

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\
 Data File : VW013190.D
 Acq On : 20 Sep 2019 18:51
 Operator : SY/VA
 Sample : K4967-02
 Misc : 6.42G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 21 04:53:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	334303	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	499881	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	421793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	186266	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	147765	54.16	ug/l	0.00
Spiked Amount			Recovery	=	108.32%	
35) Dibromofluoromethane	7.88	113	140979	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
50) Toluene-d8	10.32	98	576137	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
62) 4-Bromofluorobenzene	12.62	95	183031	46.57	ug/l	0.00
Spiked Amount			Recovery	=	93.14%	

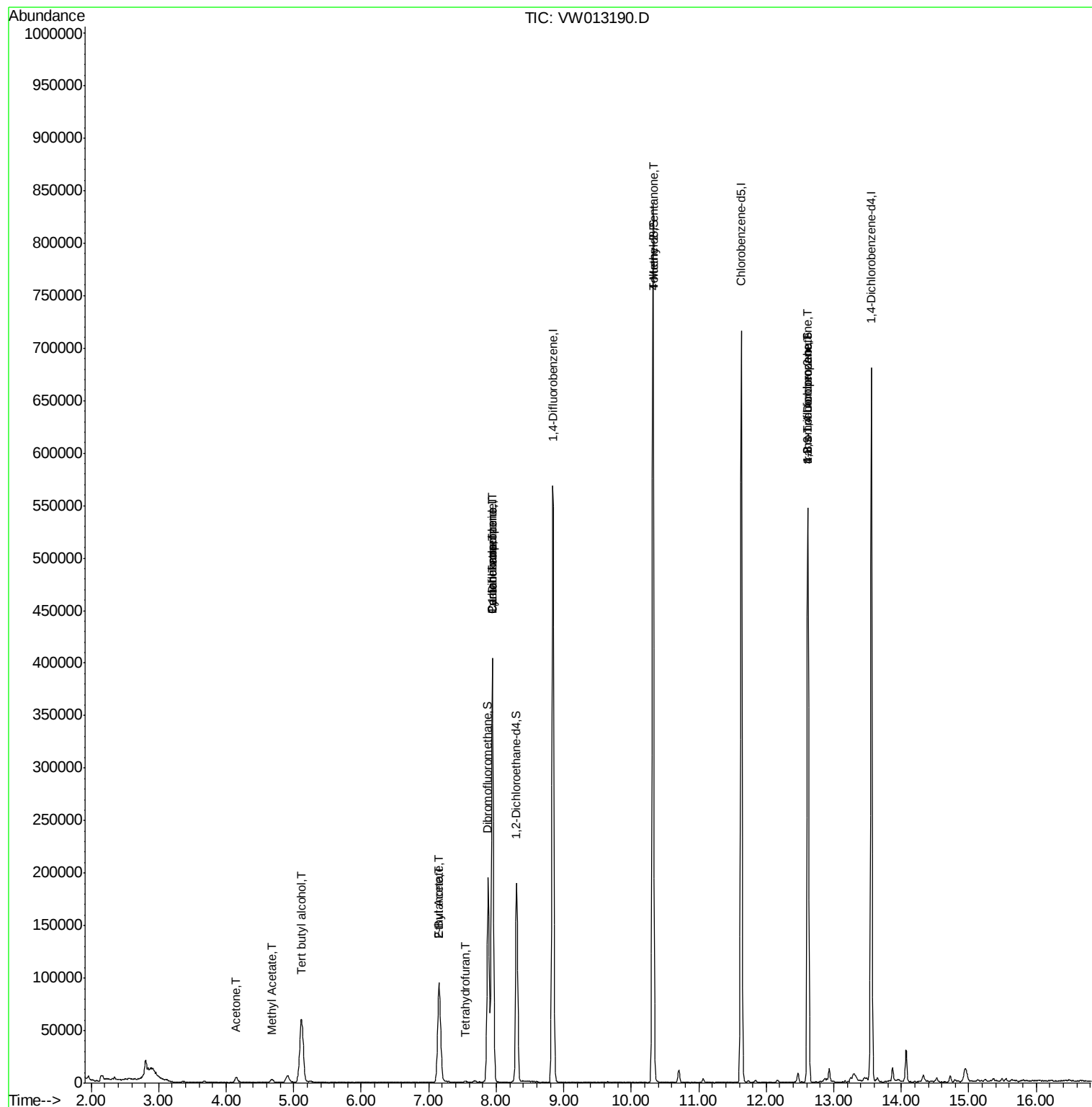
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	58601	300.403	ug/l #	73
16) Acetone	4.14	43	10711	17.408	ug/l	90
18) Methyl Acetate	4.67	43	3539	2.046	ug/l #	51
20) Methylene Chloride	4.93	84	5971	Below Cal	#	52
25) 2-Butanone	7.15	43	5419	5.867	ug/l #	71
26) 2,2-Dichloropropane	7.15	77	7083	Below Cal	#	52
29) Tetrahydrofuran	7.54	42	950	1.677	ug/l #	62
31) Cyclohexane	7.95	56	5989	1.013	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	21824	4.508	ug/l #	48
37) Ethyl Acetate	7.15	43	5419	2.633	ug/l #	1
38) Carbon Tetrachloride	7.95	117	30018	6.916	ug/l #	16
51) 4-Methyl-2-Pentanone	10.32	43	2520	1.275	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	87685	53.305	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	87685	119.611	ug/l #	12

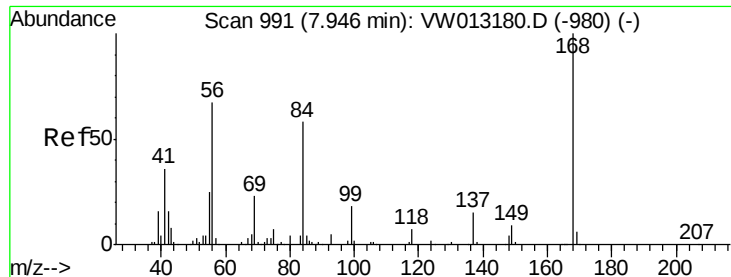
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013190.D

Acq: 20 Sep 2019 18:51

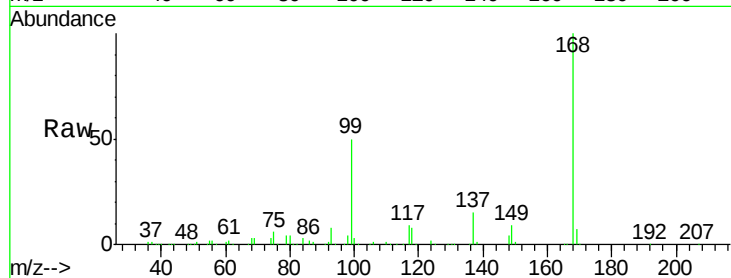
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 334303

Ion Ratio Lower Upper

168 100

99 49.6 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

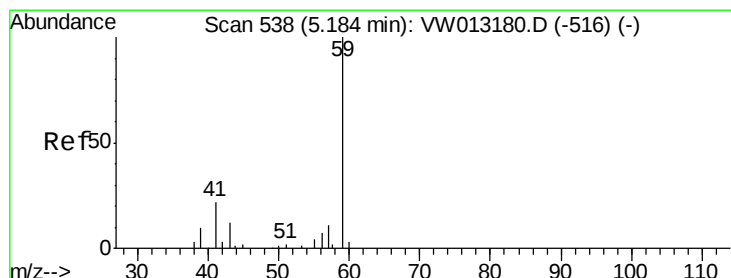
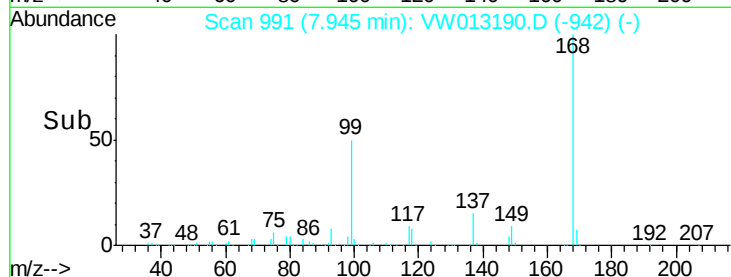
100000

50000

0

7.80 7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 300.403 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.07 min

Lab File: VW013190.D

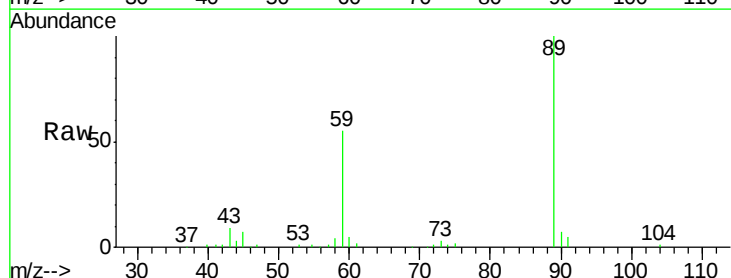
Acq: 20 Sep 2019 18:51

Tgt Ion: 59 Resp: 58601

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

15000

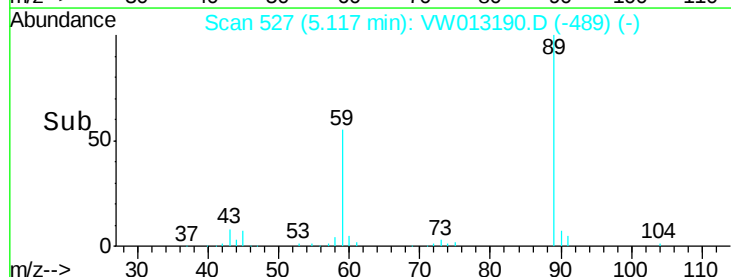
10000

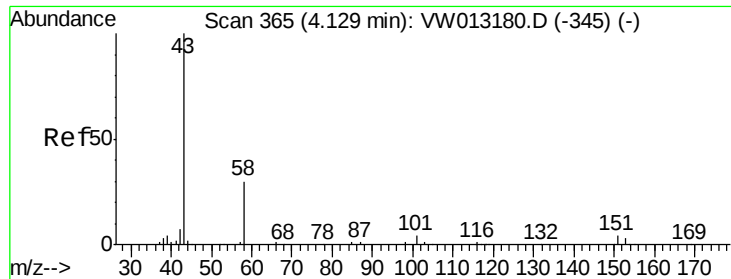
5000

0

5.00 5.10 5.20

Time-->





#16

Acetone

Concen: 17.408 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW013190.D

Acq: 20 Sep 2019 18:51

Instrument :

MSVOA_W

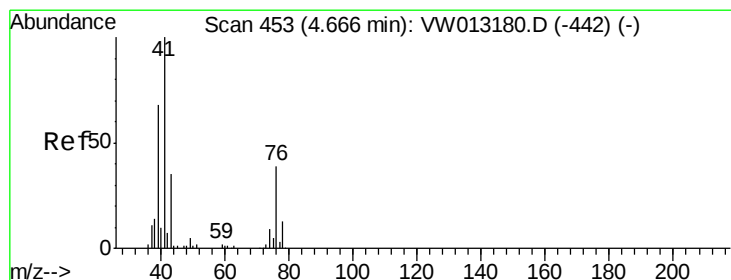
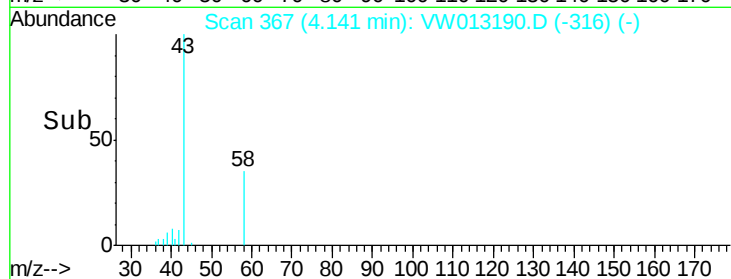
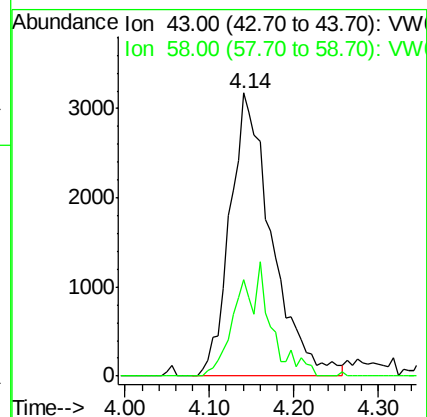
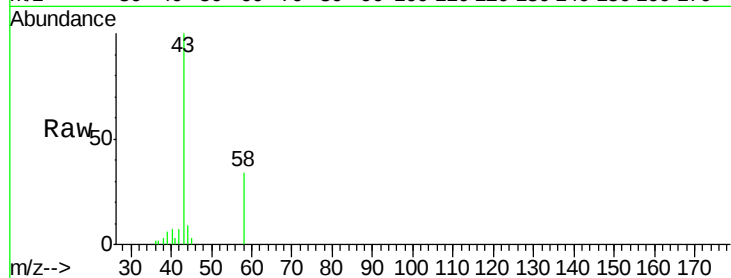
ClientSampleId :

Tot Ion: 43 Resp: 10711

Ion Ratio Lower Upper

43 100

58 35.4 24.1 36.1



#18

Methyl Acetate

Concen: 2.046 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW013190.D

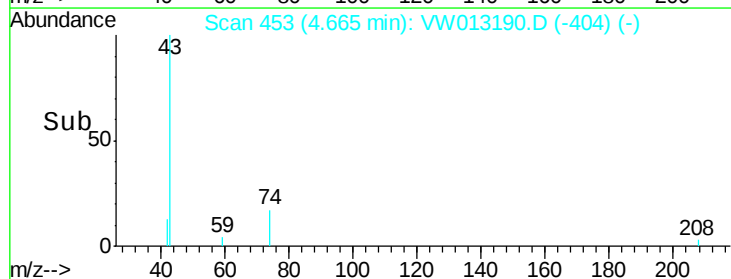
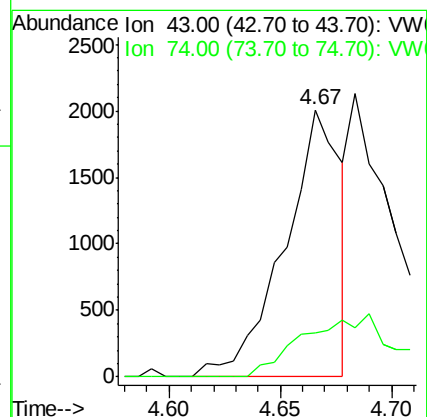
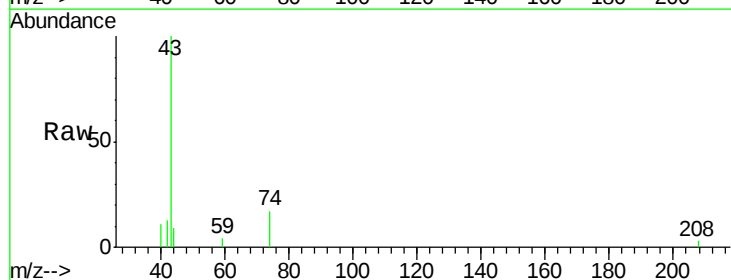
Acq: 20 Sep 2019 18:51

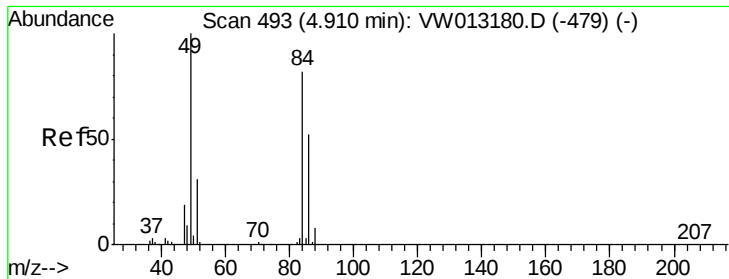
Tgt Ion: 43 Resp: 3539

Ion Ratio Lower Upper

43 100

74 0.0 19.3 28.9#

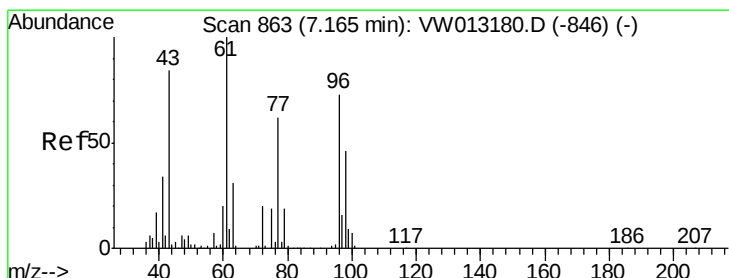
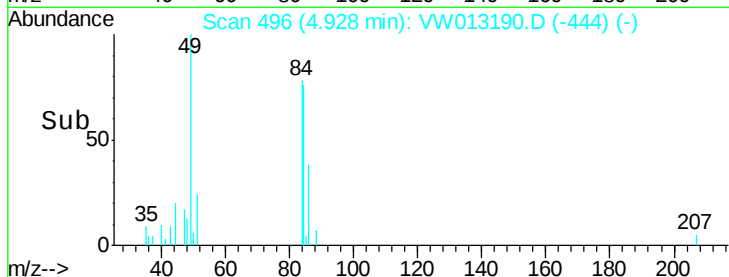
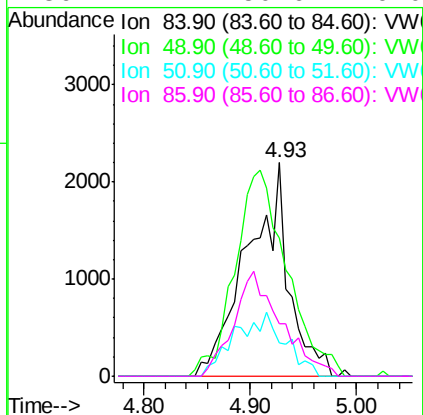
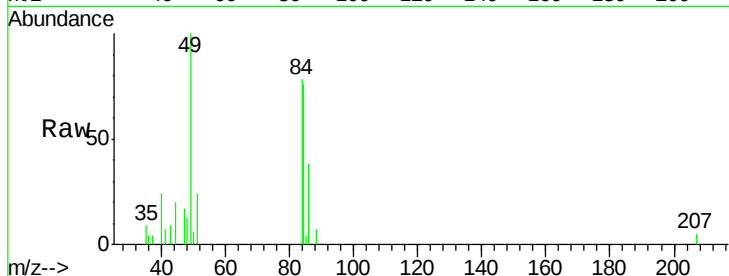




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.93 min Scan# 496
Delta R.T. 0.02 min
Lab File: VW013190.D
Acq: 20 Sep 2019 18:51

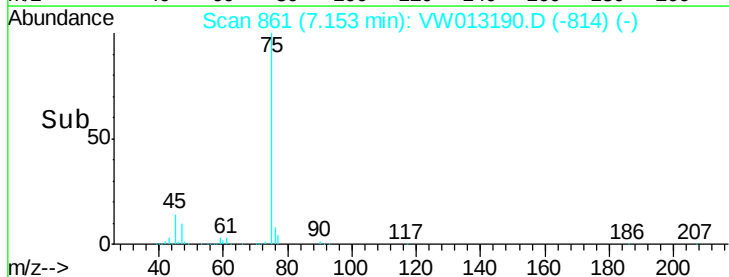
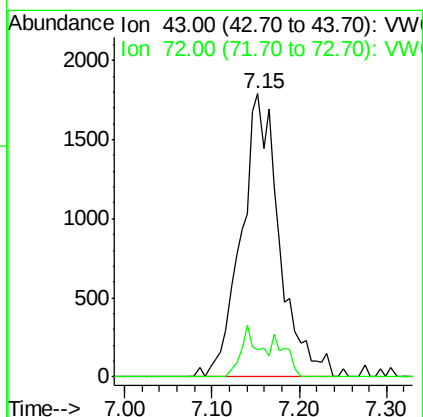
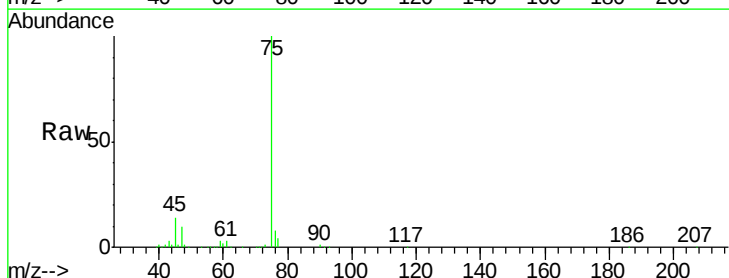
Instrument :
MSVOA_W
ClientSampleId :

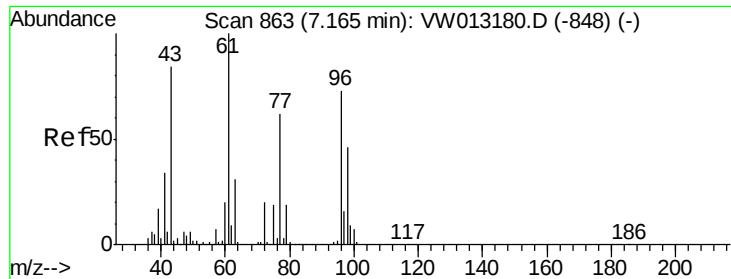
Tot Ion: 84 Resp: 5971
Ion Ratio Lower Upper
84 100
49 64.9 97.6 146.4#
51 15.3 30.2 45.2#
86 24.7 50.6 76.0#



#25
2-Butanone
Concen: 5.867 ug/l
RT: 7.15 min Scan# 861
Delta R.T. -0.01 min
Lab File: VW013190.D
Acq: 20 Sep 2019 18:51

Tgt Ion: 43 Resp: 5419
Ion Ratio Lower Upper
43 100
72 9.8 19.4 29.0#





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW013190.D

Acq: 20 Sep 2019 18:51

Instrument :

MSVOA_W

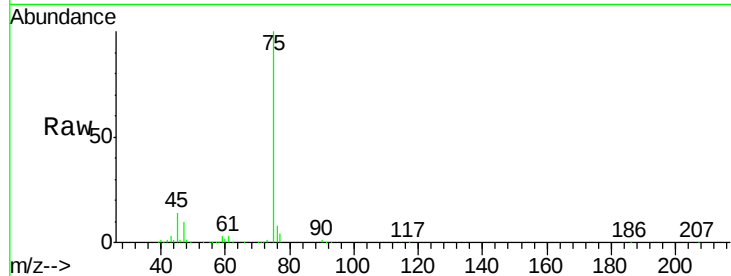
ClientSampled :

Tot Ion: 77 Resp: 7083

Ion Ratio Lower Upper

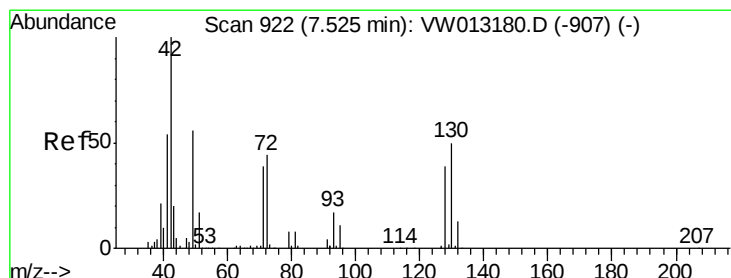
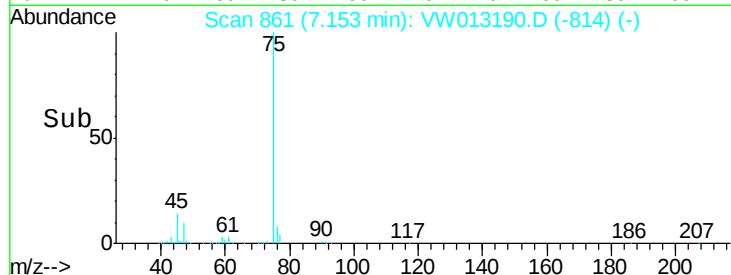
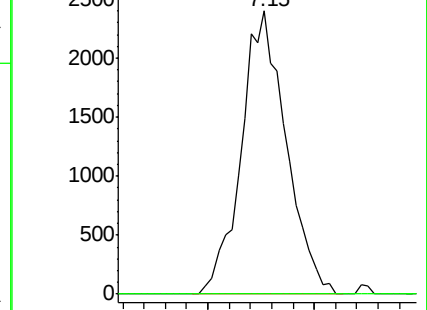
77 100

97 0.0 11.8 35.4#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



#29

Tetrahydrofuran

Concen: 1.677 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW013190.D

Acq: 20 Sep 2019 18:51

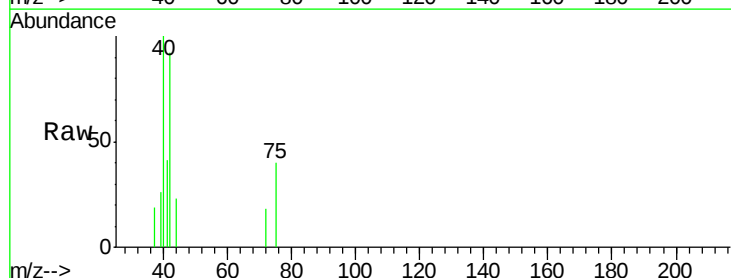
Tgt Ion: 42 Resp: 950

Ion Ratio Lower Upper

42 100

72 24.5 33.9 50.9#

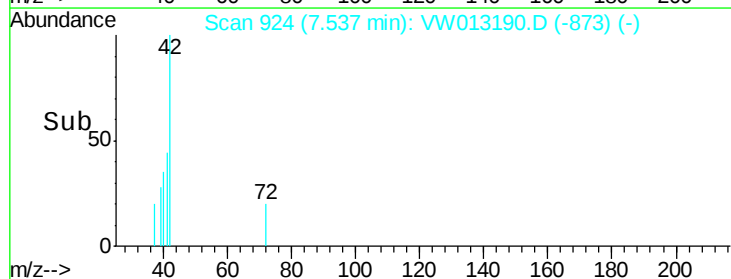
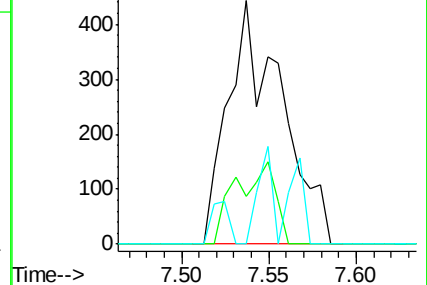
71 10.4 31.9 47.9#

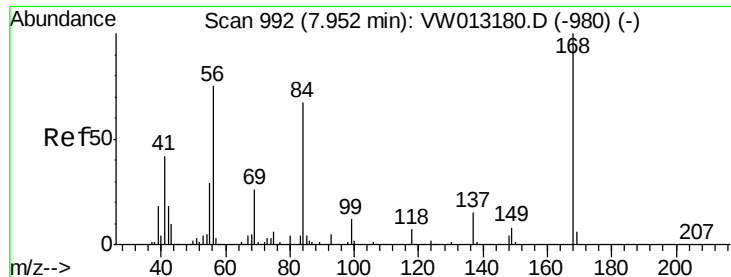


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

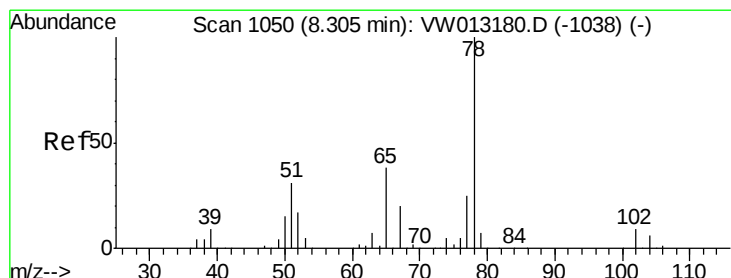
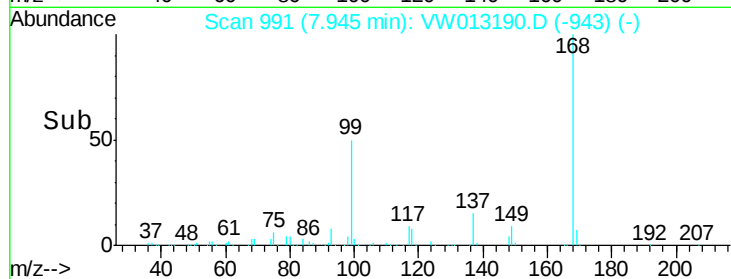
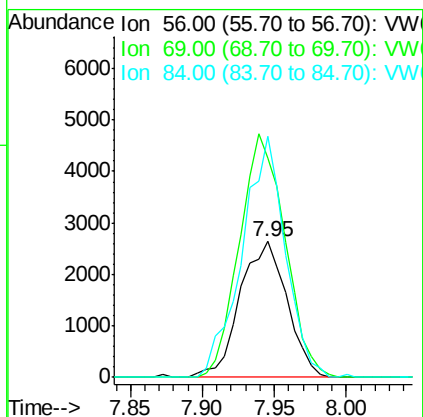
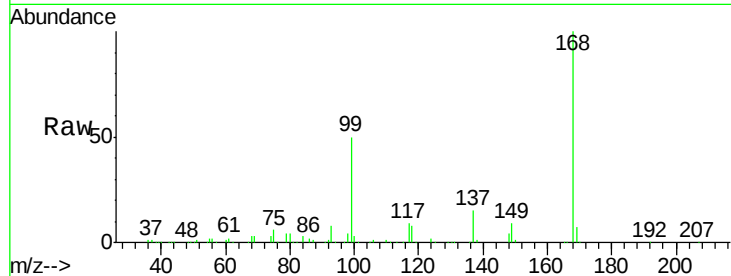




#31
Cyclohexane
Concen: 1.013 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW013190.D
Acq: 20 Sep 2019 18:51

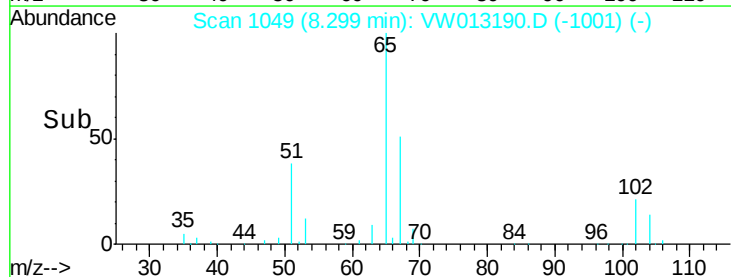
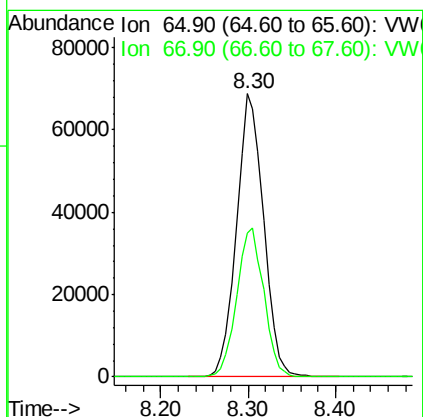
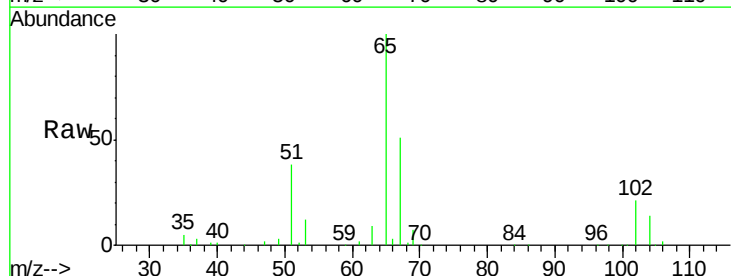
Instrument :
MSVOA_W
ClientSampled :

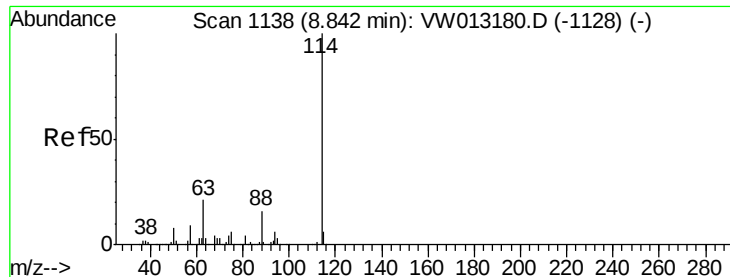
Tot Ion: 56 Resp: 5989
Ion Ratio Lower Upper
56 100
69 161.6 27.2 40.8#
84 177.2 70.8 106.2#



#33
1,2-Dichloroethane-d4
Concen: 54.158 ug/l
RT: 8.30 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VW013190.D
Acq: 20 Sep 2019 18:51

Tgt Ion: 65 Resp: 147765
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.2

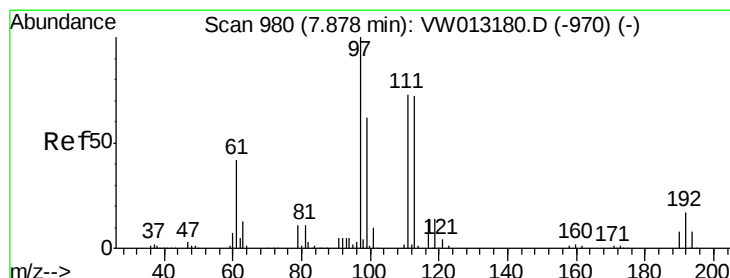
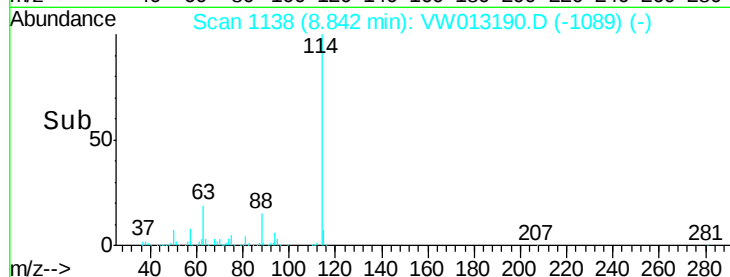
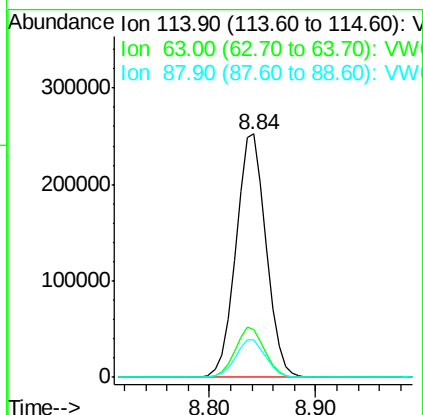
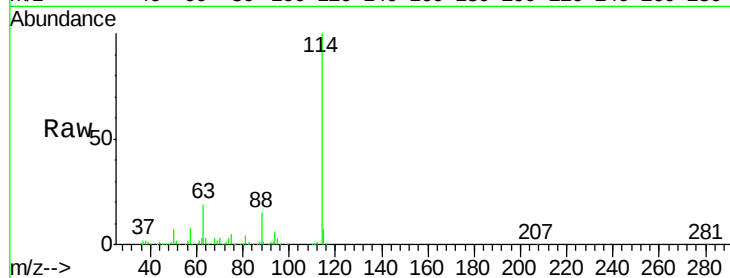




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. -0.00 min
Lab File: VW013190.D
Acq: 20 Sep 2019 18:51

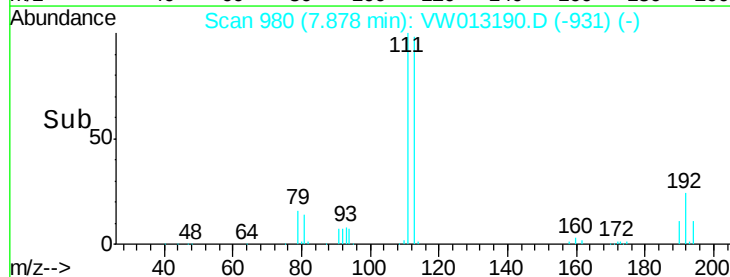
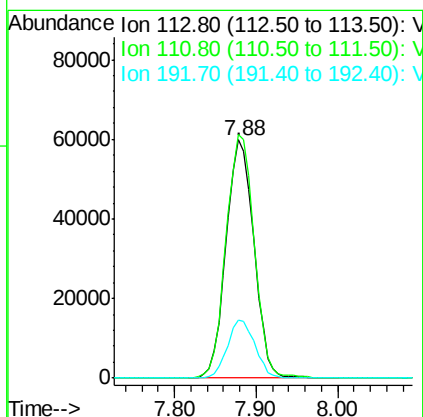
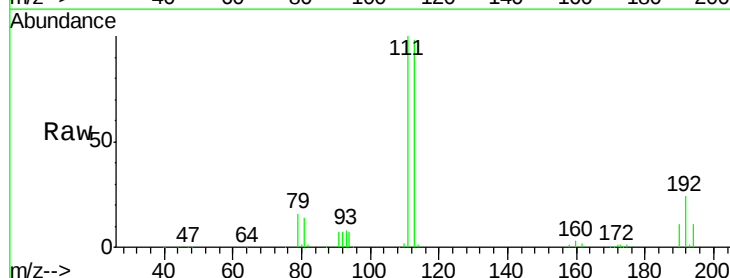
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MSVOA_W
ClientSampleId :

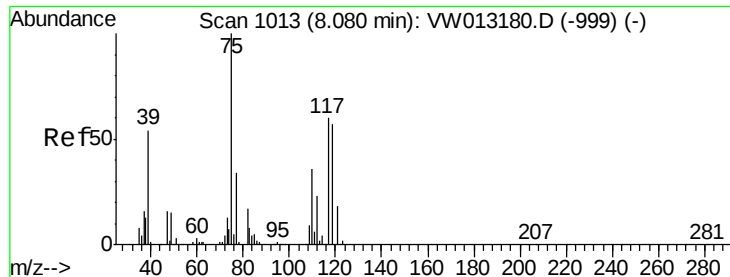
Tot Ion:114 Resp: 499881
Ion Ratio Lower Upper
114 100
63 19.4 0.0 41.4
88 15.2 0.0 32.0



#35
Dibromofluoromethane
Concen: 51.277 ug/l
RT: 7.88 min Scan# 980
Delta R.T. -0.00 min
Lab File: VW013190.D
Acq: 20 Sep 2019 18:51

Tgt Ion:113 Resp: 140979
Ion Ratio Lower Upper
113 100
111 103.2 81.9 122.9
192 24.1 19.1 28.7

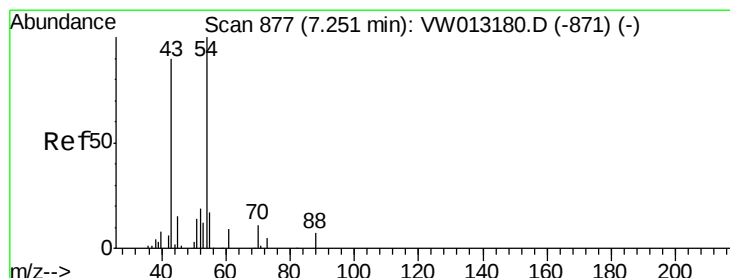
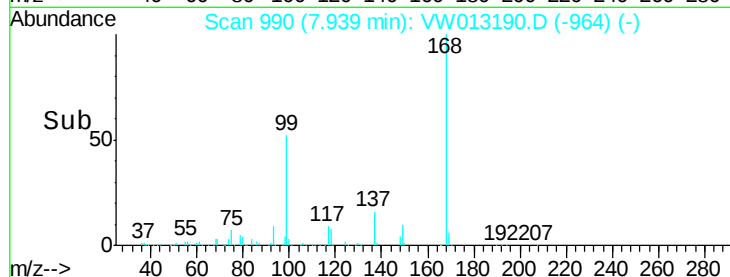
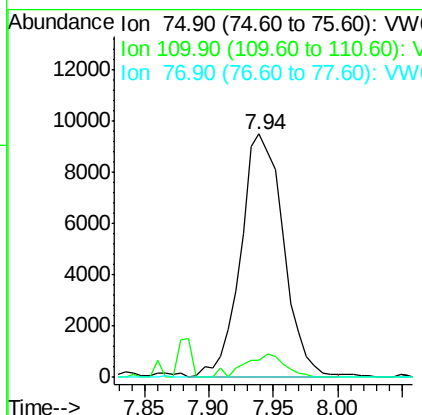
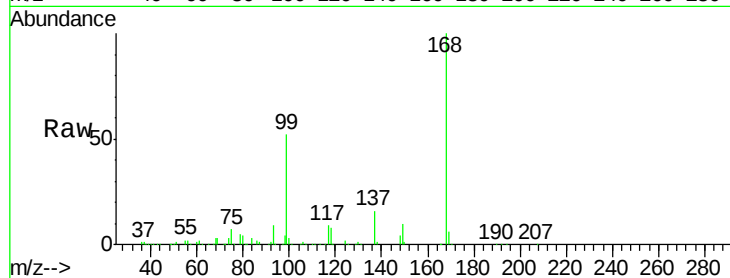




#36
 1,1-Dichloropropene
 Concen: 4.508 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013190.D
 Acq: 20 Sep 2019 18:51

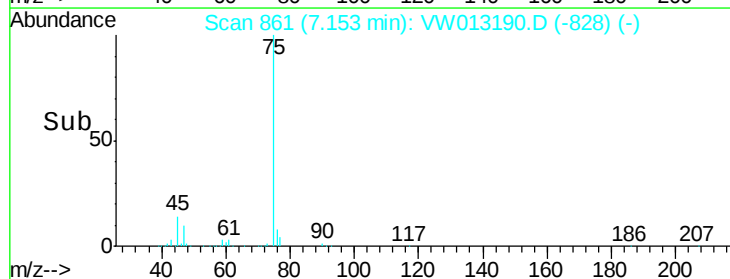
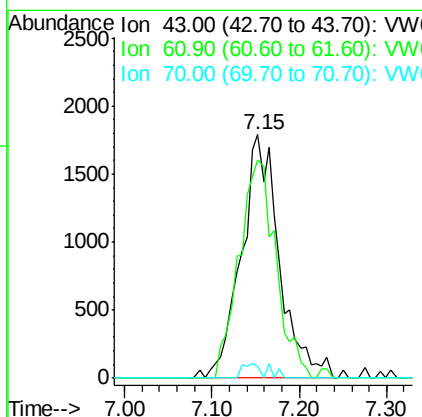
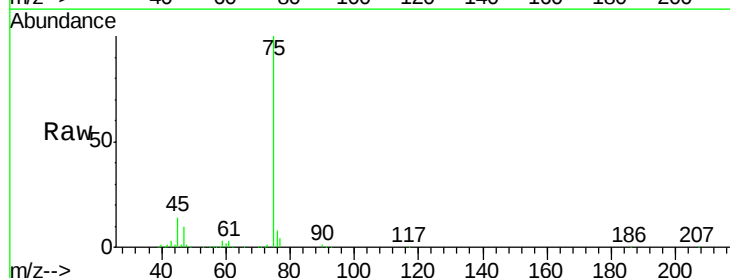
Instrument :
 MSVOA_W
 ClientSampleId :

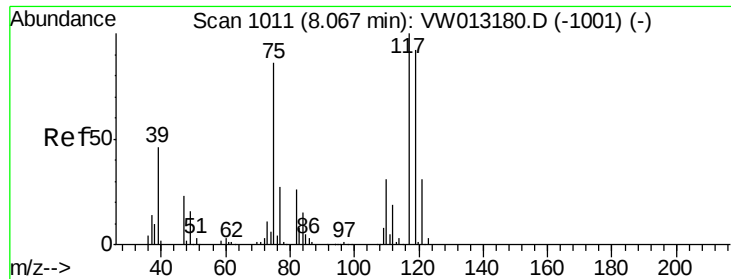
Tot Ion: 75 Resp: 21824
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.1 54.3#
 77 0.0 25.8 38.6#



#37
 Ethyl Acetate
 Concen: 2.633 ug/l
 RT: 7.15 min Scan# 861
 Delta R.T. -0.10 min
 Lab File: VW013190.D
 Acq: 20 Sep 2019 18:51

Tgt Ion: 43 Resp: 5419
 Ion Ratio Lower Upper
 43 100
 61 86.2 10.9 16.3#
 70 2.5 8.2 12.2#

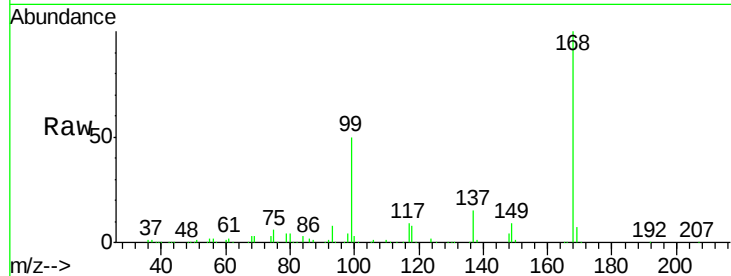




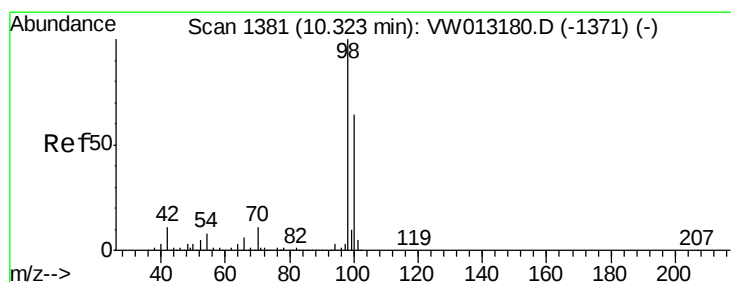
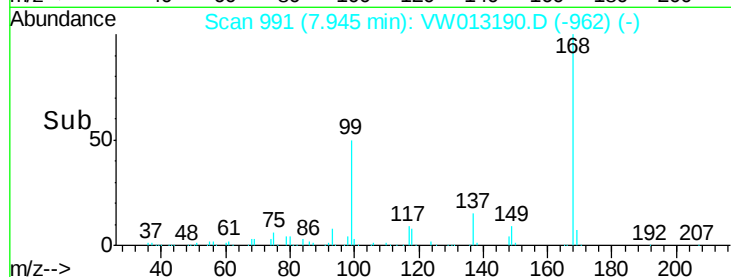
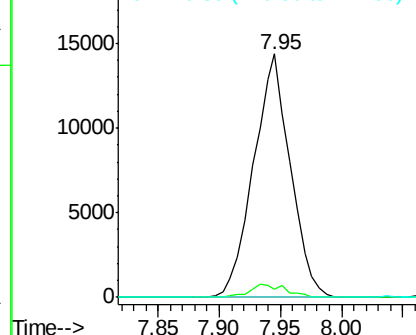
#38
Carbon Tetrachloride
Concen: 6.916 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW013190.D
Acq: 20 Sep 2019 18:51

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 30018
Ion Ratio Lower Upper
117 100
119 3.4 73.5 110.3#
121 0.0 25.0 37.6#

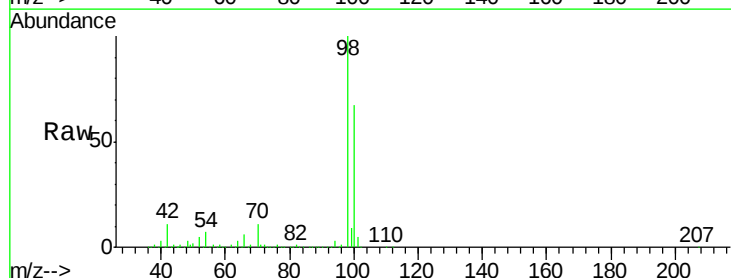


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

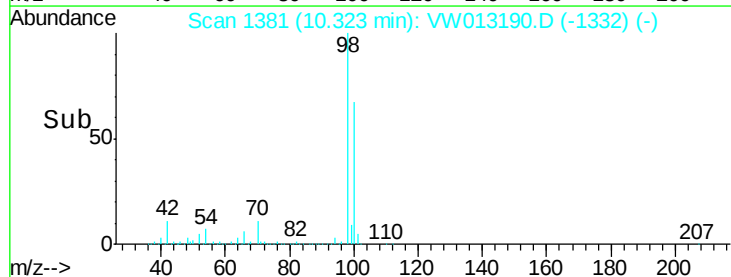
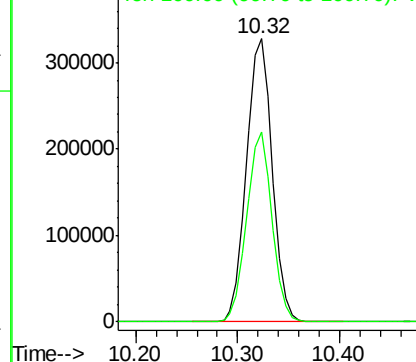


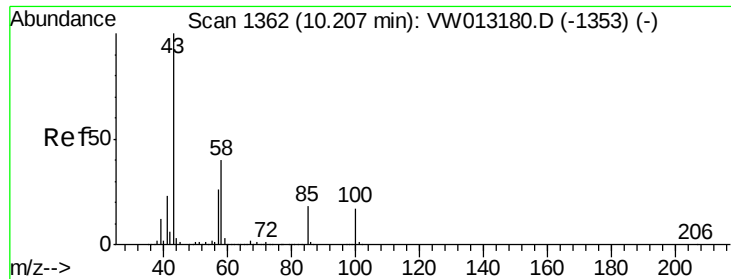
#50
Toluene-d8
Concen: 50.071 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013190.D
Acq: 20 Sep 2019 18:51

Tgt Ion: 98 Resp: 576137
Ion Ratio Lower Upper
98 100
100 65.7 52.9 79.3



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





#51

4-Methyl-2-Pentanone

Concen: 1.275 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.12 min

Lab File: VW013190.D

Acq: 20 Sep 2019 18:51

Instrument :

MSVOA_W

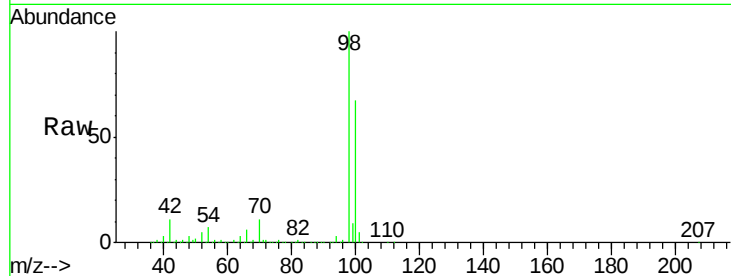
ClientSampleId :

Tot Ion: 43 Resp: 2520

Ion Ratio Lower Upper

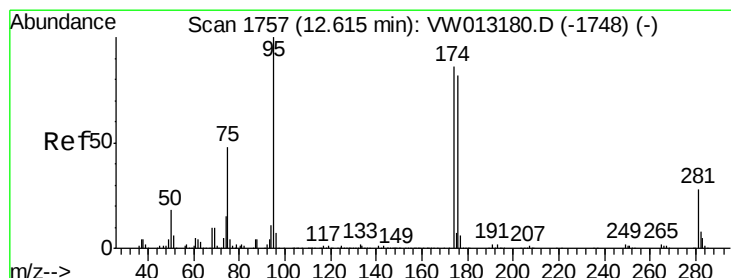
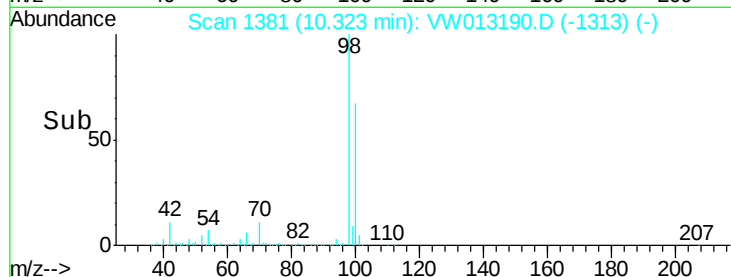
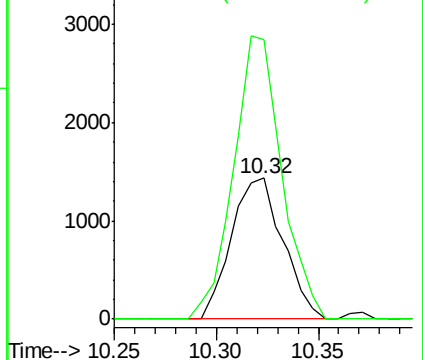
43 100

58 187.8 31.7 47.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 46.567 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013190.D

Acq: 20 Sep 2019 18:51

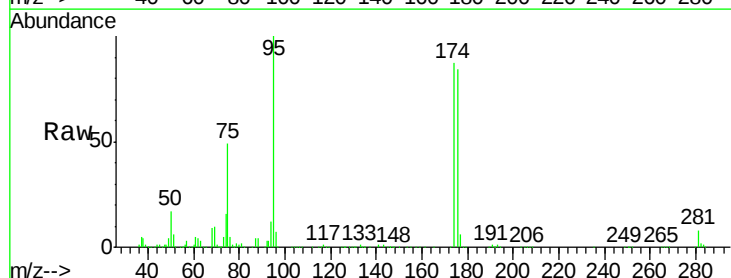
Tgt Ion: 95 Resp: 183031

Ion Ratio Lower Upper

95 100

174 87.9 0.0 178.4

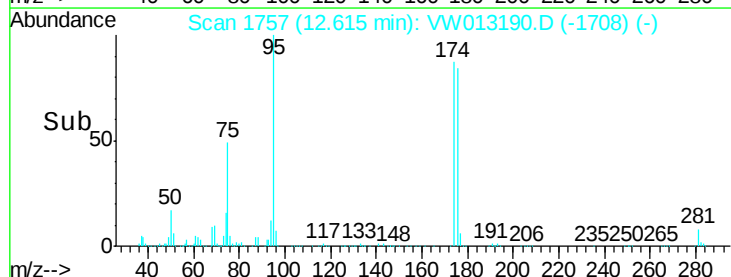
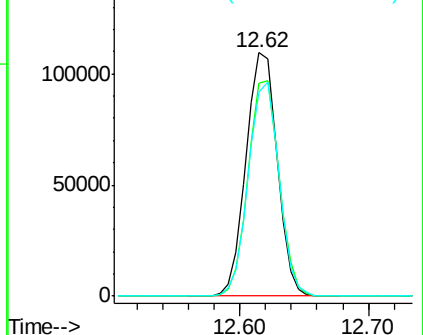
176 86.3 0.0 172.2

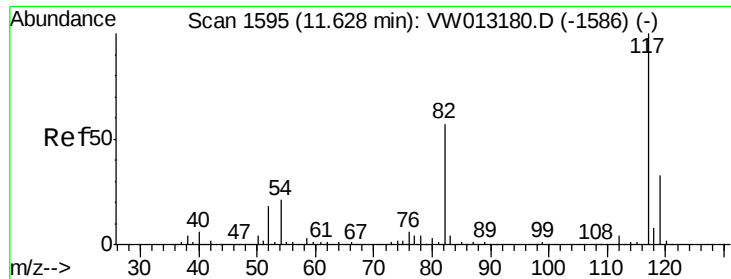


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

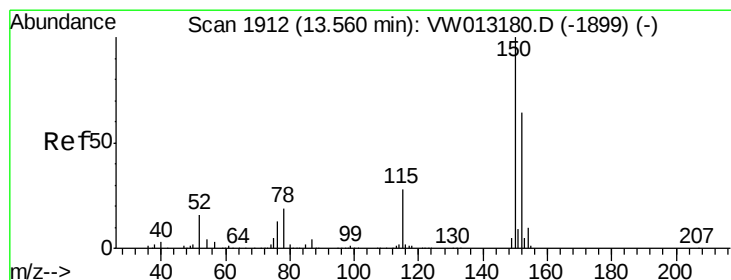
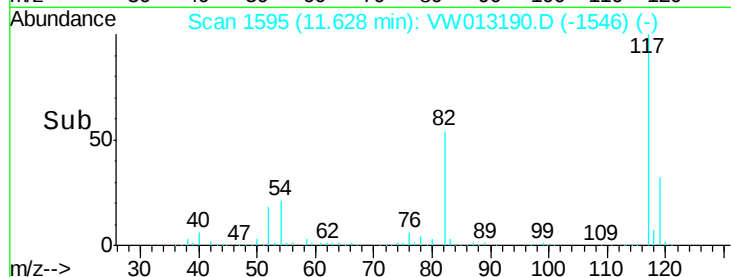
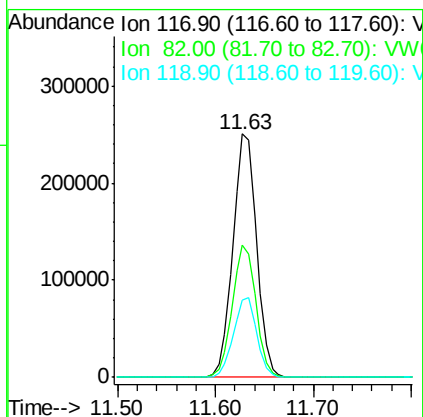
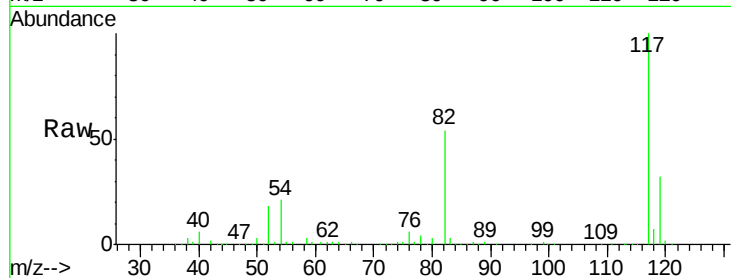




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013190.D
Acq: 20 Sep 2019 18:51

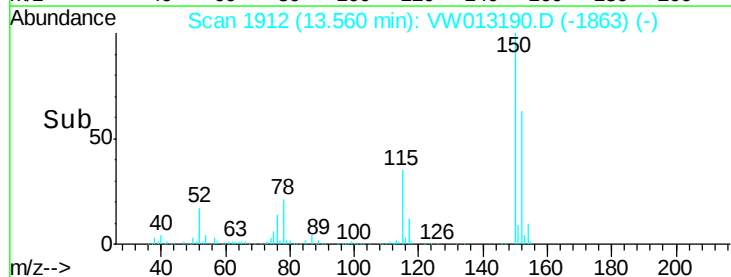
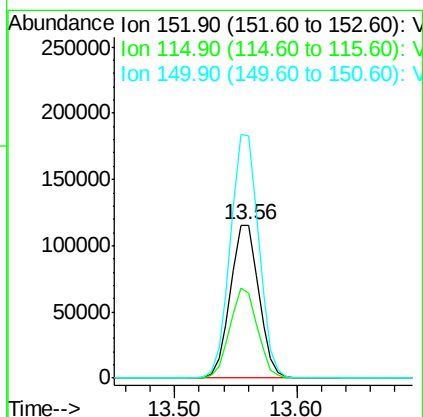
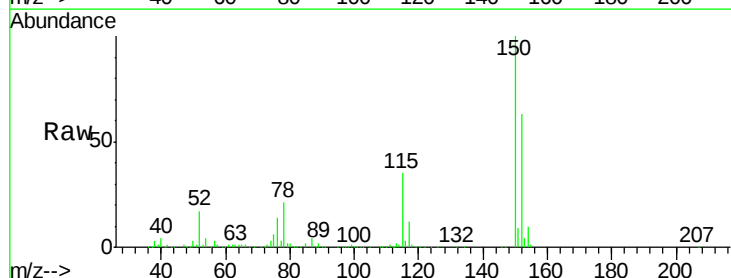
Instrument :
MSVOA_W
ClientSampled :

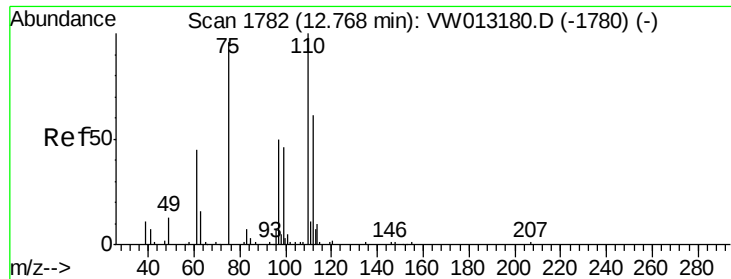
Tot Ion:117 Resp: 421793
Ion Ratio Lower Upper
117 100
82 54.3 45.9 68.9
119 31.6 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW013190.D
Acq: 20 Sep 2019 18:51

Tgt Ion:152 Resp: 186266
Ion Ratio Lower Upper
152 100
115 56.8 27.3 81.9
150 158.5 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 53.305 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013190.D

Acq: 20 Sep 2019 18:51

Instrument :

MSVOA_W

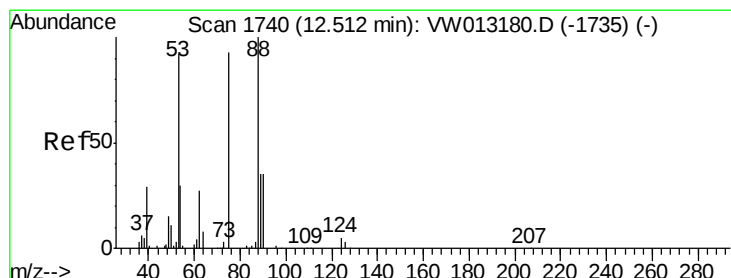
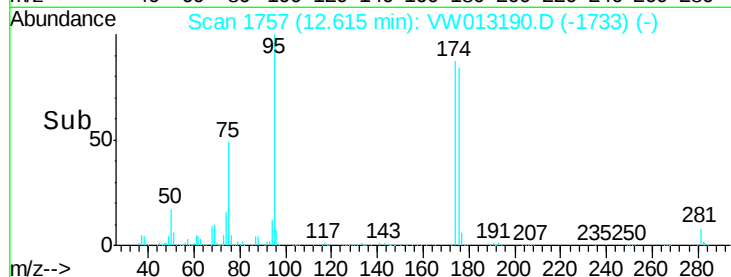
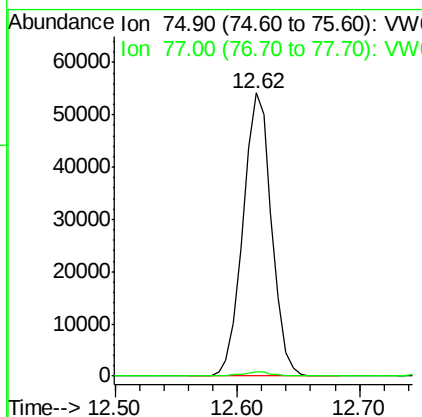
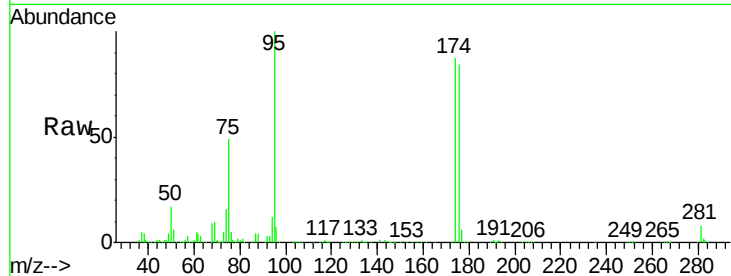
ClientSampled :

Tot Ion: 75 Resp: 87685

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 119.611 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013190.D

Acq: 20 Sep 2019 18:51

Tgt Ion: 75 Resp: 87685

Ion Ratio Lower Upper

75 100

53 0.0 76.6 114.8#

89 0.0 33.5 50.3#

