

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY092019\
 Data File : VY000097.D
 Acq On : 20 Sep 2019 10:45
 Operator : SY/MD
 Sample : VY0920SBL01
 Misc : 5.00g/5.00ml/MSVOA Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 20 23:45:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y091719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 05:38:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.79	168	103830	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	204744	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	169150	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	67306	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	60462	50.61	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.22%	
35) Dibromofluoromethane	7.72	113	57648	46.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.00%	
50) Toluene-d8	10.18	98	237169	48.71	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.42%	
62) 4-Bromofluorobenzene	12.48	95	75630	41.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	83.68%	

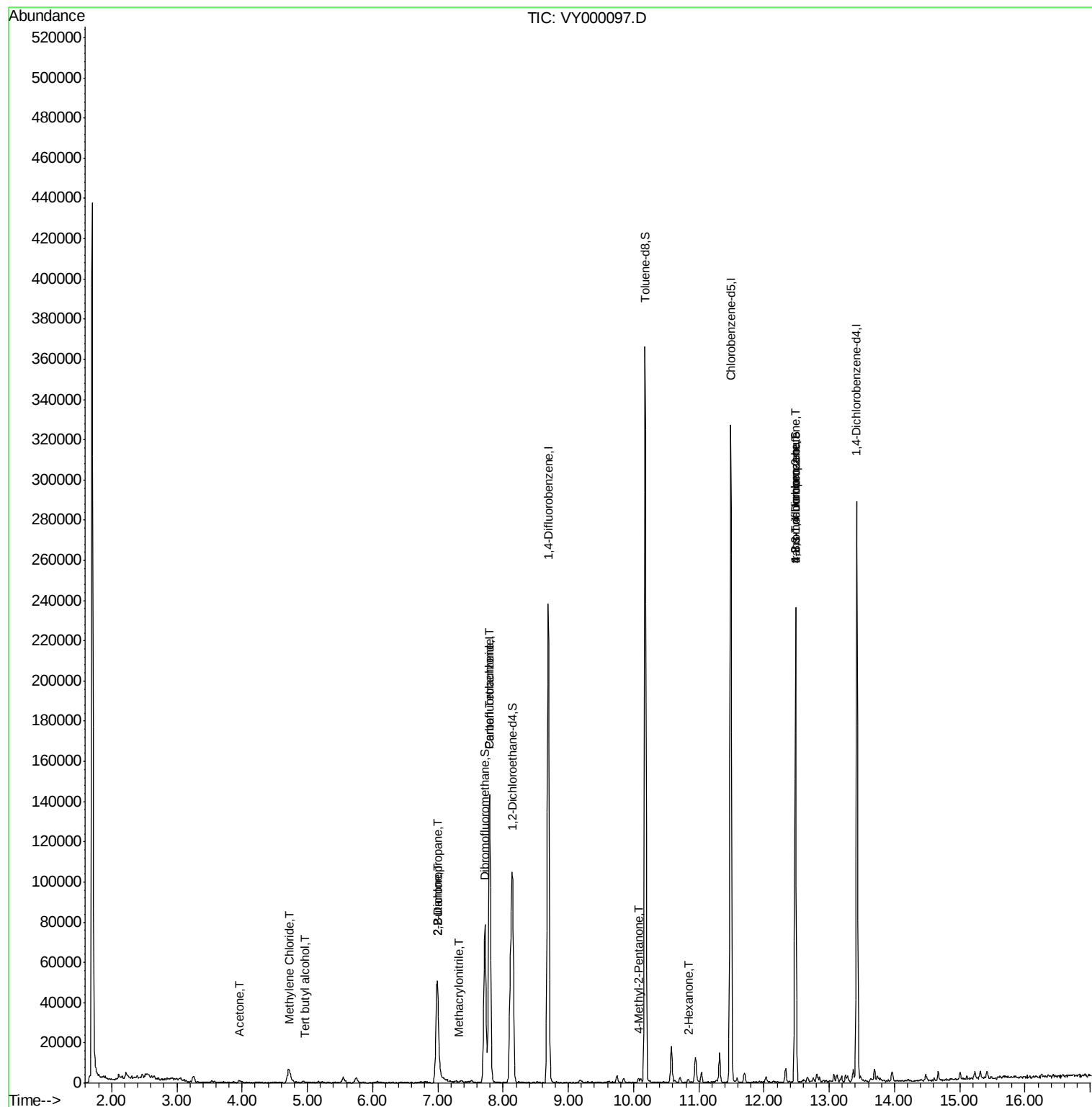
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.90	85	375	Below Cal	#	54
3) Chloromethane	2.11	50	1626	Below Cal		95
5) Bromomethane	2.73	94	136	Below Cal	#	6
11) Tert butyl alcohol	4.97	59	545	3.848	ug/l #	93
13) Acrolein	3.75	56	80	Below Cal	#	13
16) Acetone	3.96	43	1701	6.116	ug/l	98
17) Carbon Disulfide	4.20	76	94	Below Cal	#	77
20) Methylene Chloride	4.72	84	5025	3.841	ug/l #	91
25) 2-Butanone	7.00	43	2816	5.590	ug/l #	56
26) 2,2-Dichloropropane	6.99	77	4154	2.126	ug/l #	50
31) Cyclohexane	7.79	56	2811	Below Cal	#	1
38) Carbon Tetrachloride	7.79	117	10516	7.278	ug/l #	18
41) Methacrylonitrile	7.32	41	189	4.526	ug/l #	4
51) 4-Methyl-2-Pentanone	10.07	43	1485	1.363	ug/l	100
59) 2-Hexanone	10.84	43	1018	1.310	ug/l	94
76) 1,2,3-Trichloropropane	12.48	75	38502	40.657	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	38502	78.194	ug/l #	19

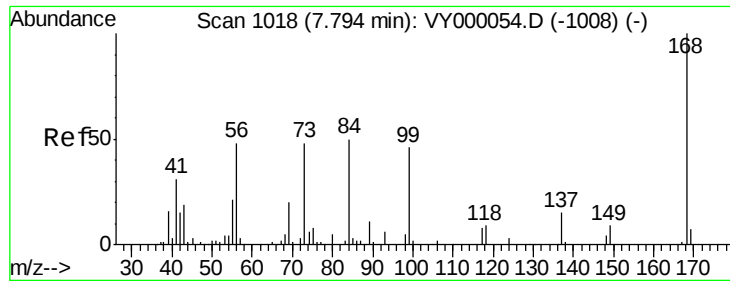
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VY000097.D

Acq: 20 Sep 2019 10:45

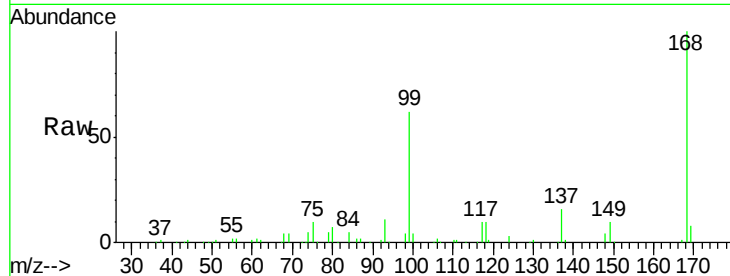
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 103830

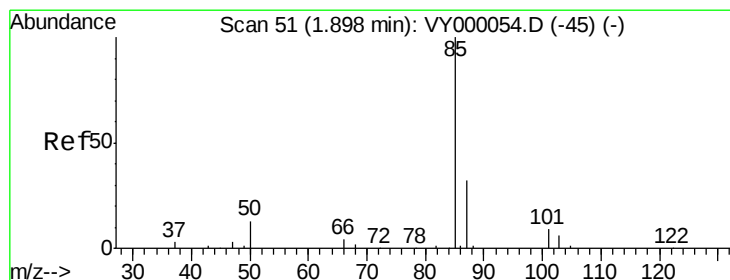
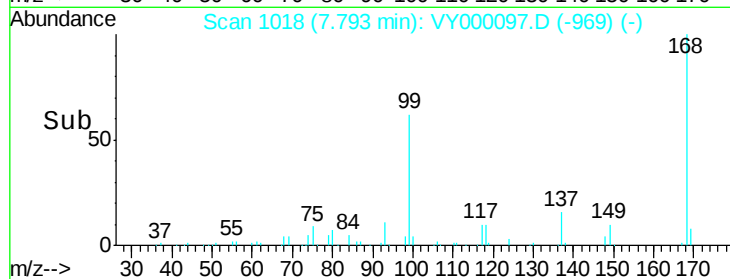
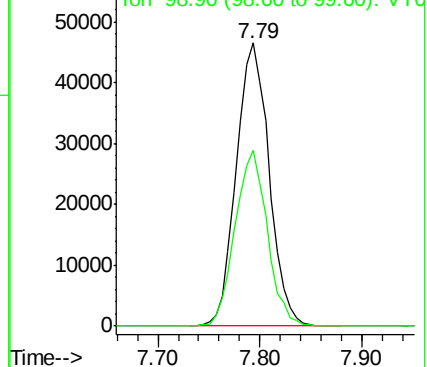
Ion Ratio Lower Upper

168 100

99 62.3 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): VY000054.D (-1008) (-)



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.90 min Scan# 51

Delta R.T. -0.00 min

Lab File: VY000097.D

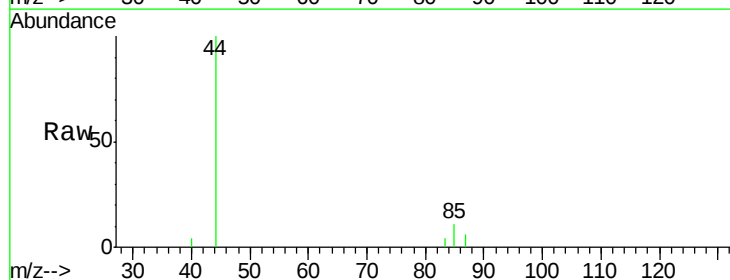
Acq: 20 Sep 2019 10:45

Tgt Ion: 85 Resp: 375

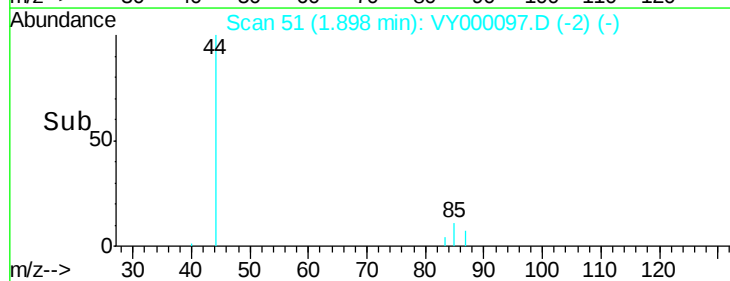
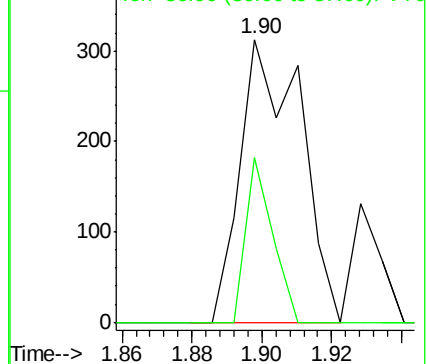
Ion Ratio Lower Upper

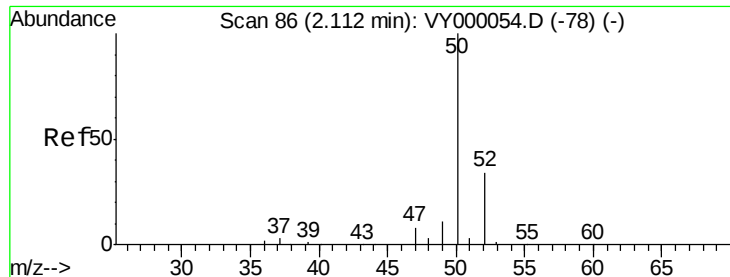
85 100

87 58.1 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VY000054.D (-45) (-)





#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 86

Delta R.T. 0.00 min

Lab File: VY000097.D

Acq: 20 Sep 2019 10:45

Instrument :

MSVOA_Y

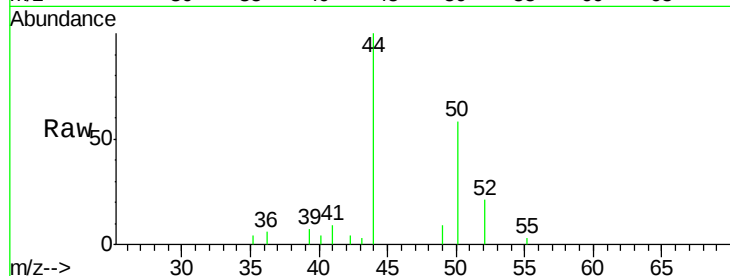
ClientSampled :

Tot Ion: 50 Resp: 1626

Ion Ratio Lower Upper

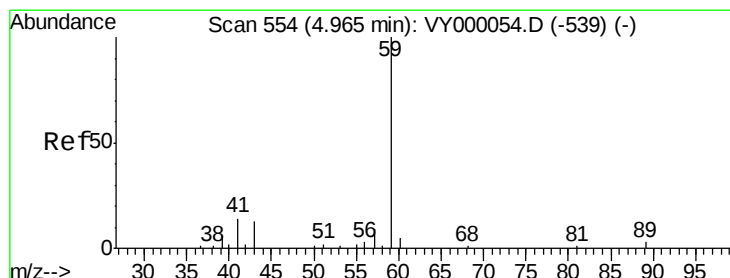
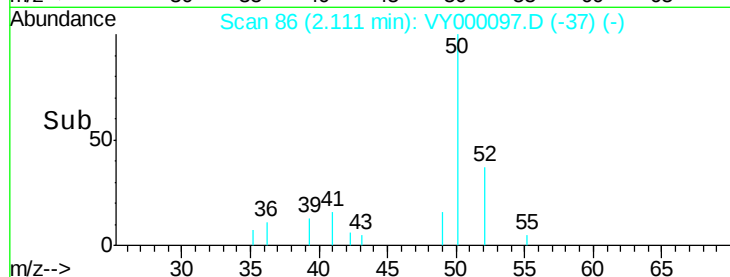
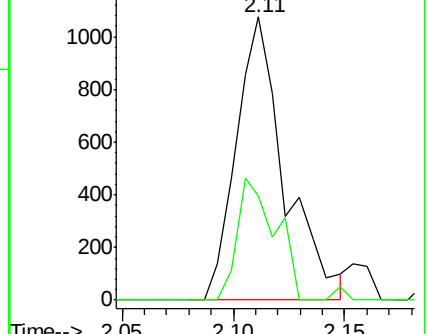
50 100

52 36.9 27.3 40.9



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#11

Tert butyl alcohol

Concen: 3.848 ug/l

RT: 4.97 min Scan# 555

Delta R.T. 0.01 min

Lab File: VY000097.D

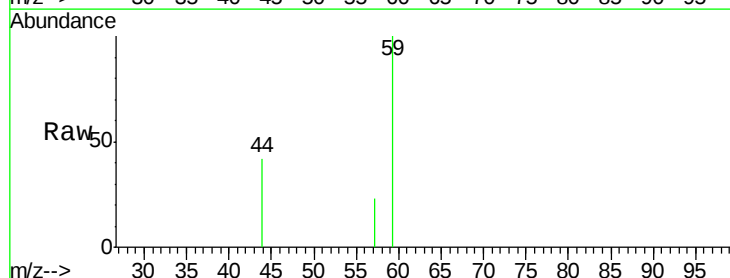
Acq: 20 Sep 2019 10:45

Tgt Ion: 59 Resp: 545

Ion Ratio Lower Upper

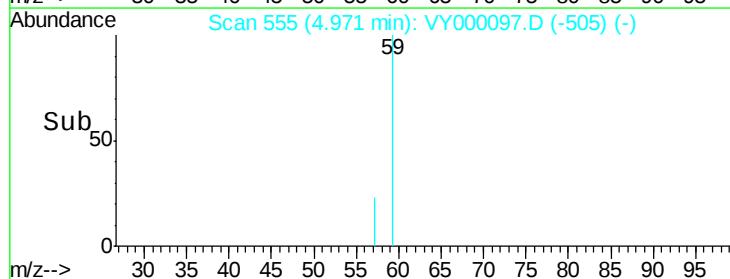
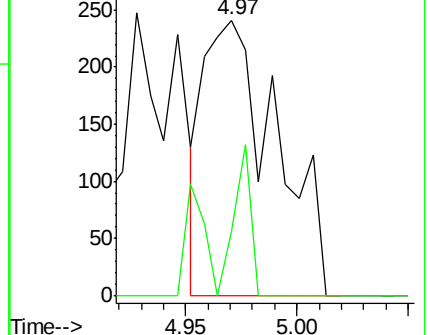
59 100

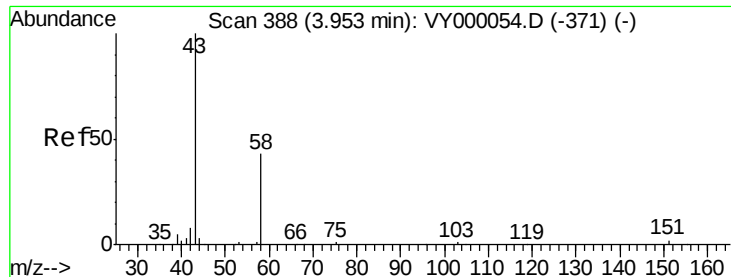
57 12.7 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 6.116 ug/l

RT: 3.96 min Scan# 390

Delta R.T. 0.01 min

Lab File: VY000097.D

Acq: 20 Sep 2019 10:45

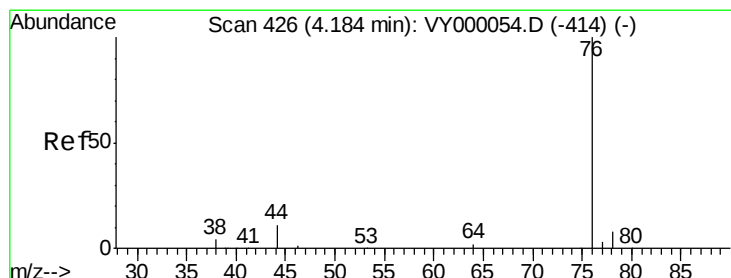
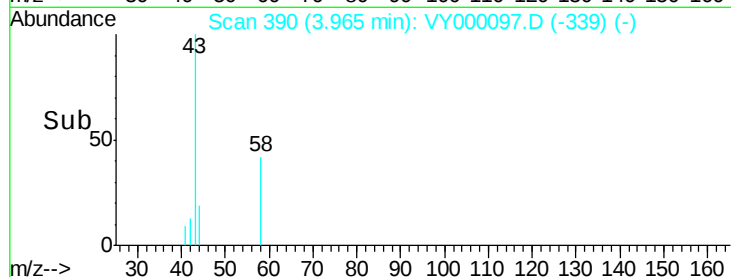
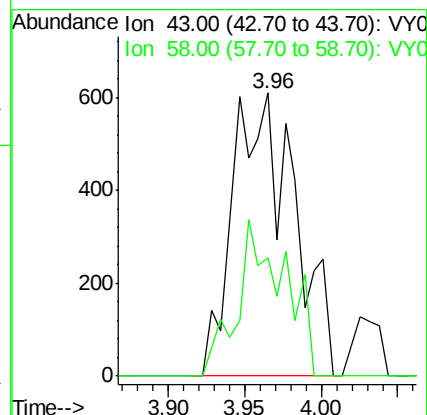
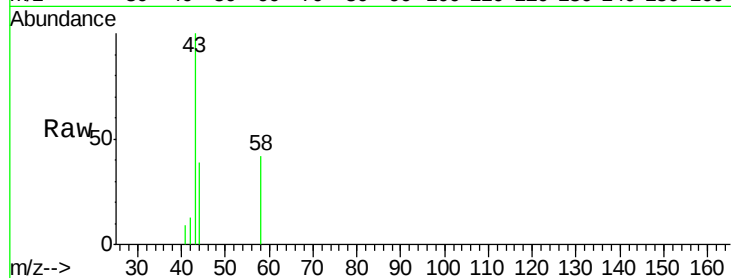
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 43 Resp: 1701

Ion Ratio Lower Upper

43 100

58 41.9 34.5 51.7



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.20 min Scan# 428

Delta R.T. 0.01 min

Lab File: VY000097.D

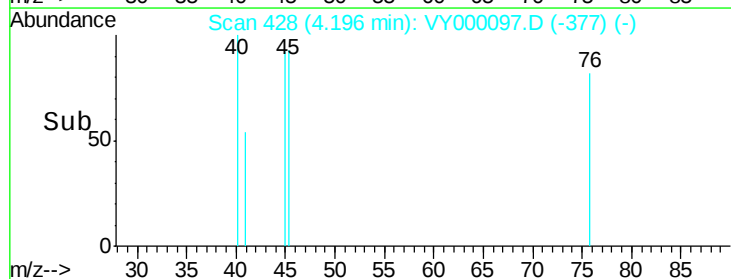
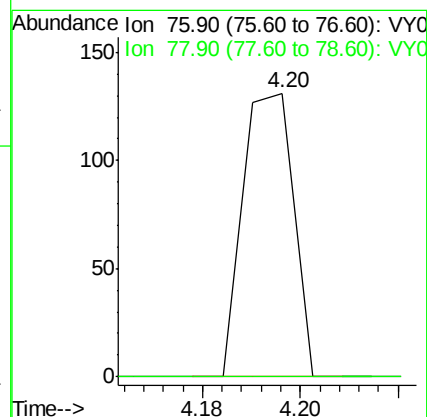
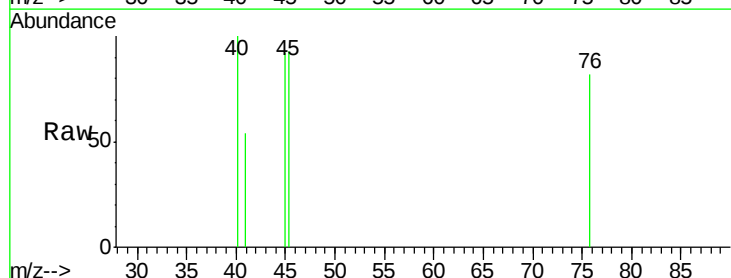
Acq: 20 Sep 2019 10:45

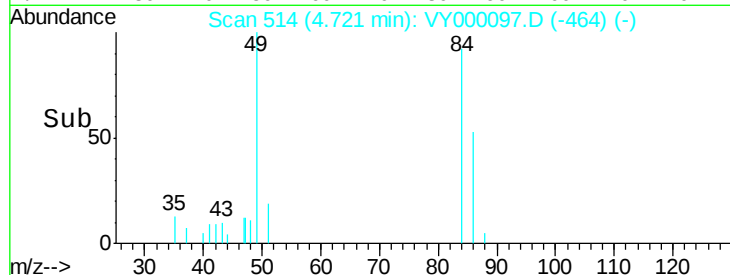
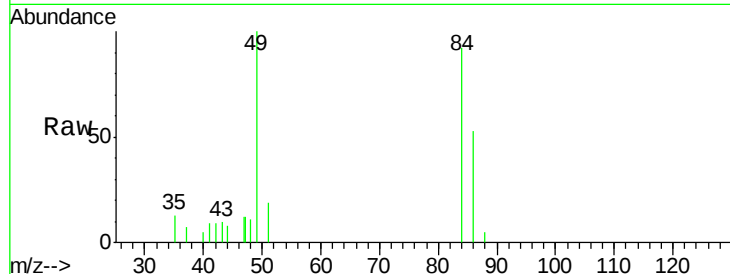
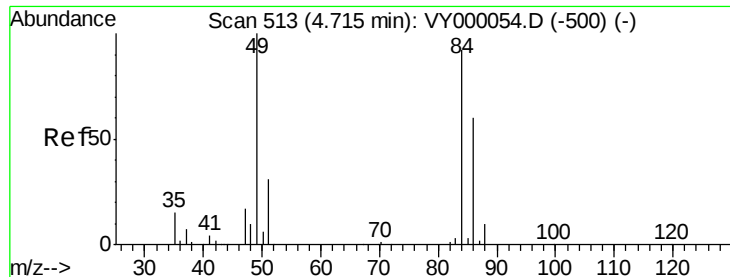
Tgt Ion: 76 Resp: 94

Ion Ratio Lower Upper

76 100

78 0.0 6.6 9.8#

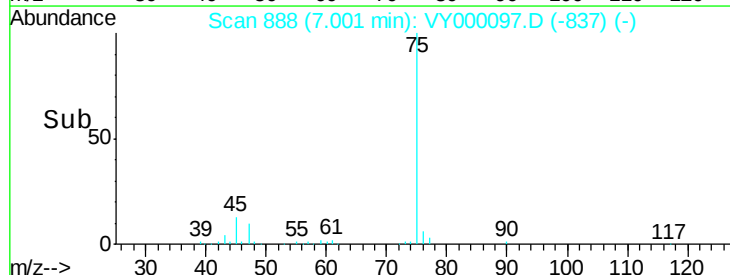
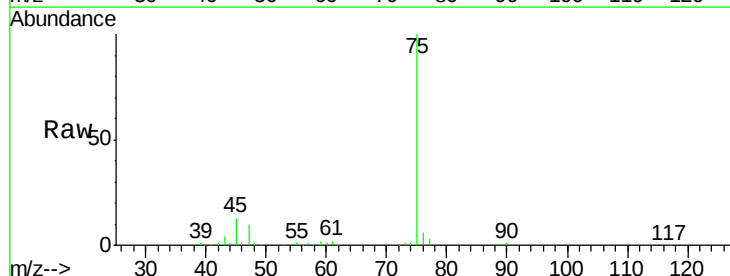
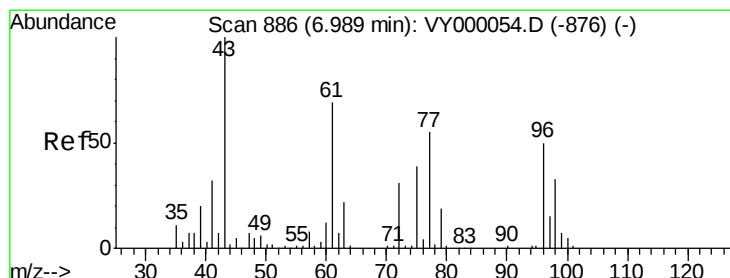
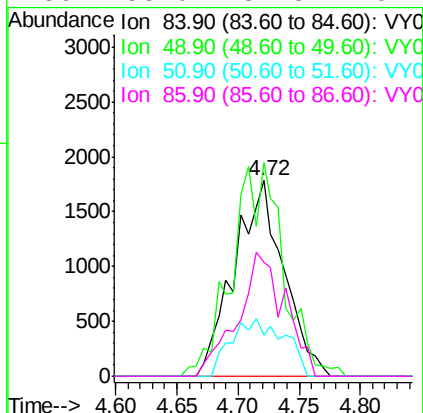




#20
Methvlene Chloride
Concen: 3.841 ug/l
RT: 4.72 min Scan# 514
Delta R.T. 0.01 min
Lab File: VY000097.D
Acq: 20 Sep 2019 10:45

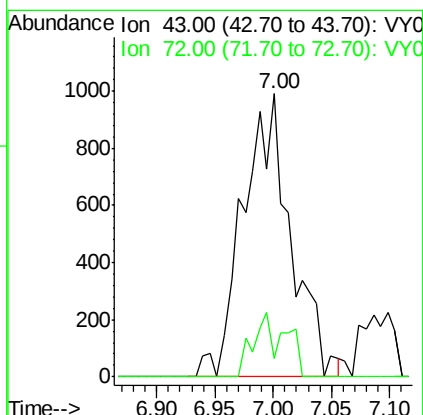
Instrument :
MSVOA_Y
ClientSampleId :

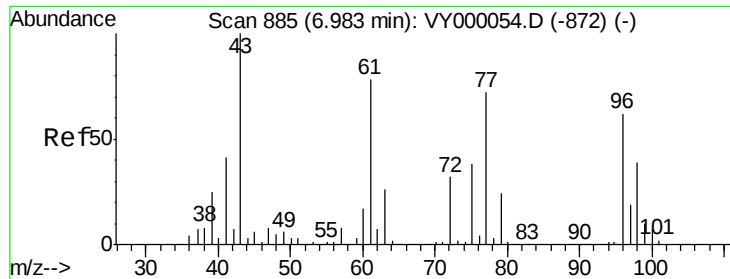
Tot Ion: 84 Resp: 5025
Ion Ratio Lower Upper
84 100
49 104.7 87.4 131.0
51 20.9 27.2 40.8#
86 58.0 52.8 79.2



#25
2-Butanone
Concen: 5.590 ug/l
RT: 7.00 min Scan# 888
Delta R.T. 0.01 min
Lab File: VY000097.D
Acq: 20 Sep 2019 10:45

Tgt Ion: 43 Resp: 2816
Ion Ratio Lower Upper
43 100
72 6.7 24.7 37.1#





#26

2,2-Dichloropropane

Concen: 2.126 ug/l

RT: 6.99 min Scan# 886

Delta R.T. 0.01 min

Lab File: VY000097.D

Acq: 20 Sep 2019 10:45

Instrument :

MSVOA_Y

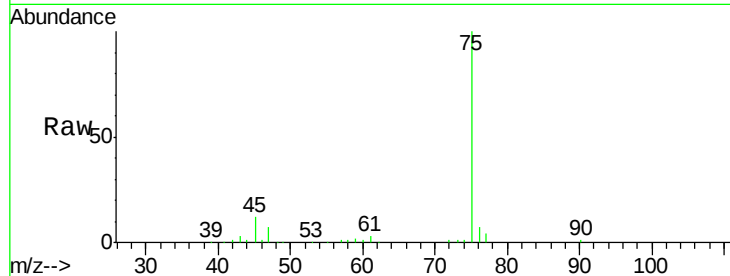
ClientSampleId :

Tot Ion: 77 Resp: 4154

Ion Ratio Lower Upper

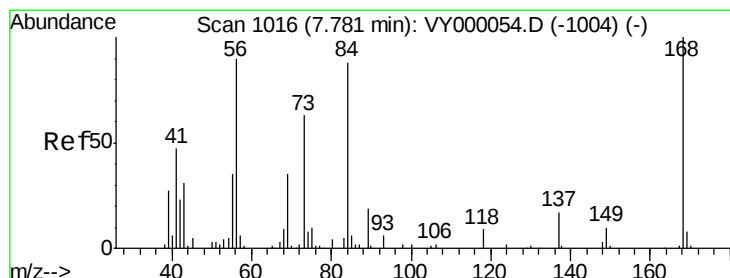
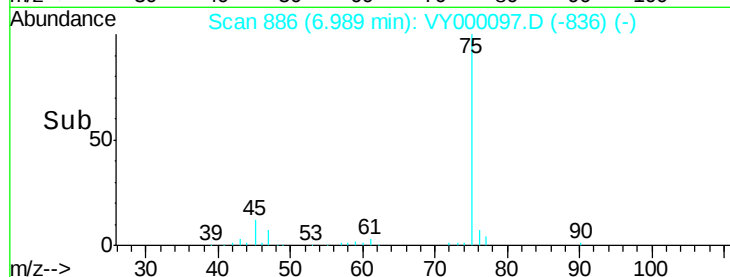
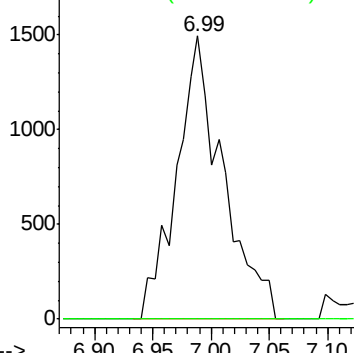
77 100

97 0.0 12.5 37.5#



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0



#31

Cyclohexane

Concen: Below Cal

RT: 7.79 min Scan# 1017

Delta R.T. 0.01 min

Lab File: VY000097.D

Acq: 20 Sep 2019 10:45

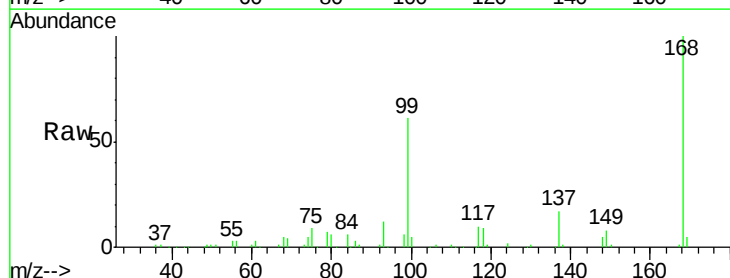
Tgt Ion: 56 Resp: 2811

Ion Ratio Lower Upper

56 100

69 131.4 30.9 46.3#

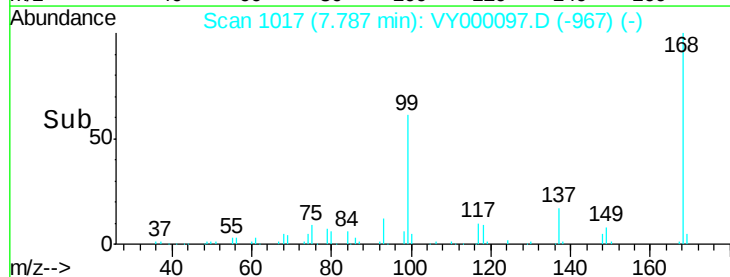
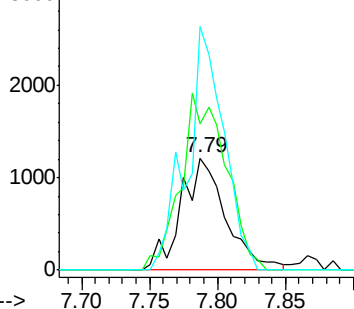
84 217.9 78.5 117.7#

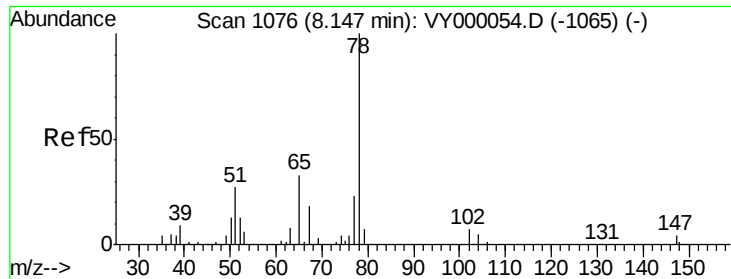


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0

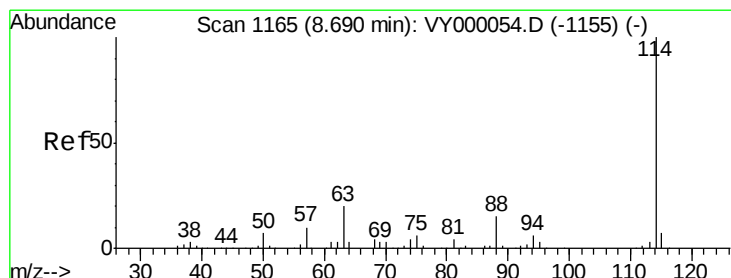
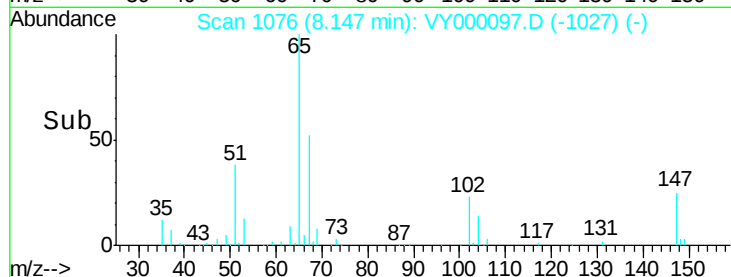
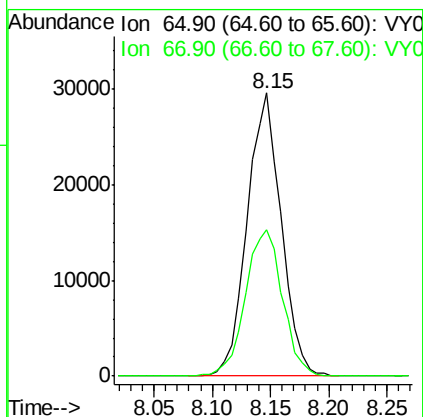
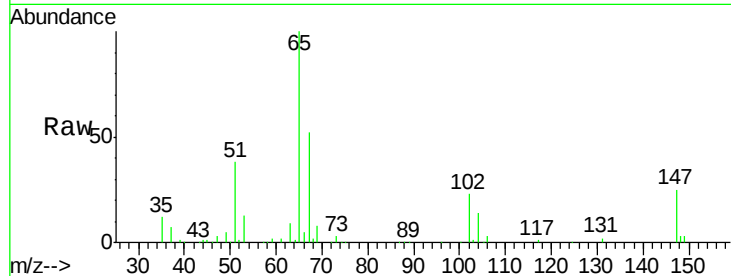




#33
 1,2-Dichloroethane-d4
 Concen: 50.614 ug/l
 RT: 8.15 min Scan# 1076
 Delta R.T. -0.00 min
 Lab File: VY000097.D
 Acq: 20 Sep 2019 10:45

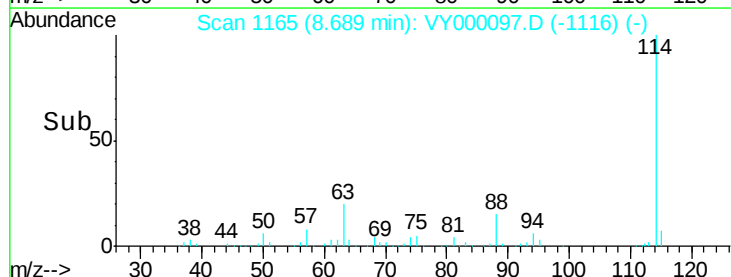
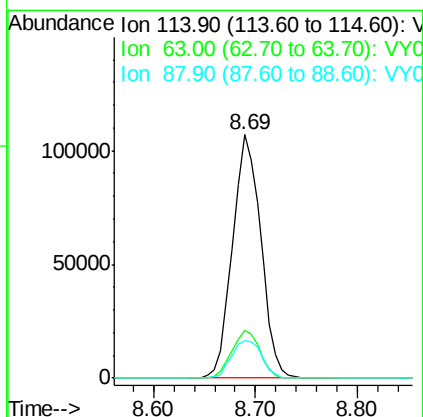
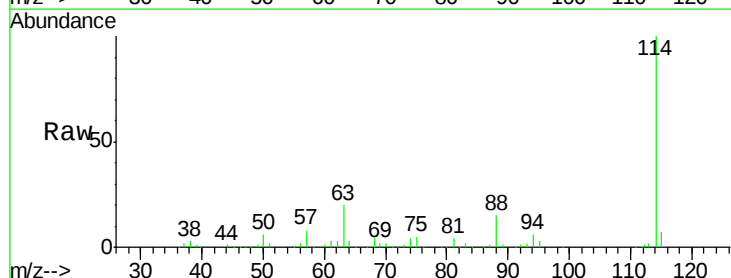
Instrument :
 MSVOA_Y
 ClientSampleId :

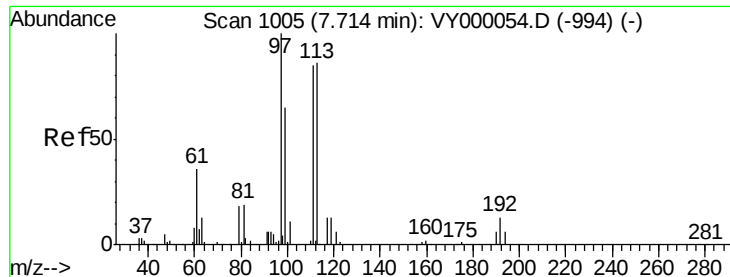
Tot Ion: 65 Resp: 60462
 Ion Ratio Lower Upper
 65 100
 67 56.2 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: VY000097.D
 Acq: 20 Sep 2019 10:45

Tgt Ion: 114 Resp: 204744
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.4
 88 15.5 0.0 30.2

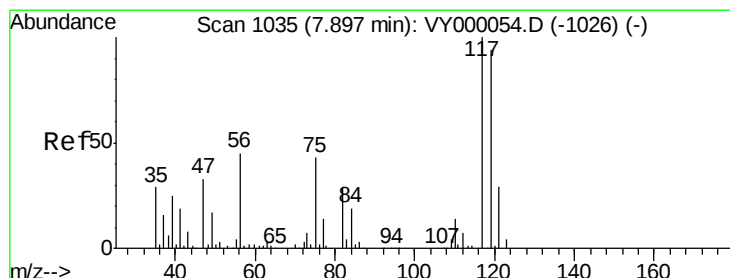
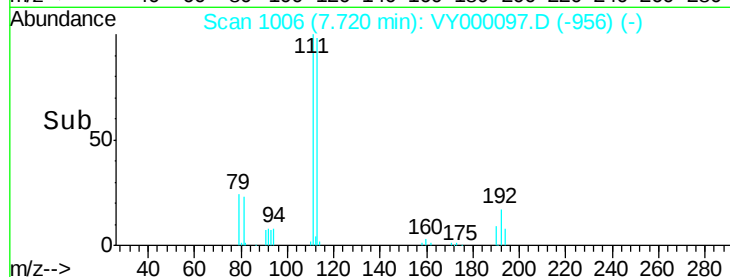
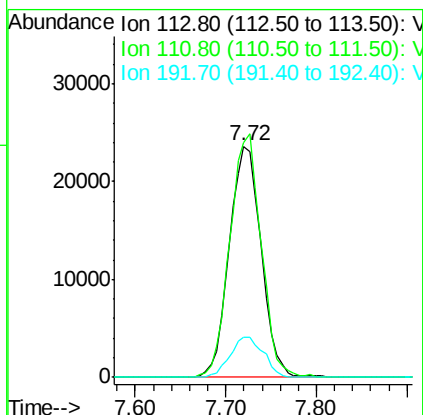
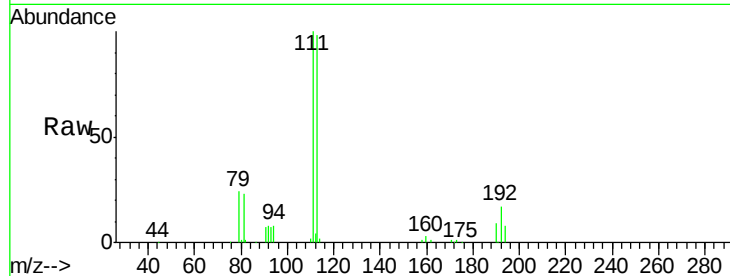




#35
 Dibromofluoromethane
 Concen: 46.503 ug/l
 RT: 7.72 min Scan# 1006
 Delta R.T. 0.01 min
 Lab File: VY000097.D
 Acq: 20 Sep 2019 10:45

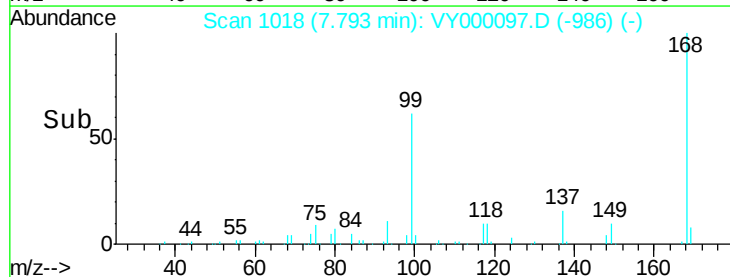
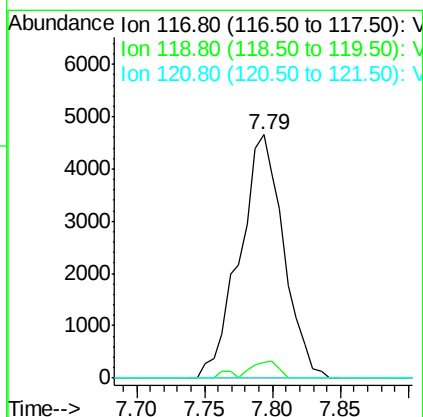
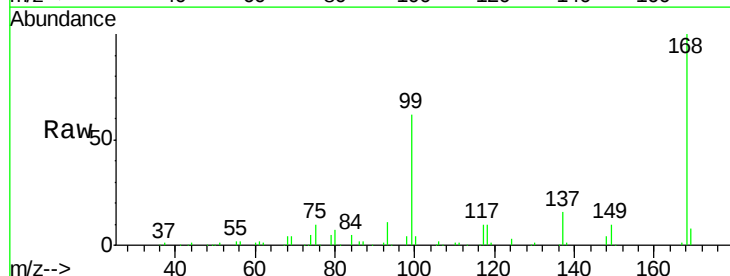
Instrument :
 MSVOA_Y
 ClientSampleId :

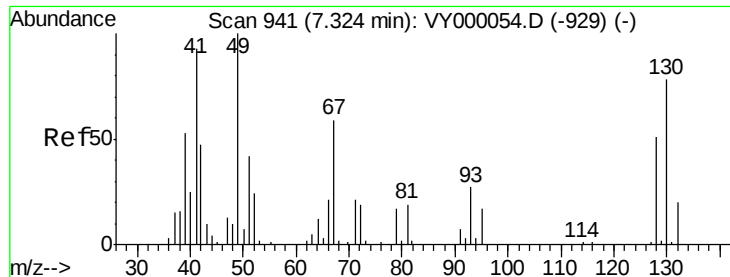
Tot Ion:113 Resp: 57648
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.7 122.5
 192 18.2 13.4 20.2



#38
 Carbon Tetrachloride
 Concen: 7.278 ug/l
 RT: 7.79 min Scan# 1018
 Delta R.T. -0.10 min
 Lab File: VY000097.D
 Acq: 20 Sep 2019 10:45

Tgt Ion:117 Resp: 10516
 Ion Ratio Lower Upper
 117 100
 119 6.6 75.0 112.6#
 121 0.0 22.8 34.2#

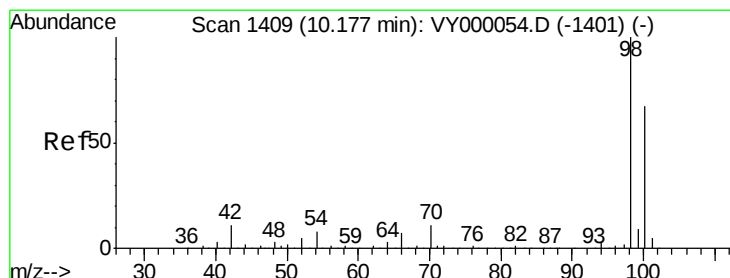
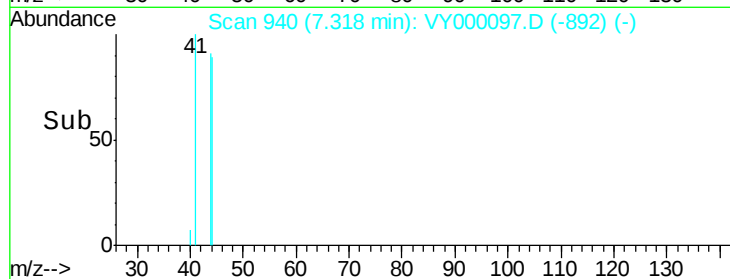
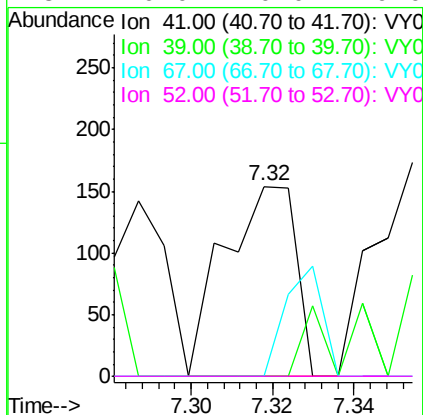
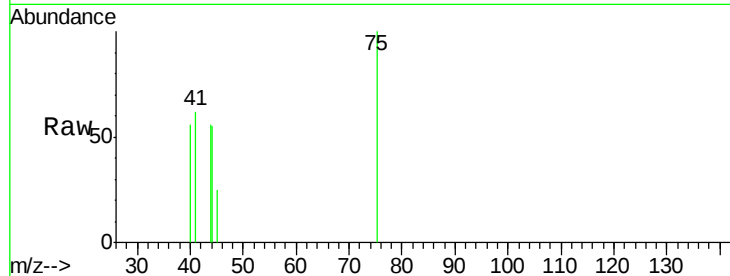




#41
Methacrylonitrile
Concen: 4.526 ug/l
RT: 7.32 min Scan# 940
Delta R.T. -0.01 min
Lab File: VY000097.D
Acq: 20 Sep 2019 10:45

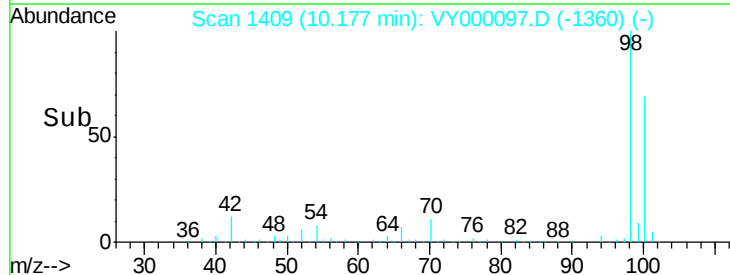
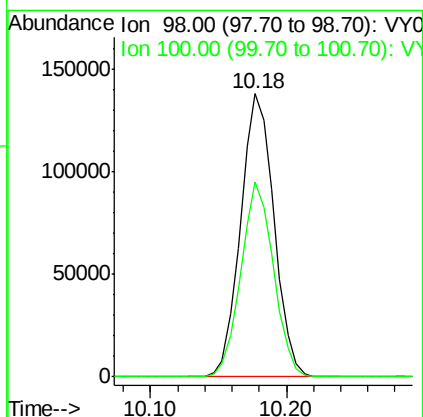
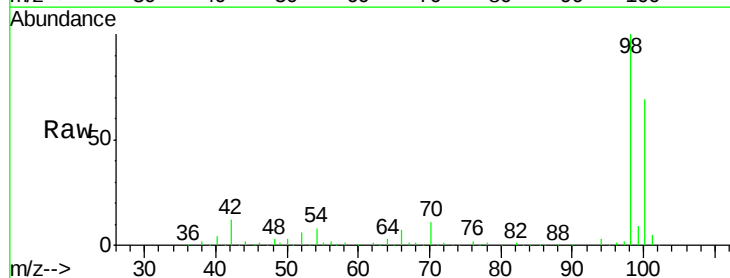
Instrument :
MSVOA_Y
ClientSampled :

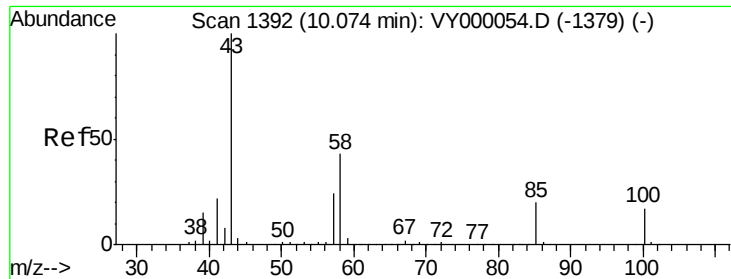
Tot Ion: 41 Resp: 189
Ion Ratio Lower Upper
41 100
39 11.1 91.8 137.6#
67 30.2 0.0 0.0#
52 0.0 0.0 0.0



#50
Toluene-d8
Concen: 48.710 ug/l
RT: 10.18 min Scan# 1409
Delta R.T. -0.00 min
Lab File: VY000097.D
Acq: 20 Sep 2019 10:45

Tgt Ion: 98 Resp: 237169
Ion Ratio Lower Upper
98 100
100 67.2 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 1.363 ug/l

RT: 10.07 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VY000097.D

Acq: 20 Sep 2019 10:45

Instrument :

MSVOA_Y

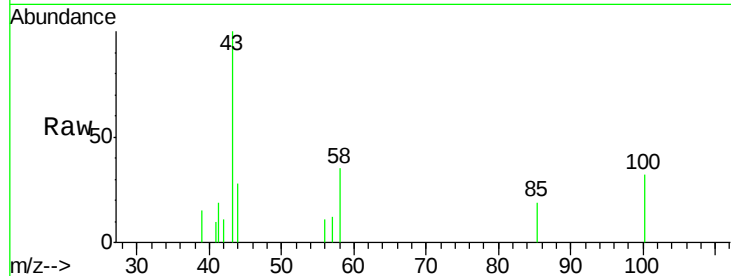
ClientSampleId :

Tot Ion: 43 Resp: 1485

Ion Ratio Lower Upper

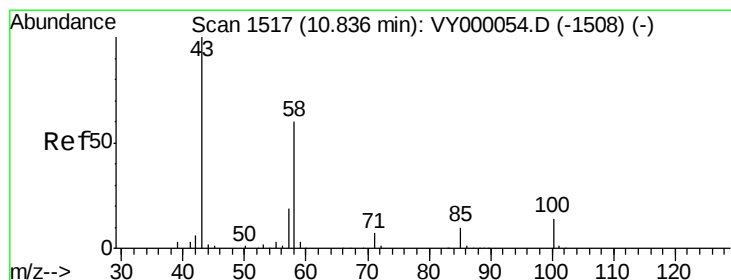
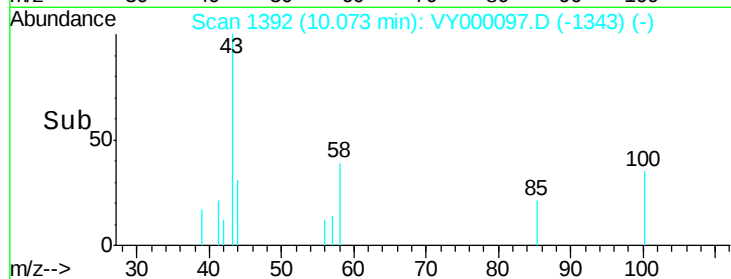
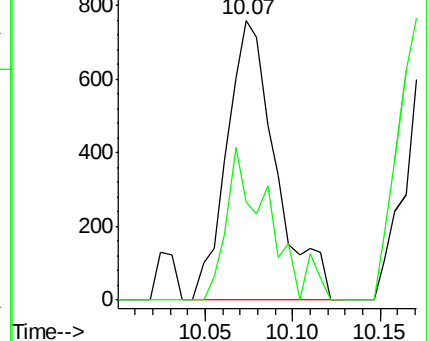
43 100

58 42.8 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#59

2-Hexanone

Concen: 1.310 ug/l

RT: 10.84 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VY000097.D

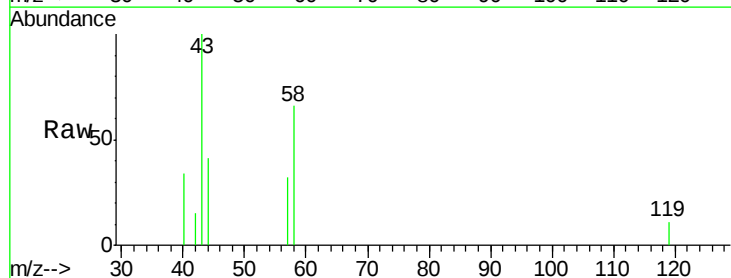
Acq: 20 Sep 2019 10:45

Tgt Ion: 43 Resp: 1018

Ion Ratio Lower Upper

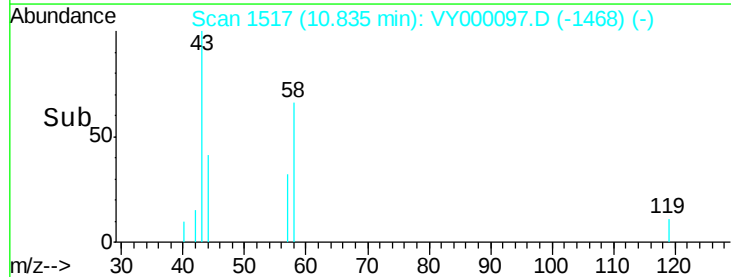
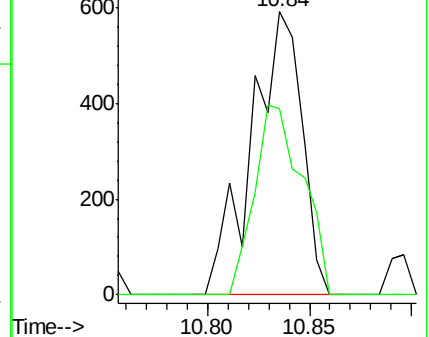
43 100

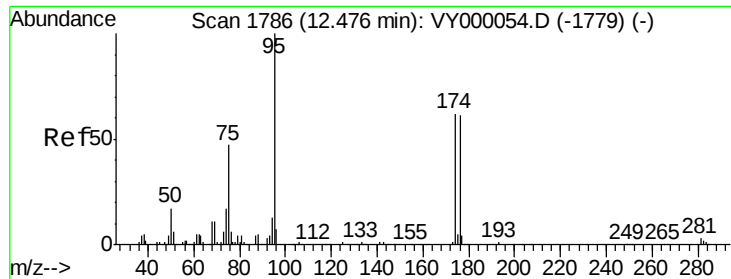
58 64.1 29.9 89.7



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

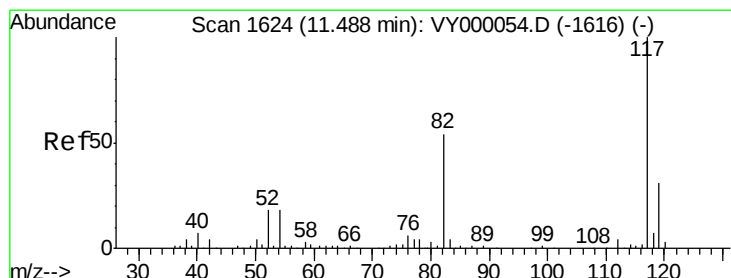
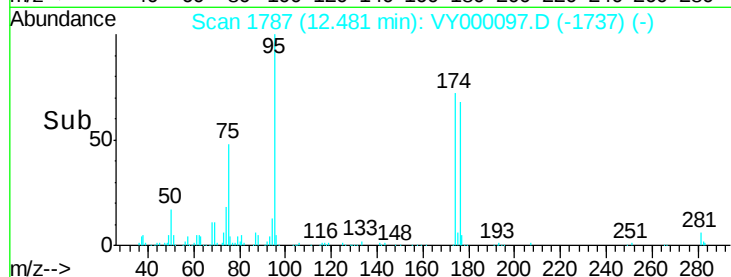
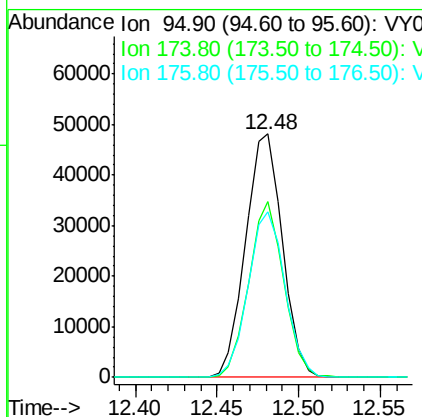
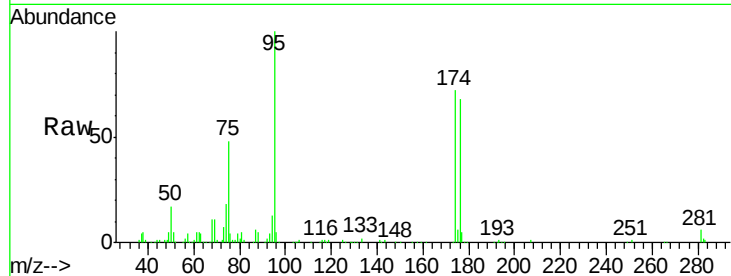




#62
4-Bromofluorobenzene
Concen: 41.837 ug/l
RT: 12.48 min Scan# 1787
Delta R.T. 0.01 min
Lab File: VY000097.D
Acq: 20 Sep 2019 10:45

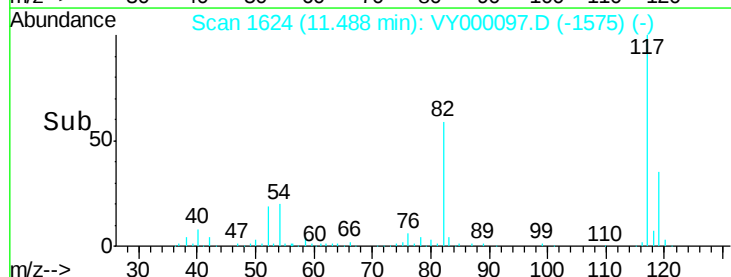
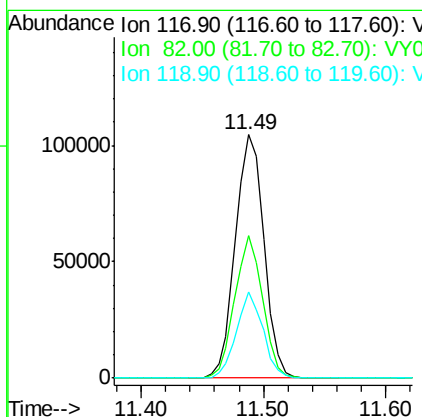
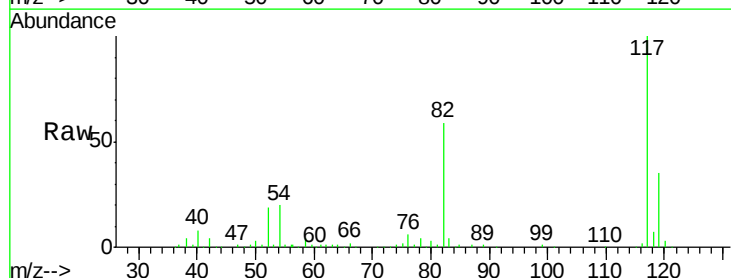
Instrument :
MSVOA_Y
ClientSampleId :

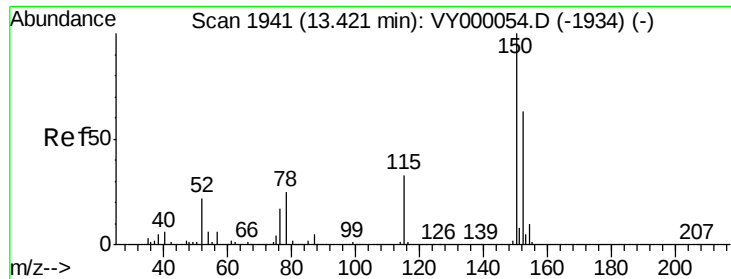
Tot Ion: 95 Resp: 75630
Ion Ratio Lower Upper
95 100
174 68.7 0.0 137.2
176 68.2 0.0 135.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1624
Delta R.T. -0.00 min
Lab File: VY000097.D
Acq: 20 Sep 2019 10:45

Tgt Ion: 117 Resp: 169150
Ion Ratio Lower Upper
117 100
82 58.8 43.5 65.3
119 35.2 24.6 36.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1942

Delta R.T. 0.01 min

Lab File: VY000097.D

Acq: 20 Sep 2019 10:45

Instrument :

MSVOA_Y

ClientSampleId :

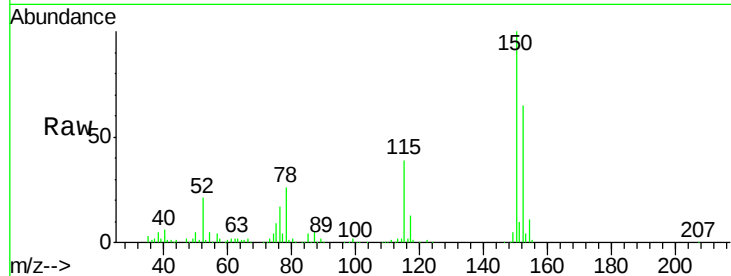
Tot Ion:152 Resp: 67306

Ion Ratio Lower Upper

152 100

115 63.9 30.7 92.1

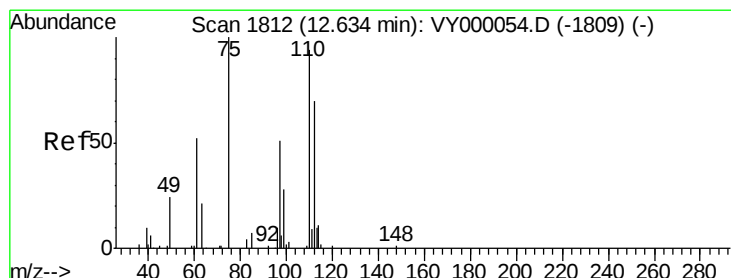
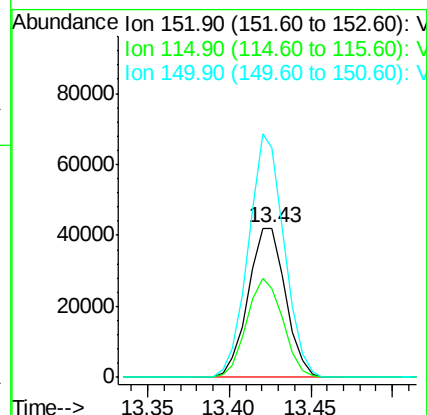
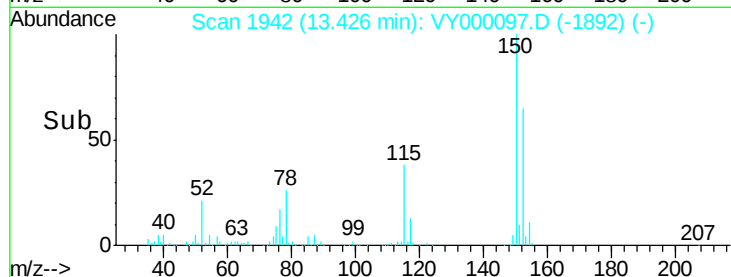
150 155.2 0.0 351.6



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: 40.657 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.16 min

Lab File: VY000097.D

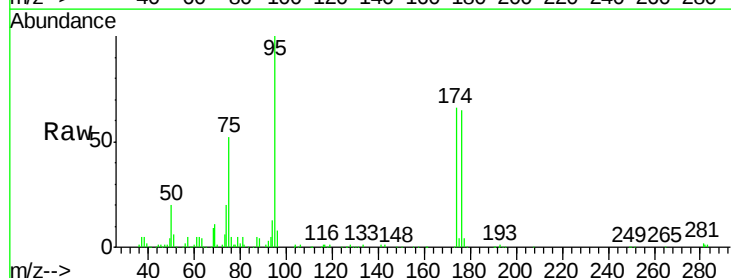
Acq: 20 Sep 2019 10:45

Tgt Ion: 75 Resp: 38502

Ion Ratio Lower Upper

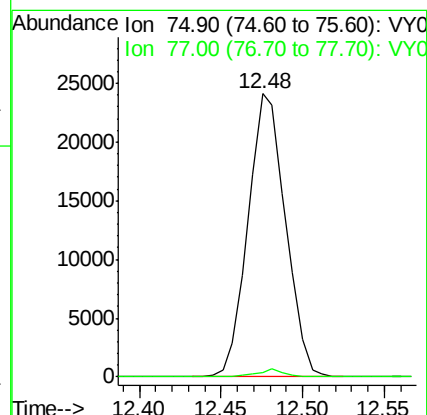
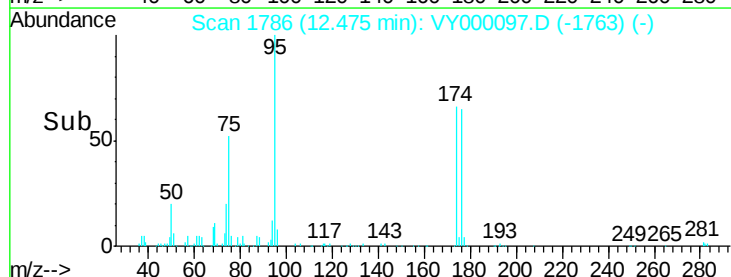
75 100

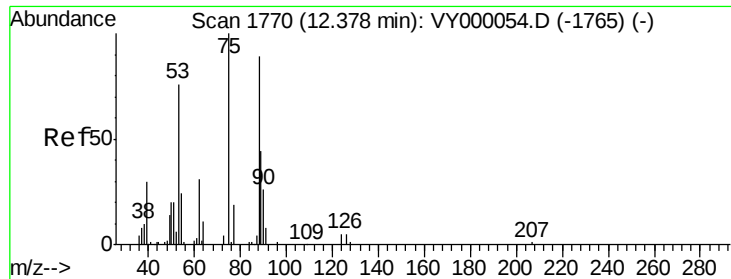
77 1.9 0.0 0.0#



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: 78.194 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. 0.10 min

Lab File: VY000097.D

Acq: 20 Sep 2019 10:45

Instrument :

MSVOA_Y

ClientSampleId :

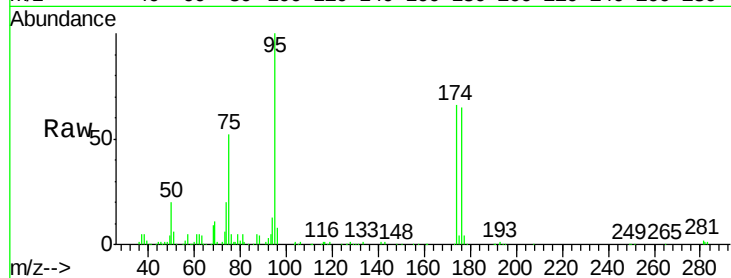
Tot Ion: 75 Resp: 38502

Ion Ratio Lower Upper

75 100

53 0.0 60.9 91.3#

89 0.2 35.3 52.9#



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

