

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091519\
 Data File : VW013001.D
 Acq On : 14 Sep 2019 18:30
 Operator : SY/VA
 Sample : K4852-20
 Misc : 7.97G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 16 06:54:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	238306	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	368059	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	302894	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	116170	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	125327	56.94	ug/l	0.00
Spiked Amount			Recovery	=	113.88%	
35) Dibromofluoromethane	7.88	113	106730	53.44	ug/l	0.00
Spiked Amount			Recovery	=	106.88%	
50) Toluene-d8	10.32	98	430646	55.11	ug/l	0.00
Spiked Amount			Recovery	=	110.22%	
62) 4-Bromofluorobenzene	12.62	95	135862	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	

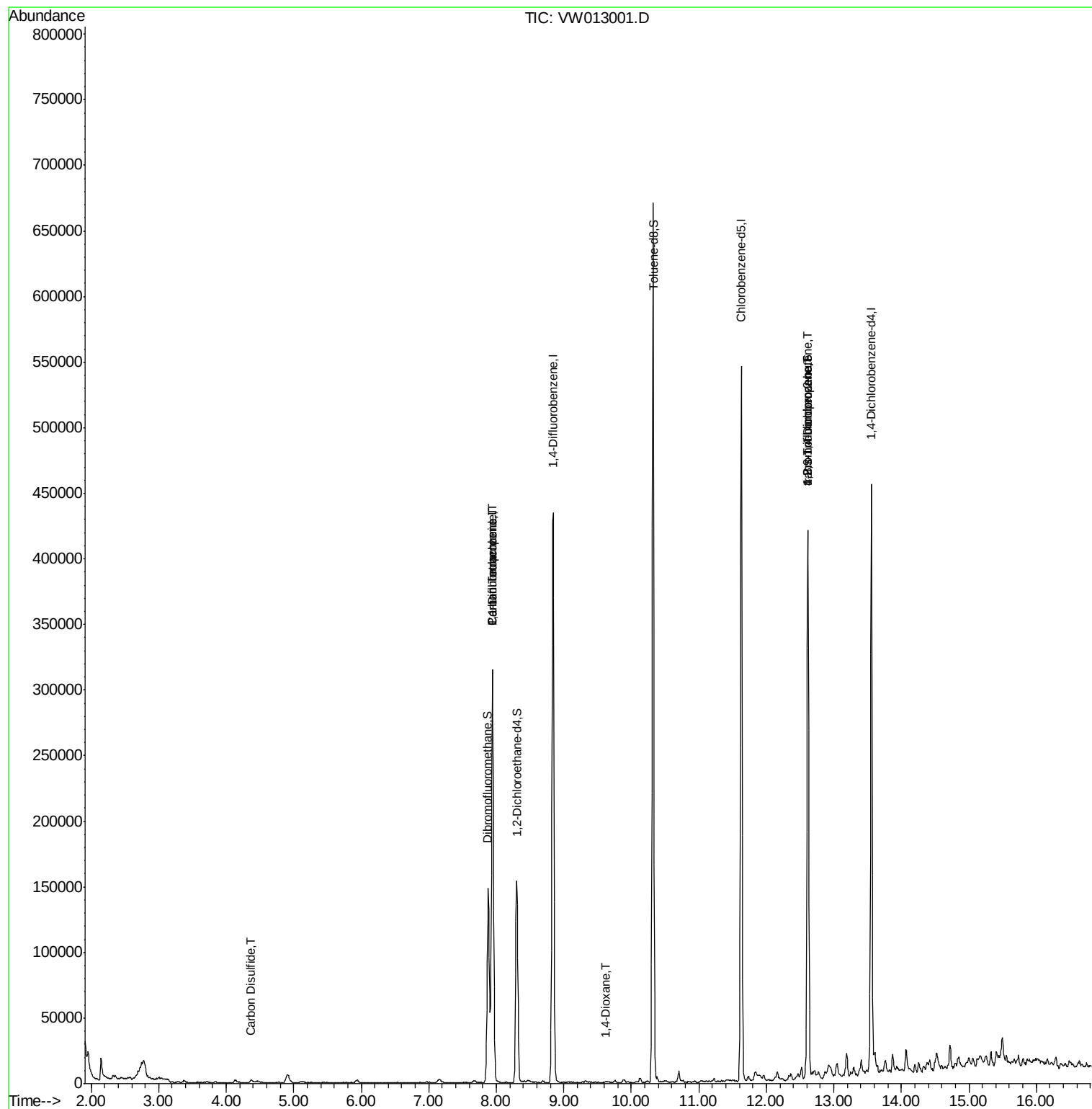
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.03	85	20	Below Cal	#	1
3) Chloromethane	2.20	50	228	Below Cal	#	80
11) Tert butyl alcohol	5.20	59	231	Below Cal	#	72
13) Acrolein	3.88	56	19	Below Cal	#	1
16) Acetone	4.14	43	4246	Below Cal		92
17) Carbon Disulfide	4.37	76	4431	1.352	ug/l #	93
20) Methylene Chloride	4.92	84	4517	Below Cal	#	87
26) 2,2-Dichloropropane	7.16	77	56	Below Cal	#	55
31) Cyclohexane	7.95	56	5354	Below Cal	#	8
36) 1,1-Dichloropropene	7.95	75	17820	6.059	ug/l #	51
38) Carbon Tetrachloride	7.94	117	22679	7.525	ug/l #	16
49) 1,4-Dioxane	9.62	88	19	1.085	ug/l #	20
76) 1,2,3-Trichloropropane	12.62	75	70191	68.980	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	70191	156.480	ug/l #	7

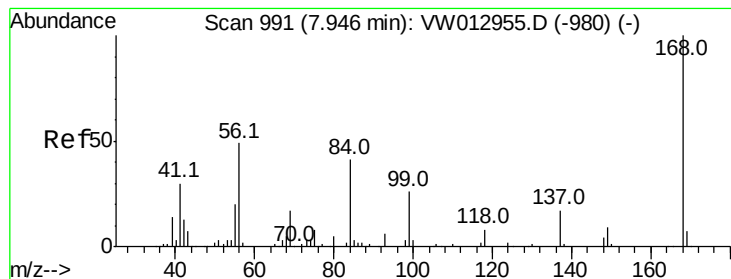
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

Instrument :

MSVOA_W

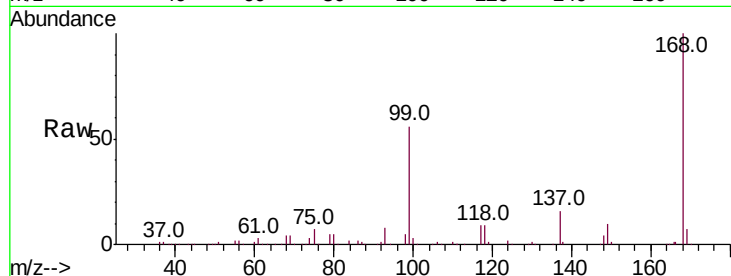
ClientSampled :

Tot Ion:168 Resp: 238306

Ion Ratio Lower Upper

168 100

99 56.1 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

60000

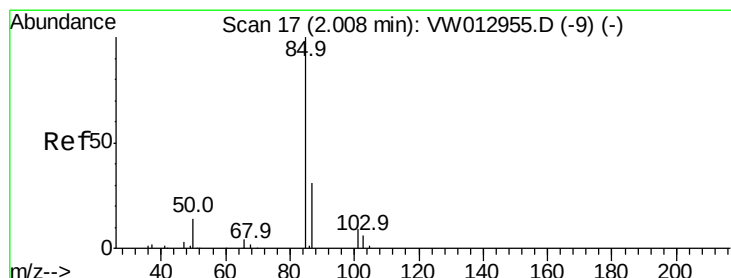
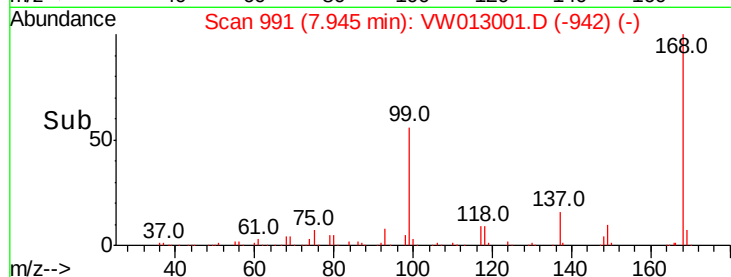
40000

20000

0

Time-->

7.90 8.00



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.03 min Scan# 20

Delta R.T. 0.02 min

Lab File: VW013001.D

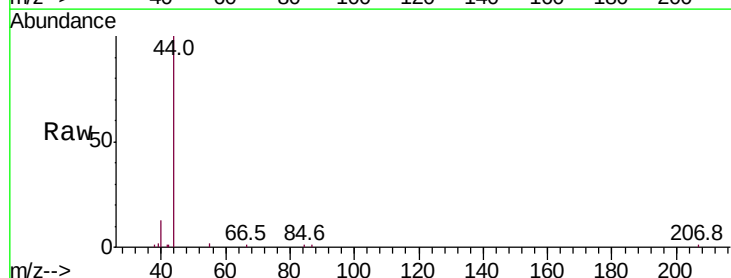
Acq: 14 Sep 2019 18:30

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

85 100

87 105.6 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.03

60

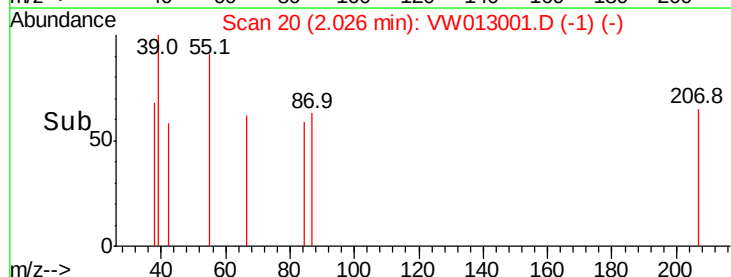
40

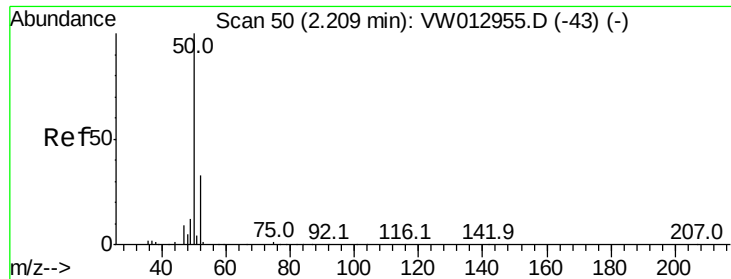
20

0

Time-->

2.01 2.02 2.03 2.04





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

Instrument :

MSVOA_W

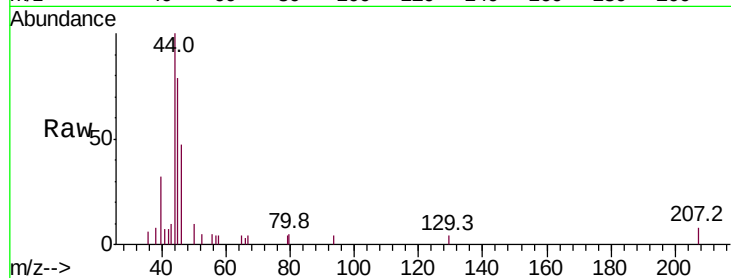
ClientSampled :

Tot Ion: 50 Resp: 228

Ion Ratio Lower Upper

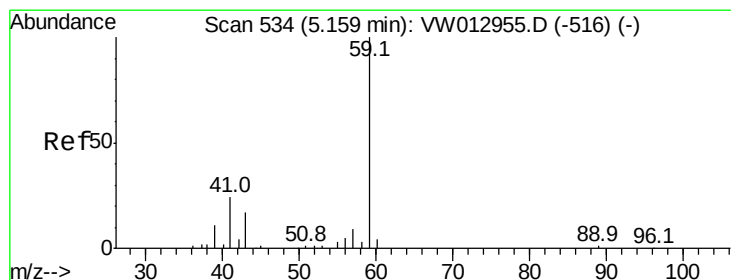
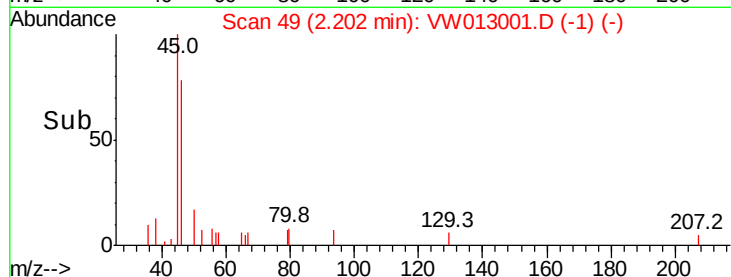
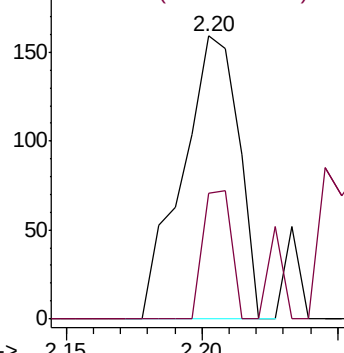
50 100

52 44.7 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 540

Delta R.T. 0.04 min

Lab File: VW013001.D

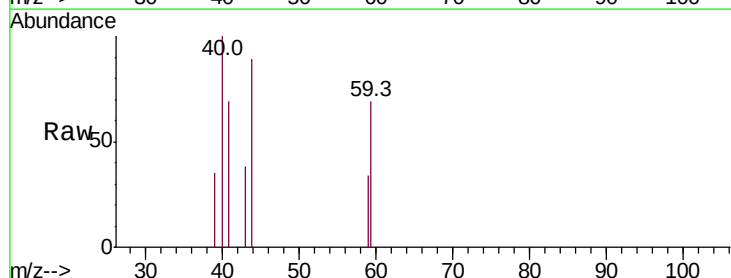
Acq: 14 Sep 2019 18:30

Tgt Ion: 59 Resp: 231

Ion Ratio Lower Upper

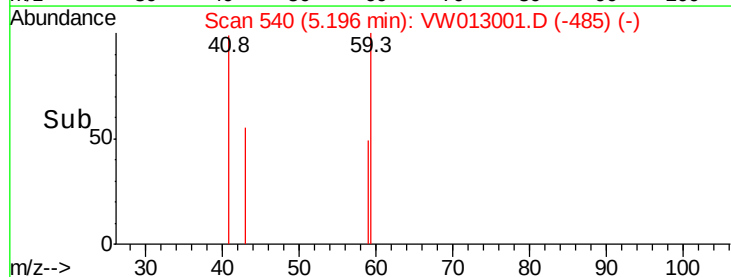
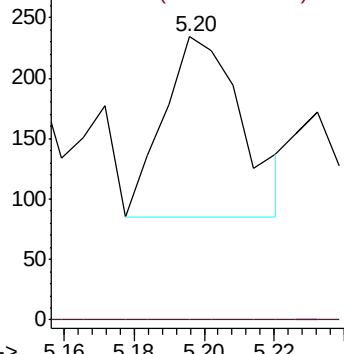
59 100

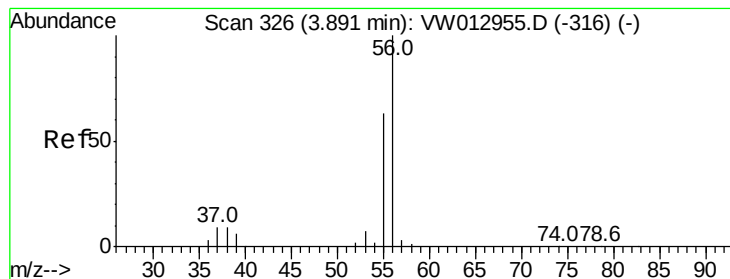
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

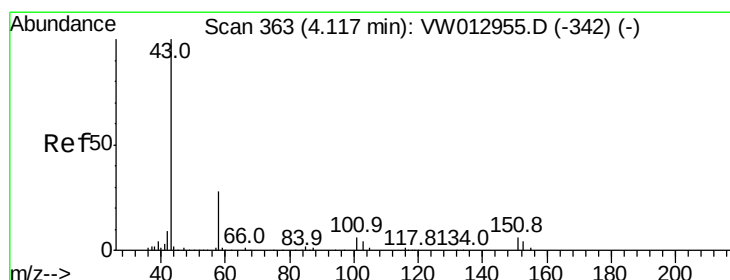
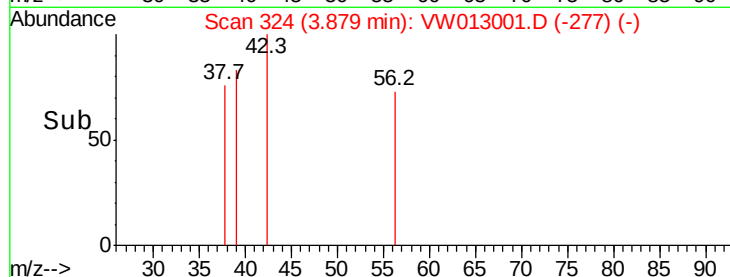
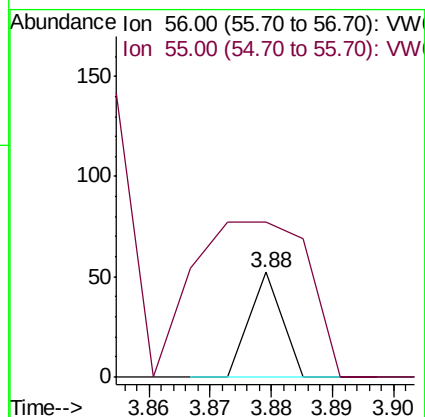
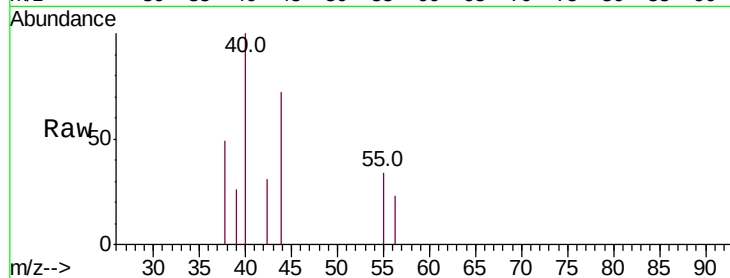
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 431.6 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW013001.D

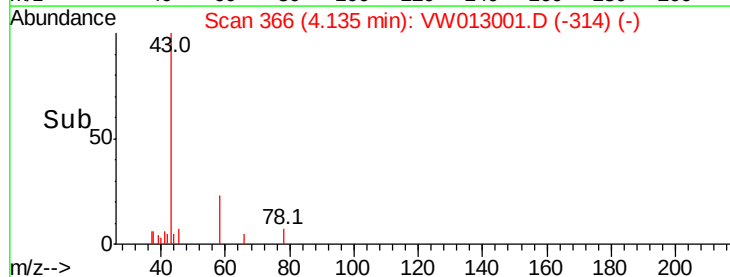
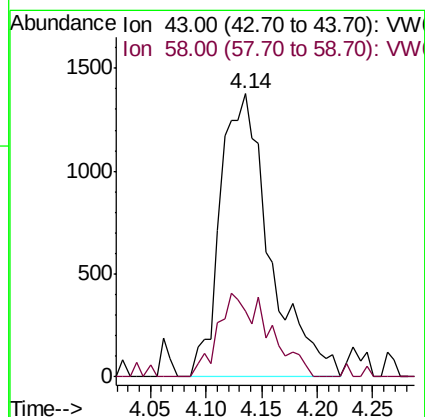
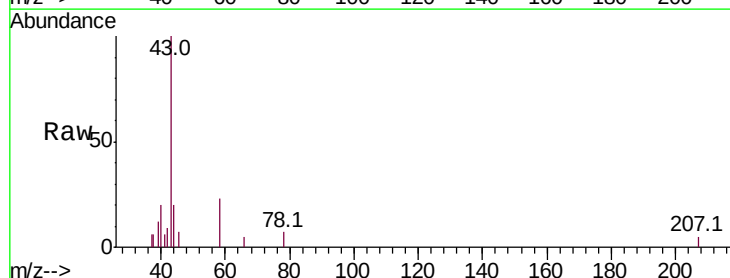
Acq: 14 Sep 2019 18:30

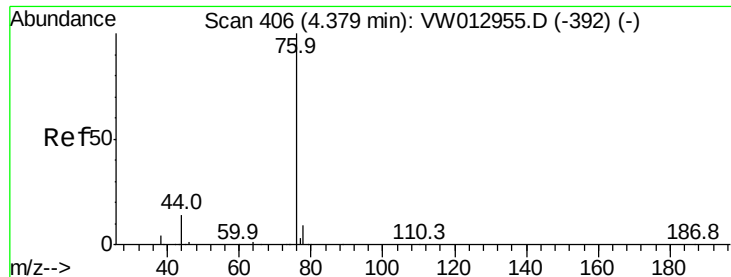
Tgt Ion: 43 Resp: 4246

Ion Ratio Lower Upper

43 100

58 23.5 22.3 33.5





#17

Carbon Disulfide

Concen: 1.352 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

Instrument :

MSVOA_W

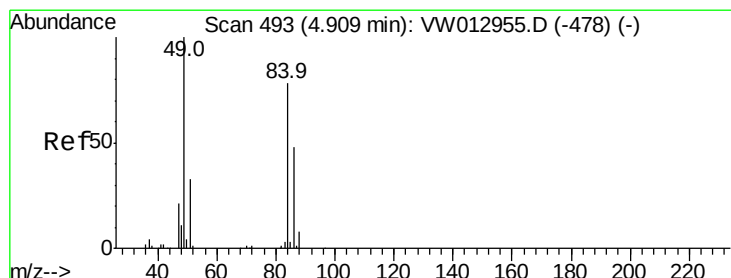
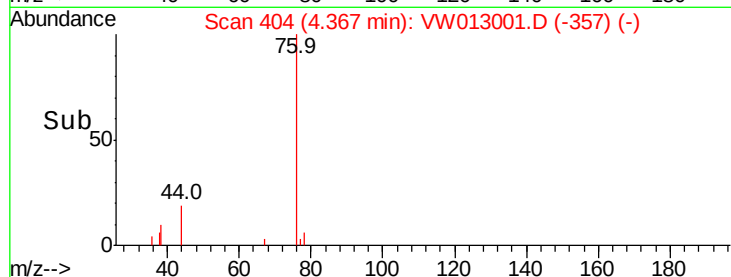
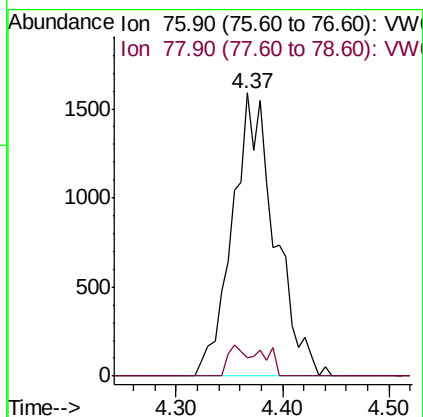
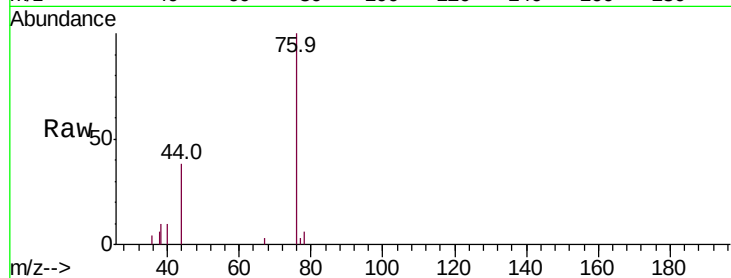
ClientSampleId :

Tot Ion: 76 Resp: 4431

Ion Ratio Lower Upper

76 100

78 6.3 7.0 10.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

Tgt Ion: 84 Resp: 4517

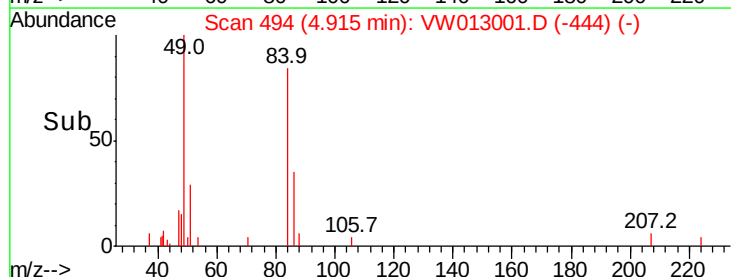
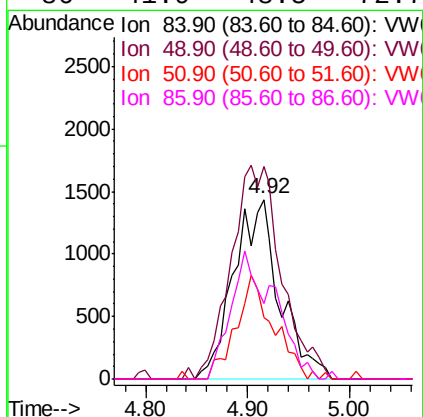
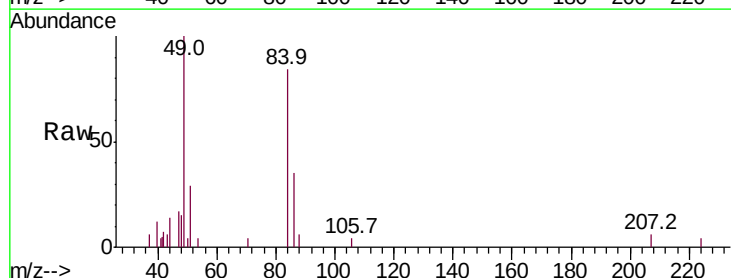
Ion Ratio Lower Upper

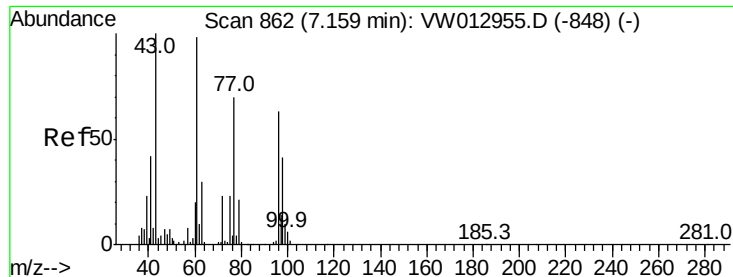
84 100

49 118.5 102.0 153.0

51 34.6 34.0 51.0

86 41.9 48.5 72.7#

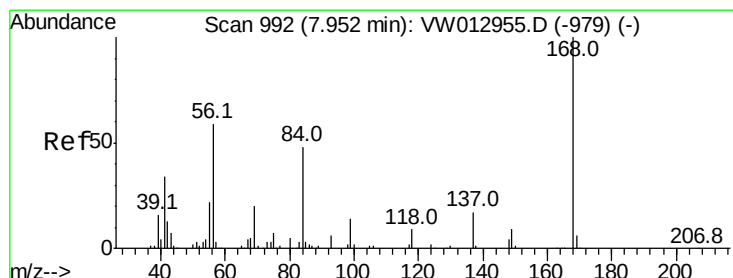
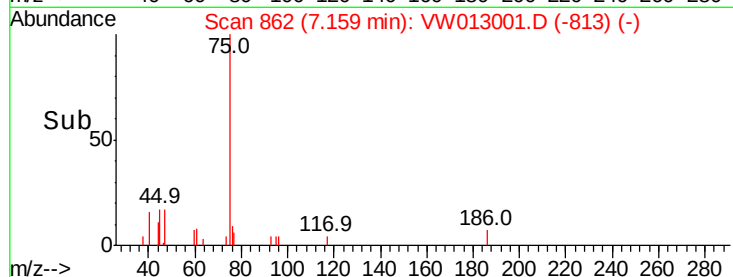
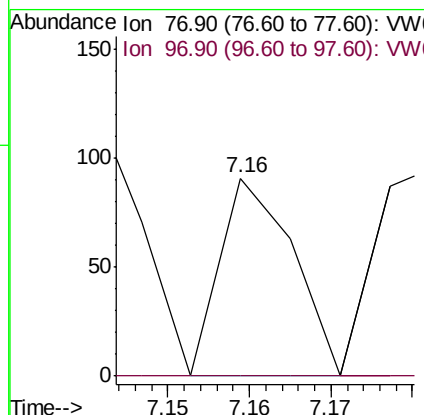
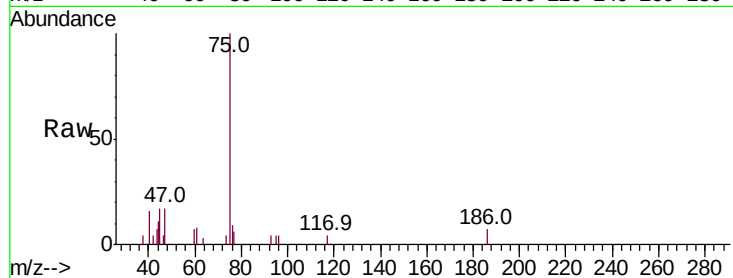




#26
 2,2-Dichloropropane
 Concen: Below Cal
 RT: 7.16 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: VW013001.D
 Acq: 14 Sep 2019 18:30

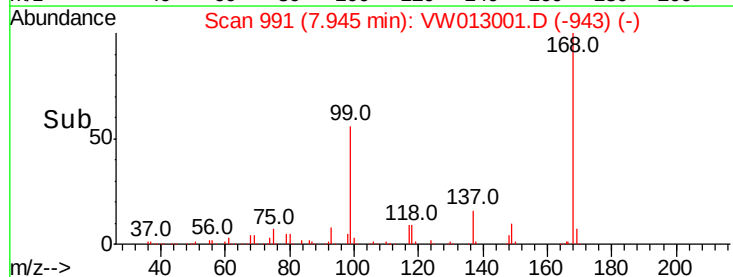
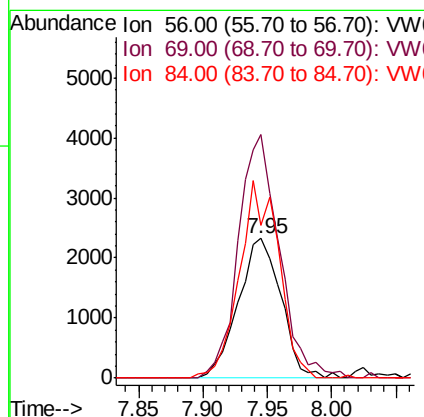
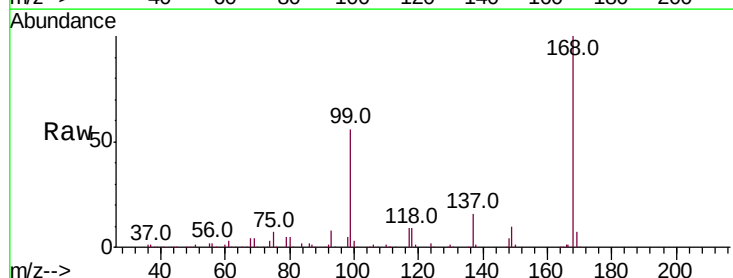
Instrument :
 MSVOA_W
 ClientSampled :

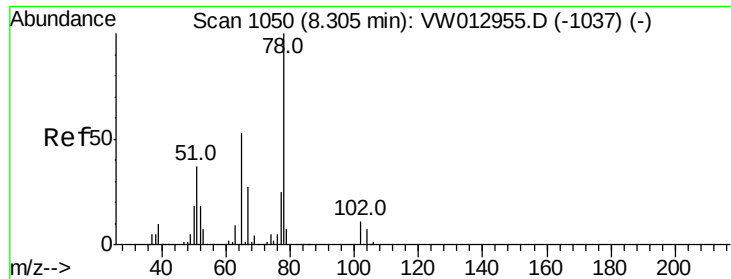
Tot Ion: 77 Resp: 56
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.7 32.1#



#31
 Cyclohexane
 Concen: Below Cal
 RT: 7.95 min Scan# 991
 Delta R.T. -0.01 min
 Lab File: VW013001.D
 Acq: 14 Sep 2019 18:30

Tgt Ion: 56 Resp: 5354
 Ion Ratio Lower Upper
 56 100
 69 174.1 27.0 40.6#
 84 109.3 66.2 99.2#

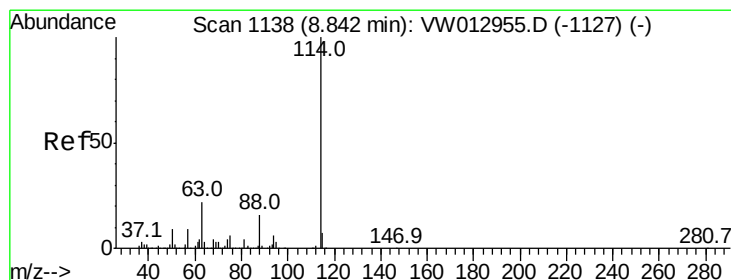
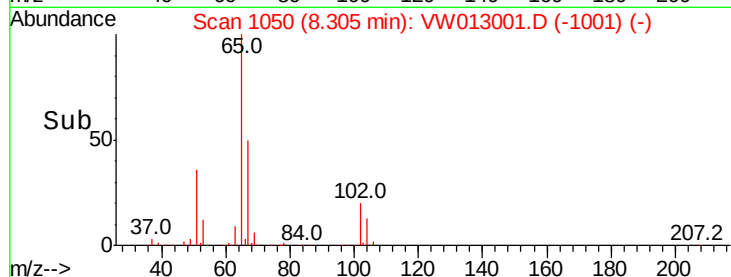
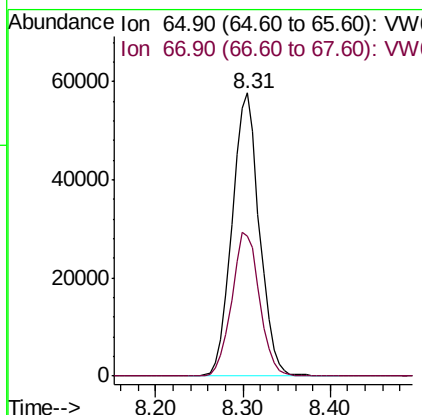
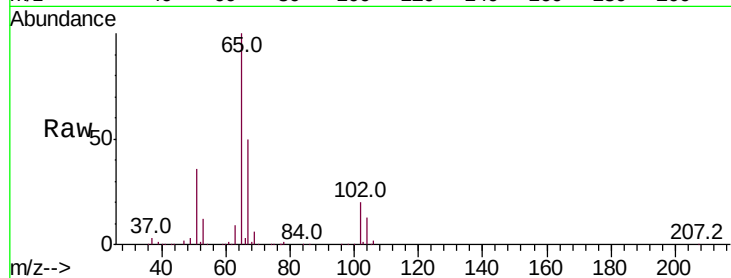




#33
 1,2-Dichloroethane-d4
 Concen: 56.943 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013001.D
 Acq: 14 Sep 2019 18:30

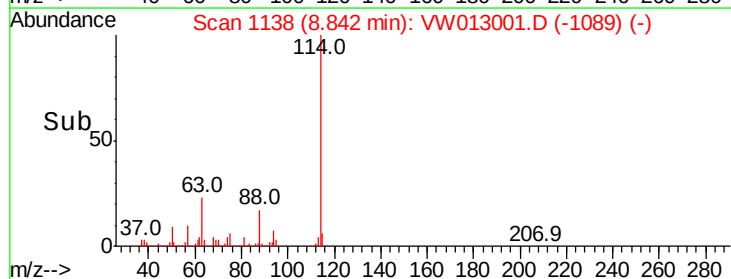
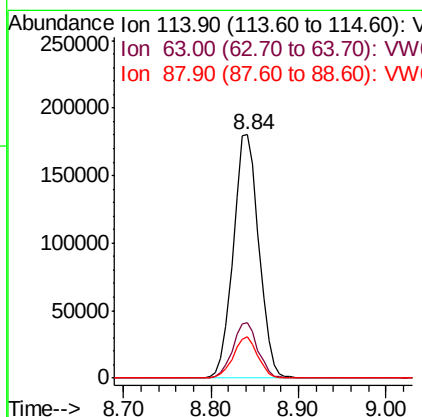
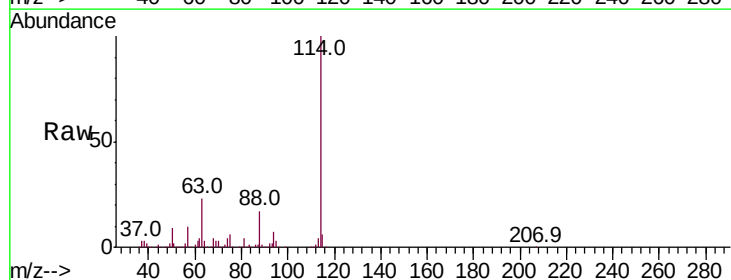
Instrument :
 MSVOA_W
 ClientSampleId :

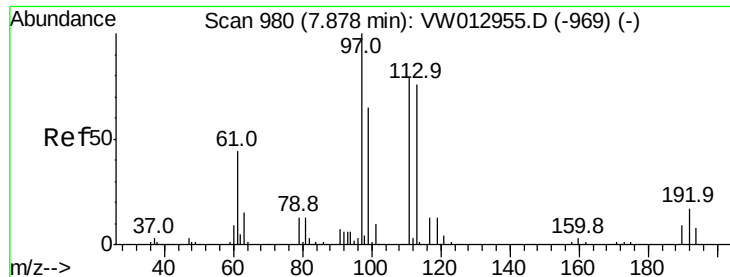
Tot Ion: 65 Resp: 125327
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013001.D
 Acq: 14 Sep 2019 18:30

Tgt Ion: 114 Resp: 368059
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 43.4
 88 16.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 53.442 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

Instrument :
MSVOA_W
ClientSampleId :

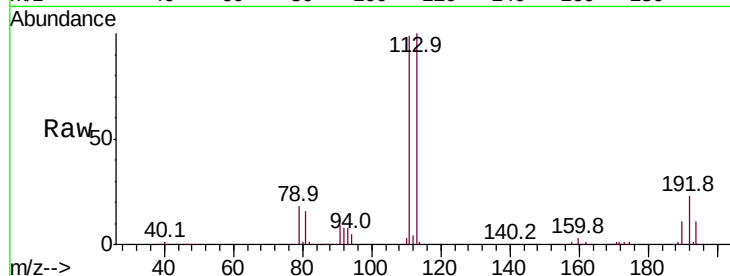
Tot Ion:113 Resp: 106730

Ion Ratio Lower Upper

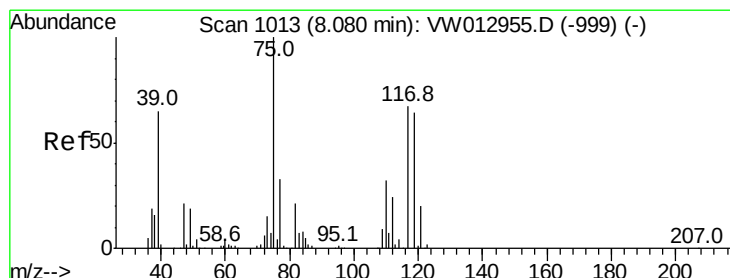
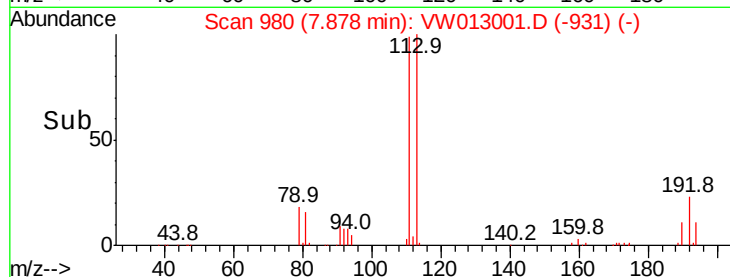
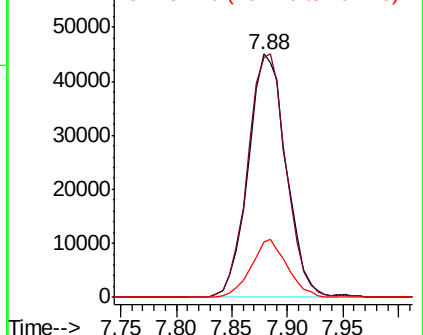
113 100

111 101.8 82.8 124.2

192 22.6 17.8 26.8



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: 6.059 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

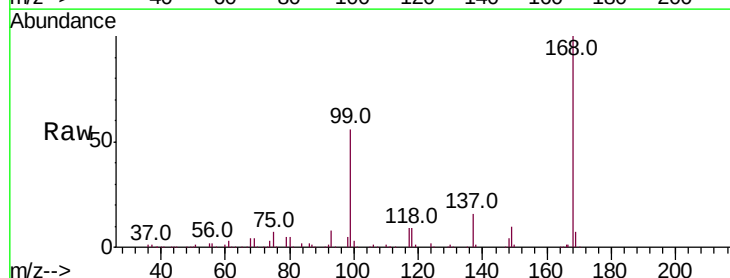
Tgt Ion: 75 Resp: 17820

Ion Ratio Lower Upper

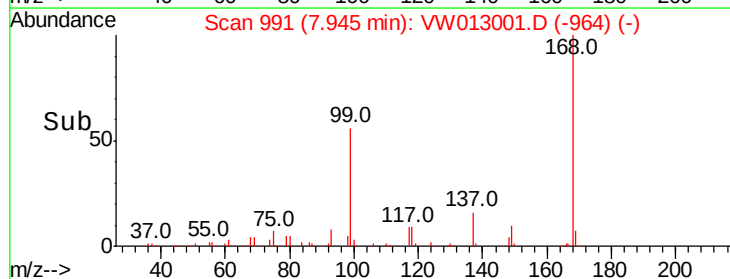
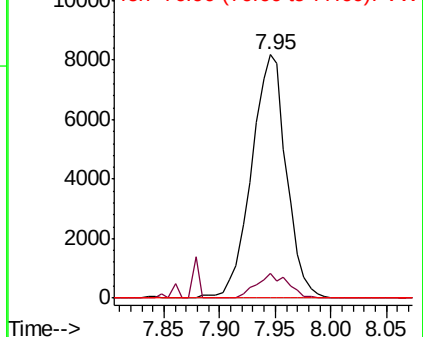
75 100

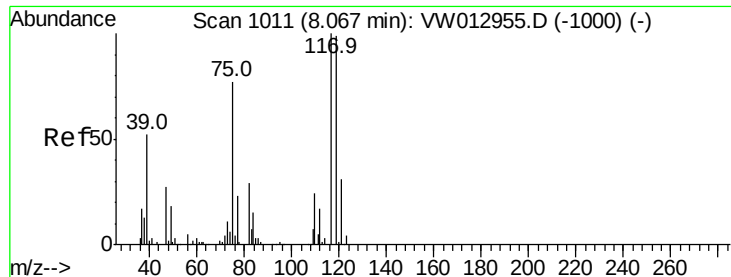
110 9.1 16.4 49.1#

77 0.0 25.1 37.7#



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





#38

Carbon Tetrachloride

Concen: 7.525 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

Instrument :

MSVOA_W

ClientSampled :

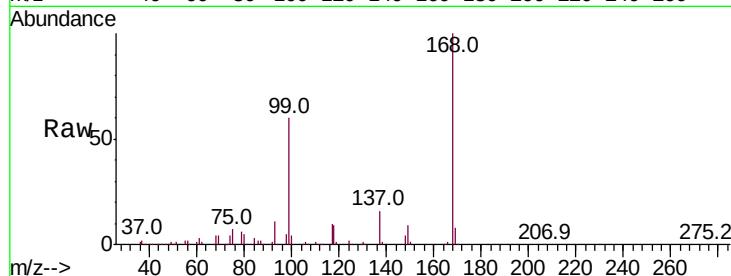
Tot Ion:117 Resp: 22679

Ion Ratio Lower Upper

117 100

119 7.5 79.4 119.0#

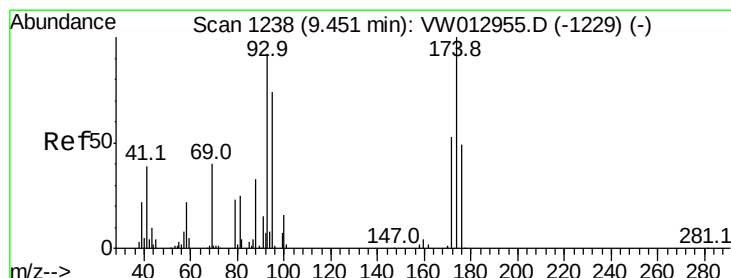
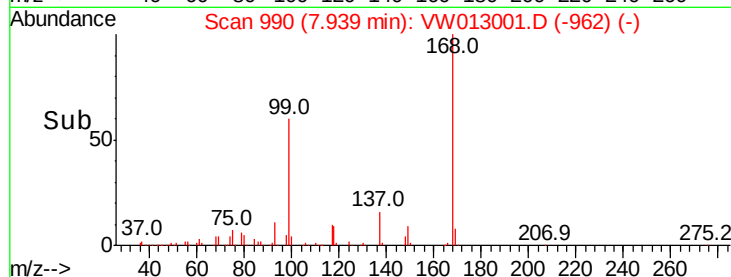
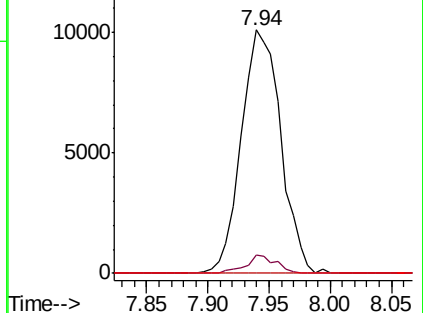
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.085 ug/l

RT: 9.62 min Scan# 1266

Delta R.T. 0.17 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

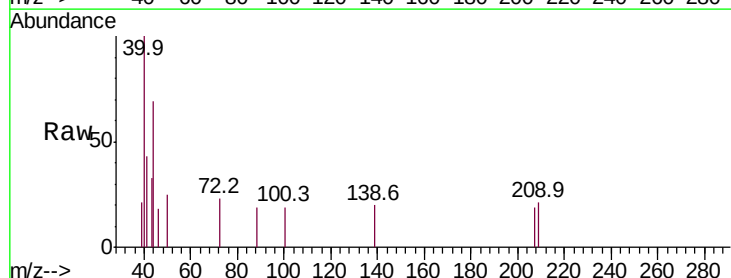
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 31.3 46.9#

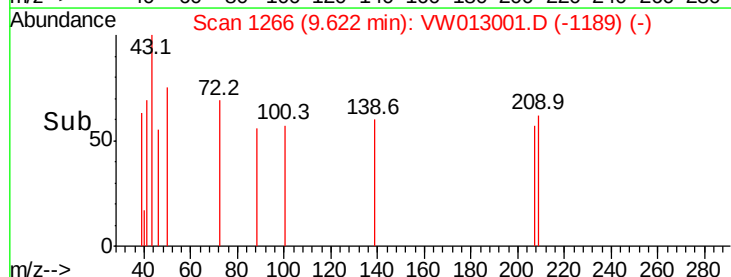
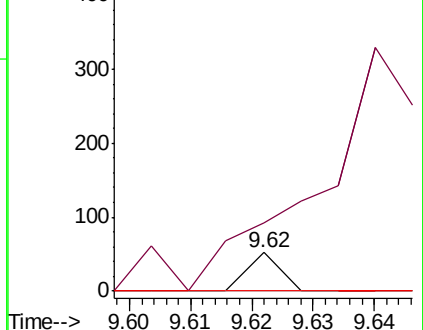
58 0.0 60.2 90.2#

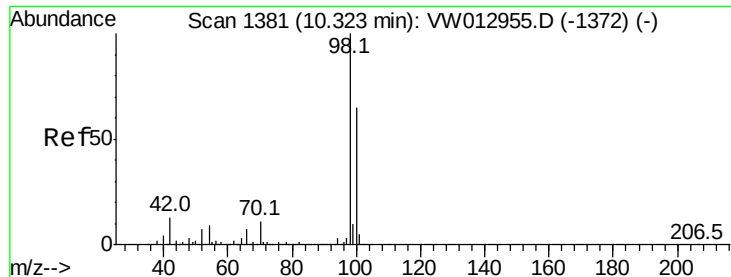


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

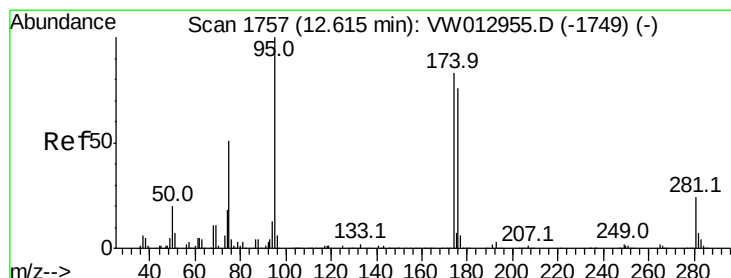
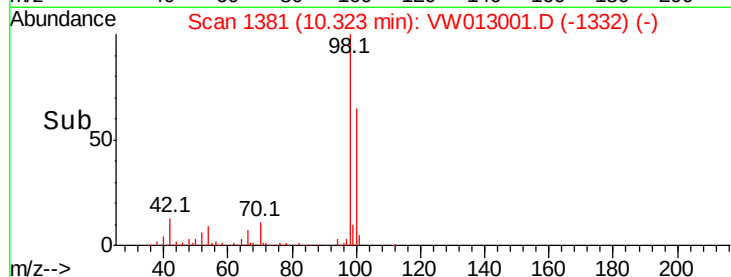
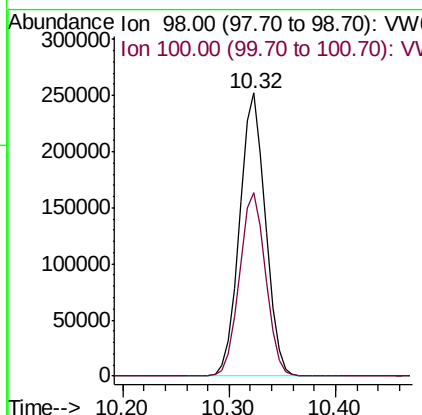
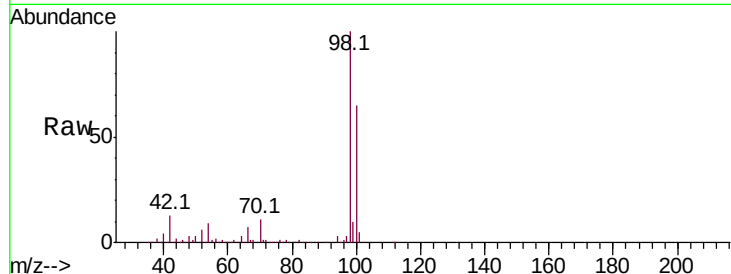




#50
Toluene-d8
Concen: 55.105 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013001.D
Acq: 14 Sep 2019 18:30

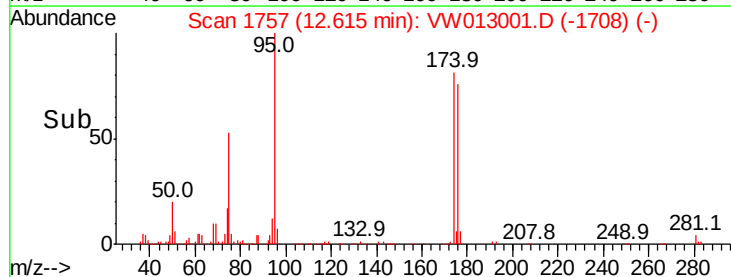
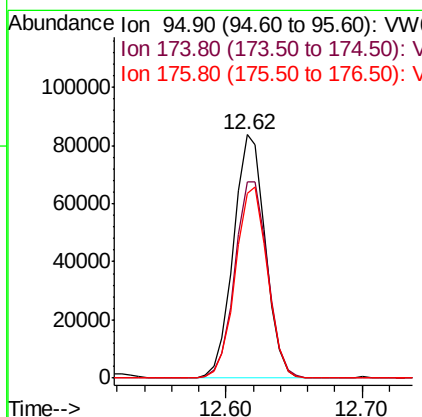
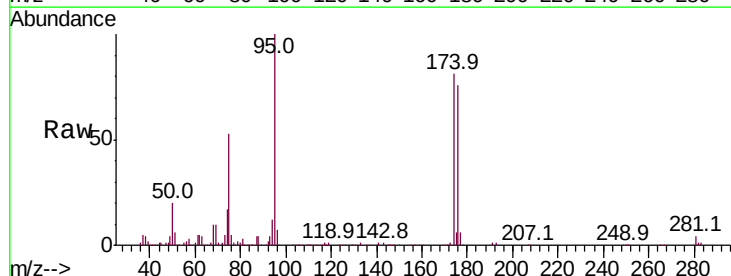
Instrument :
MSVOA_W
ClientSampled :

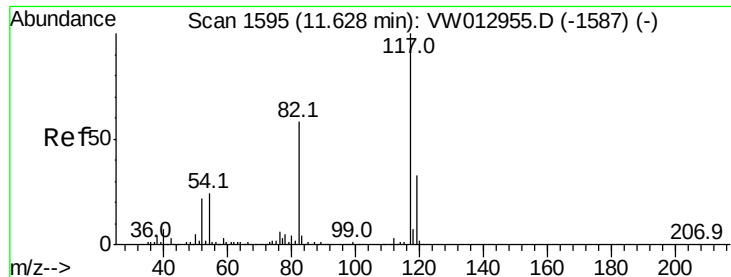
Tot Ion: 98 Resp: 430646
Ion Ratio Lower Upper
98 100
100 65.6 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 48.348 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013001.D
Acq: 14 Sep 2019 18:30

Tgt Ion: 95 Resp: 135862
Ion Ratio Lower Upper
95 100
174 83.4 0.0 170.4
176 79.5 0.0 164.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

Instrument :

MSVOA_W

ClientSampled :

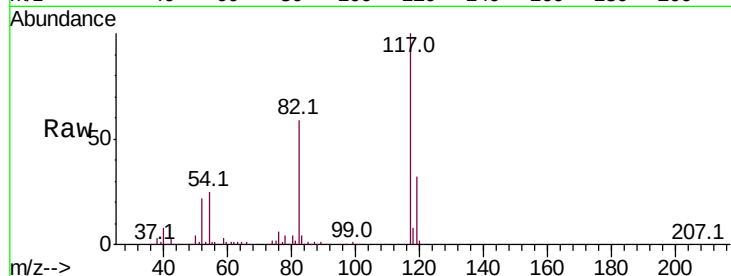
Tot Ion:117 Resp: 302894

Ion Ratio Lower Upper

117 100

82 58.7 46.3 69.5

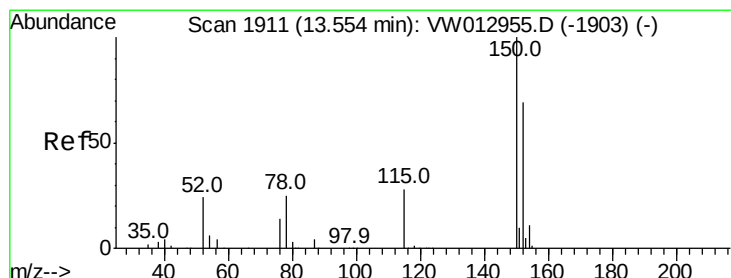
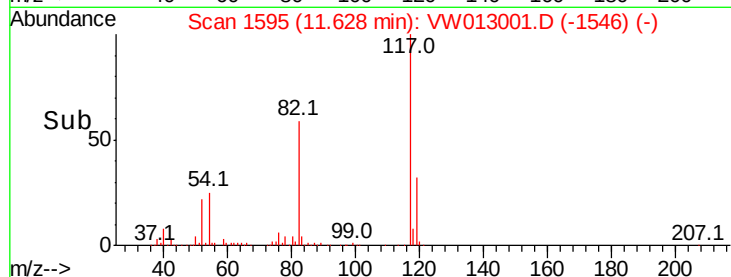
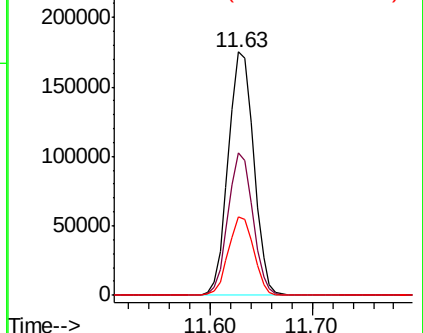
119 32.4 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

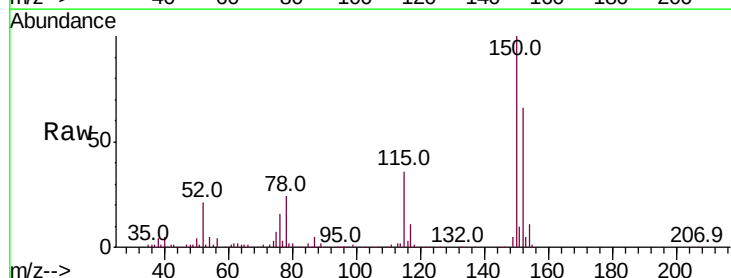
Tgt Ion:152 Resp: 116170

Ion Ratio Lower Upper

152 100

115 58.3 28.8 86.4

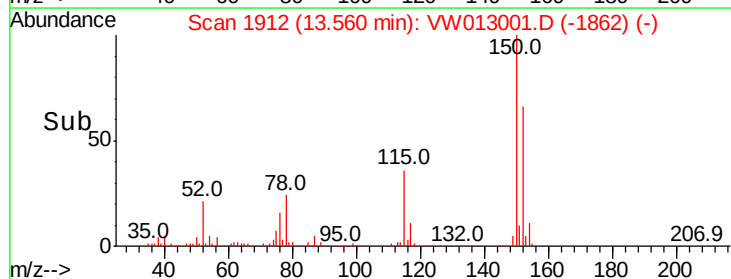
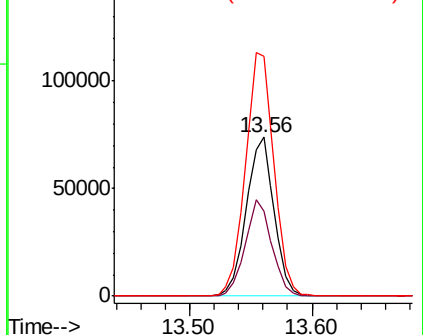
150 157.1 0.0 340.2

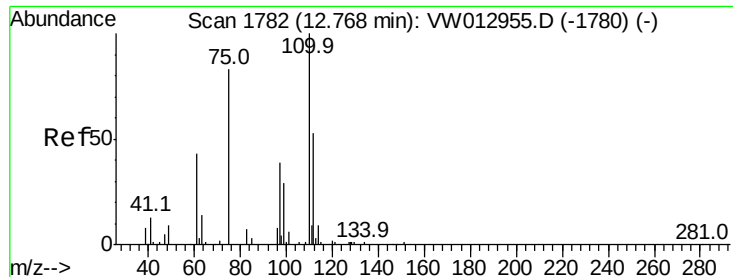


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 68.980 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

Instrument :

MSVOA_W

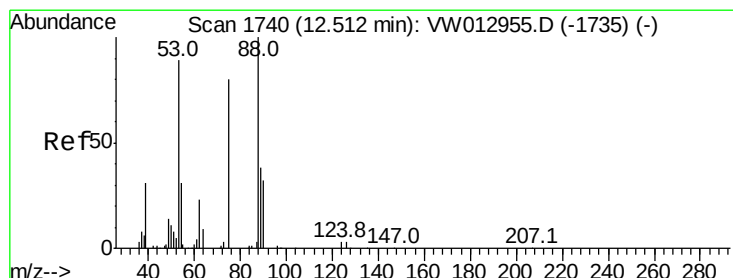
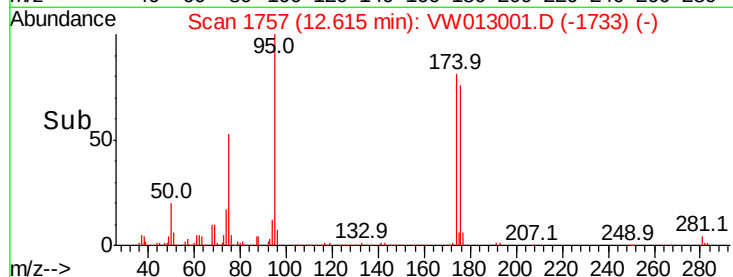
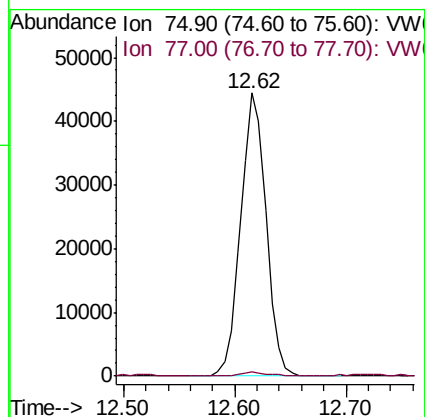
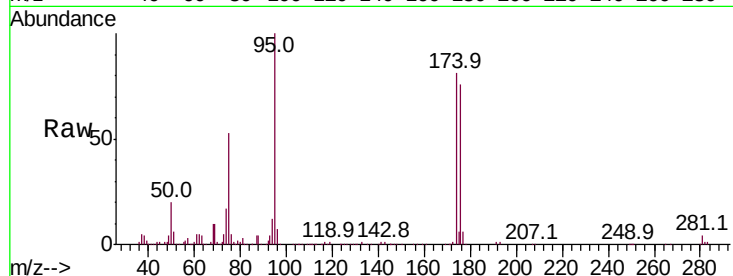
ClientSampleId :

Tot Ion: 75 Resp: 70191

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 156.480 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013001.D

Acq: 14 Sep 2019 18:30

Tgt Ion: 75 Resp: 70191

Ion Ratio Lower Upper

75 100

53 0.0 85.6 128.4#

89 0.1 37.2 55.8#

