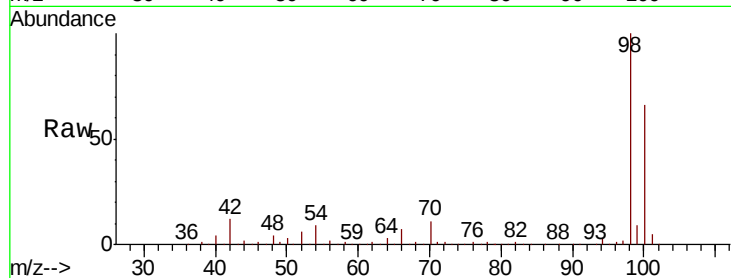
ClientSampleId :

Tot Ion: 98 Resp: 362568

Ion Ratio Lower Upper

98 100

100 66.3 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VY001484.D (-1377) (-)

Ion 100.00 (99.70 to 100.70): VY001484.D (-1377) (-)

10.19

250000

200000

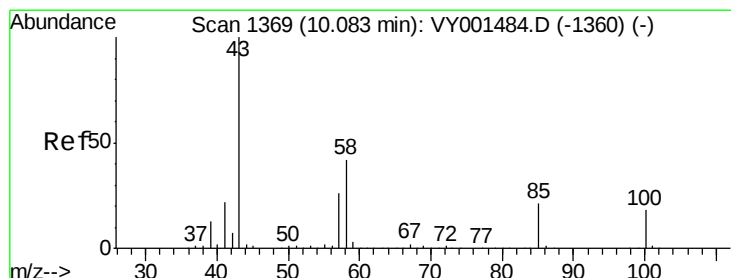
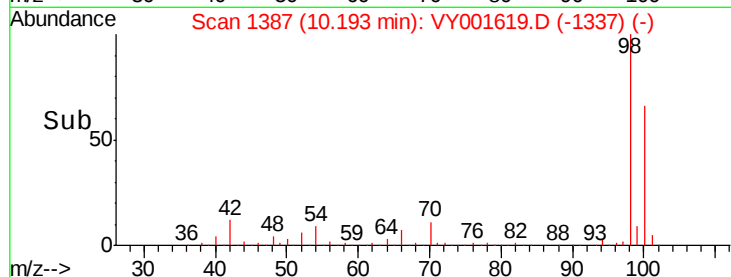
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.678 ug/l

RT: 10.08 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VY001619.D

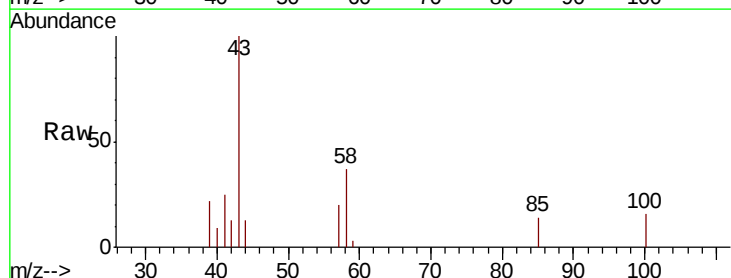
Acq: 12 Feb 2020 18:42

Tgt Ion: 43 Resp: 3509

Ion Ratio Lower Upper

43 100

58 42.2 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VY001484.D (-1360) (-)

Ion 58.00 (57.70 to 58.70): VY001484.D (-1360) (-)

10.08

2000

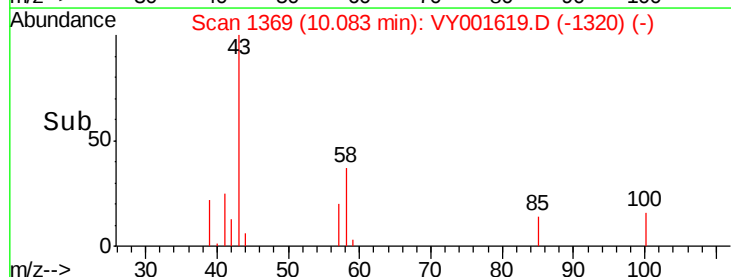
1500

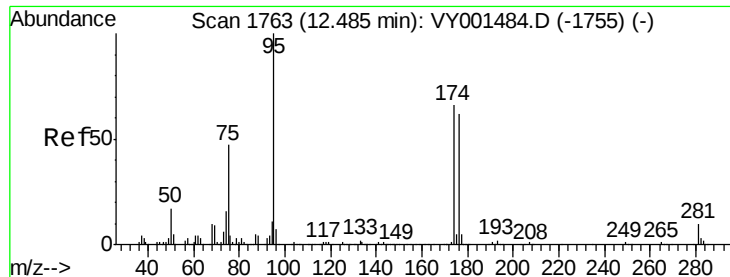
1000

500

0

Time-->

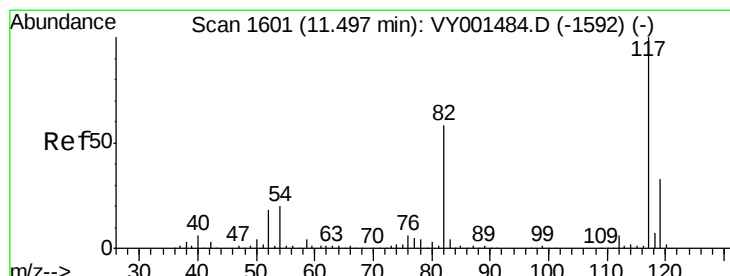
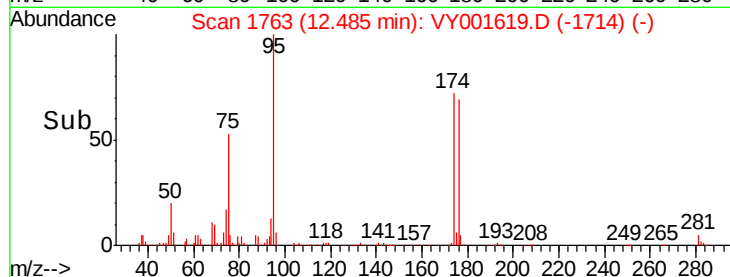
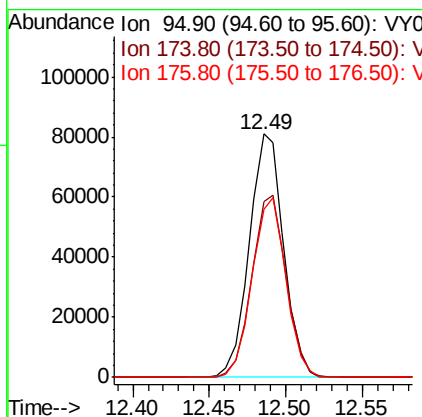
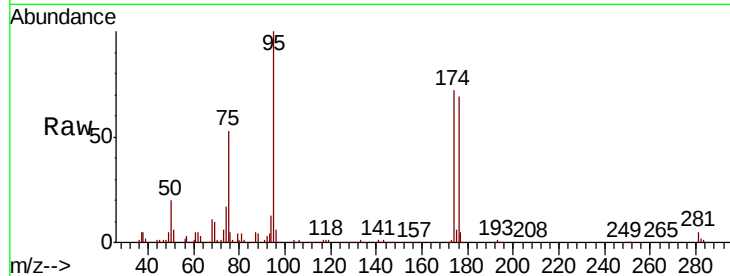




#62
4-Bromofluorobenzene
Concen: 48.287 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. 0.00 min
Lab File: VY001619.D
Acq: 12 Feb 2020 18:42

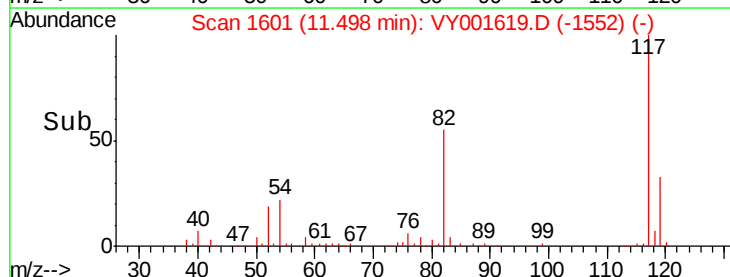
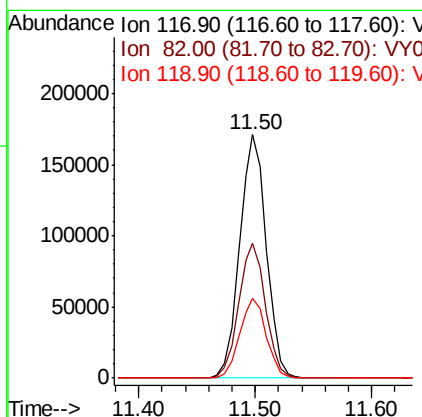
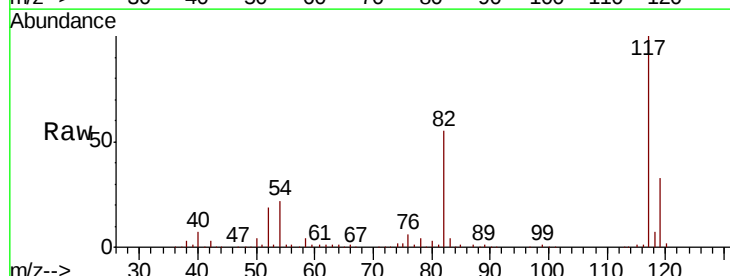
Instrument :
MSVOA_Y
ClientSampleId :

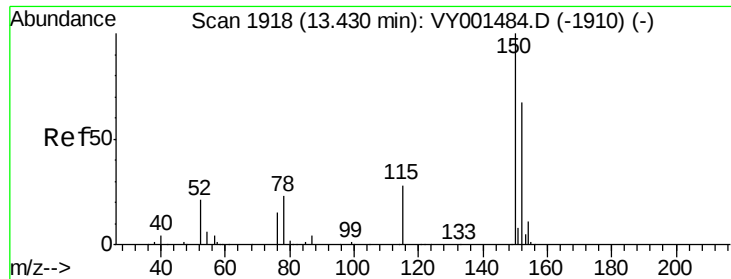
Tot Ion	95	Resp	125937
Ion Ratio	Lower	Upper	
95	100		
174	75.0	0.0	141.4
176	72.8	0.0	135.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. 0.00 min
Lab File: VY001619.D
Acq: 12 Feb 2020 18:42

Tgt Ion	117	Resp	271235
Ion Ratio	Lower	Upper	
117	100		
82	55.5	46.1	69.1
119	32.6	26.1	39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. 0.00 min

Lab File: VY001619.D

Acq: 12 Feb 2020 18:42

Instrument :

MSVOA_Y

ClientSampleId :

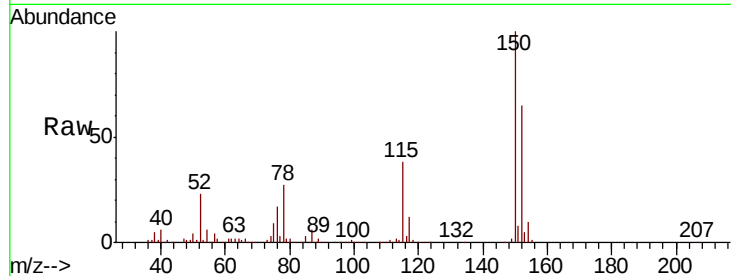
Tot Ion:152 Resp: 123466

Ion Ratio Lower Upper

152 100

115 60.3 31.4 94.3

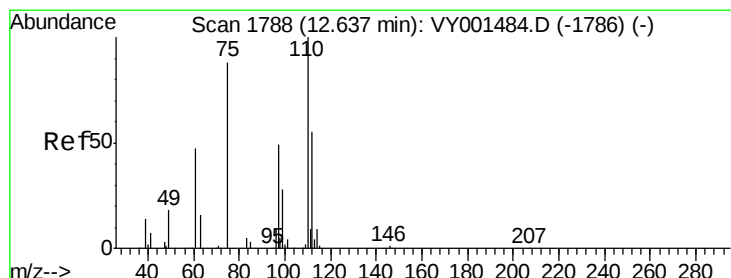
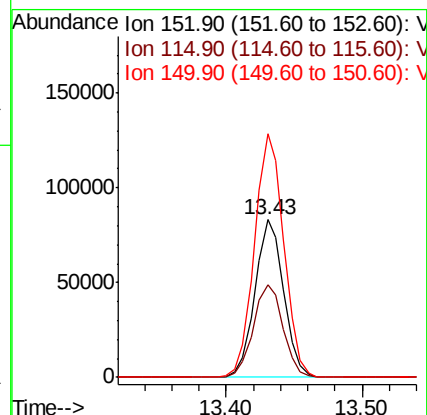
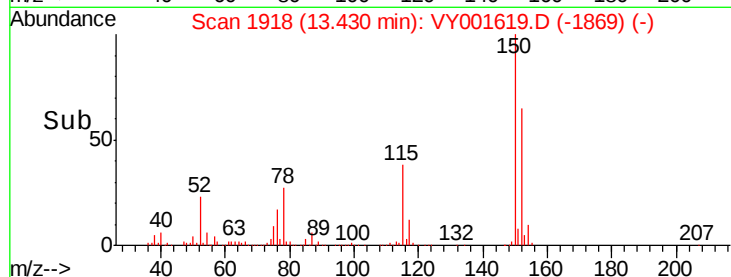
150 157.2 0.0 346.8



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



#76

1,2,3-Trichloropropane

Concen: 48.472 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY001619.D

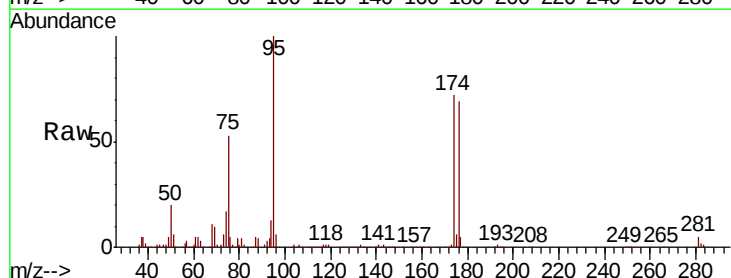
Acq: 12 Feb 2020 18:42

Tgt Ion: 75 Resp: 64359

Ion Ratio Lower Upper

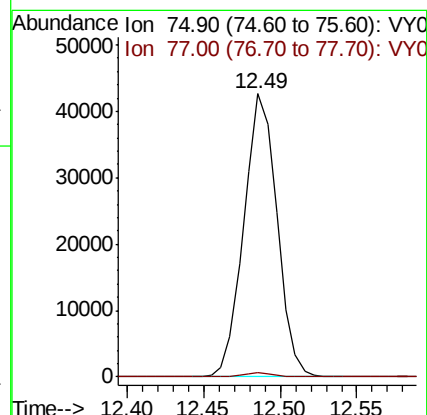
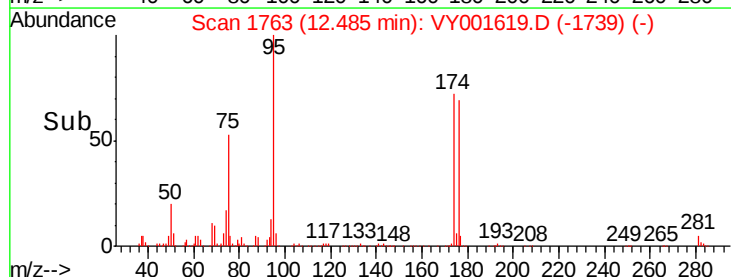
75 100

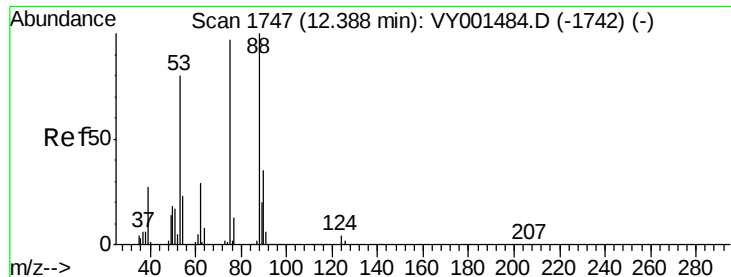
77 1.5 0.0 0.0#



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: 93.791 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001619.D

Acq: 12 Feb 2020 18:42

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 75 Resp: 64359

Ion Ratio Lower Upper

75 100

53 0.0 67.7 101.5#

89 0.2 34.6 52.0#

