

Data File : VW012000.D
Acq On : 19 Aug 2019 20:02
Operator : SY/VA
Sample : K4391-05
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
W-WALL

Quant Time: Aug 20 05:13:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	252401	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	424473	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	352392	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	158106	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	155919	53.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.60%	
35) Dibromofluoromethane	7.88	113	128348	53.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.80%	
50) Toluene-d8	10.32	98	618310	63.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.84%	
62) 4-Bromofluorobenzene	12.62	95	207695	59.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.50%	

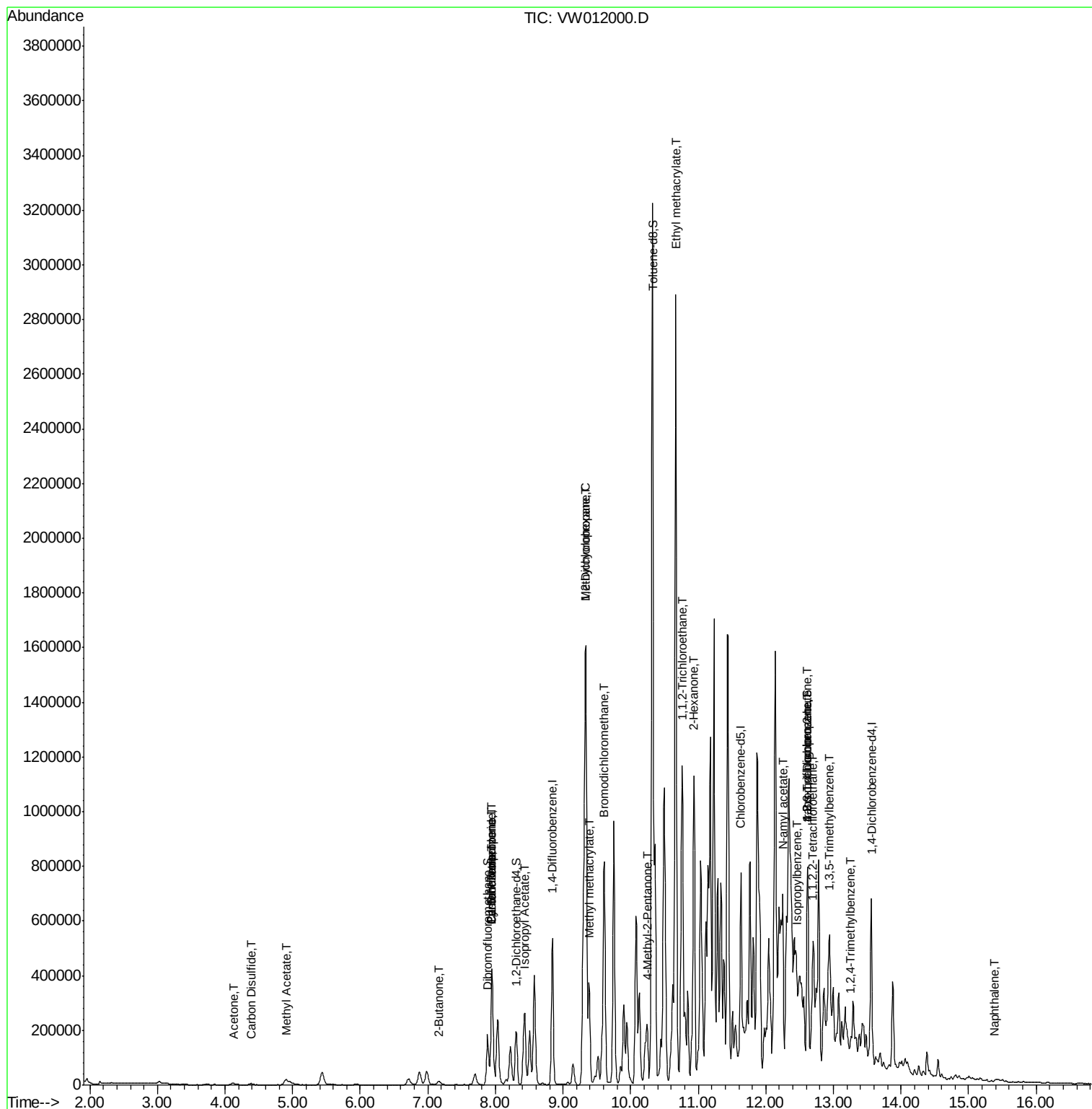
Target Compounds			Qvalue			
11) Tert butyl alcohol	5.17	59	196	Below Cal	#	72
16) Acetone	4.14	43	8848	9.597	ug/l	90
17) Carbon Disulfide	4.39	76	10536	1.281	ug/l	97
18) Methyl Acetate	4.90	43	19333	9.335	ug/l #	57
25) 2-Butanone	7.17	43	6749	5.594	ug/l #	56
31) Cyclohexane	7.95	56	56728	10.468	ug/l #	93
36) 1,1-Dichloropropene	7.95	75	21800	4.939	ug/l #	55
38) Carbon Tetrachloride	7.95	117	26304	6.962	ug/l #	16
39) Methylcyclohexane	9.34	83	611593	125.841	ug/l	96
43) Isopropyl Acetate	8.42	43	92537	19.815	ug/l #	55
45) 1,2-Dichloropropane	9.34	63	7237	2.188	ug/l #	1
47) Bromodichloromethane	9.61	83	21377	5.398	ug/l #	55
48) Methyl methacrylate	9.38	41	74745	33.319	ug/l #	36
51) 4-Methyl-2-Pentanone	10.24	43	11021	4.537	ug/l #	74
55) 1,1,2-Trichloroethane	10.76	97	388975	181.577	ug/l #	20
56) Ethyl methacrylate	10.66	69	282715	90.188	ug/l #	6
59) 2-Hexanone	10.93	43	491067	286.317	ug/l #	33
73) Isopropylbenzene	12.46	105	12092	1.025	ug/l	96
74) N-amyl acetate	12.25	43	168902	45.739	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.69	83	17954	8.092	ug/l #	66
76) 1,2,3-Trichloropropane	12.62	75	89100	53.259	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	10573	1.069	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	89100	122.745	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.25	105	11908	1.196	ug/l	99
95) Naphthalene	15.37	128	2009	2.375	ug/l #	84

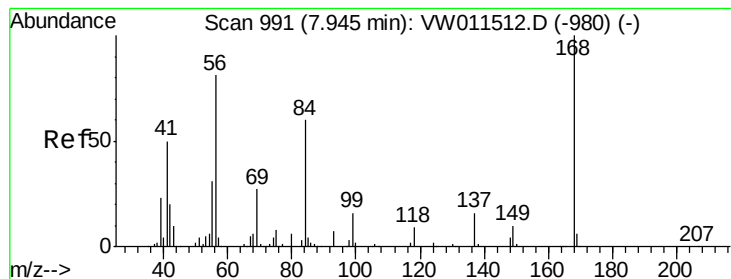
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012000.D

Acq: 19 Aug 2019 20:02

Instrument :

MSVOA_W

ClientSampled :

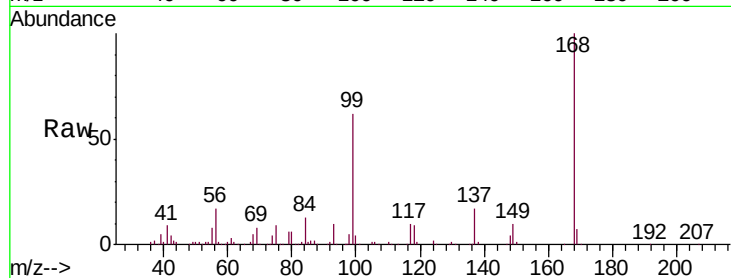
W-WALL

Tgt Ion: 168 Resp: 252401

Ion Ratio Lower Upper

168 100

99 62.0 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

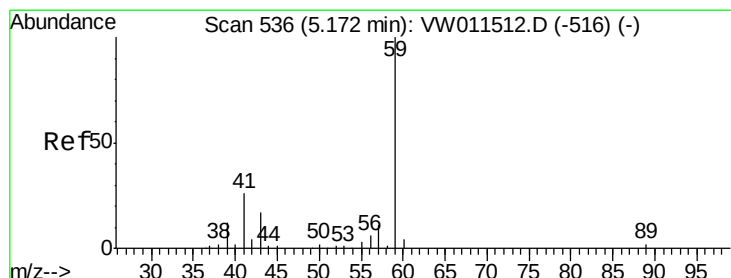
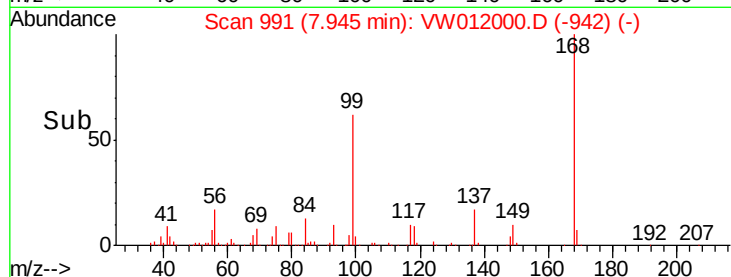
7.95

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 536

Delta R.T. 0.00 min

Lab File: VW012000.D

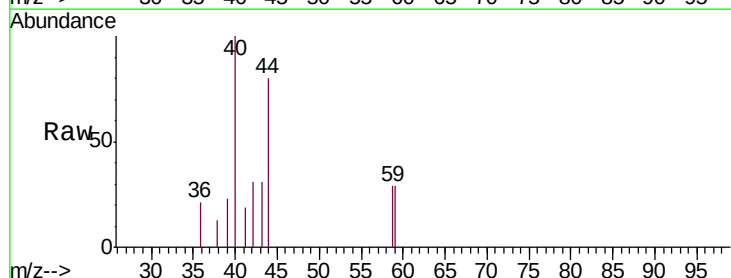
Acq: 19 Aug 2019 20:02

Tgt Ion: 59 Resp: 196

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

5.17

300

250

200

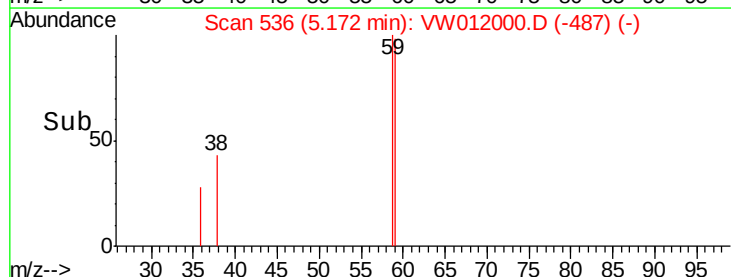
150

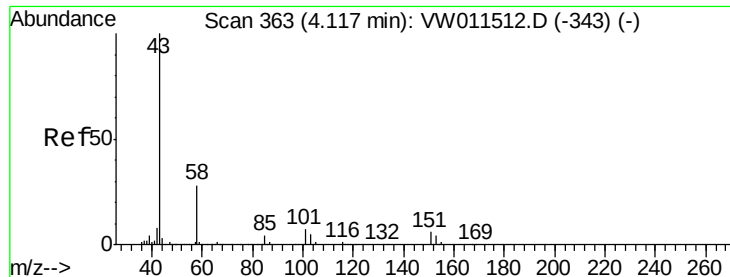
100

50

0

Time-->





#16

Acetone

Concen: 9.597 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW012000.D

Acq: 19 Aug 2019 20:02

Instrument :

MSVOA_W

ClientSampleId :

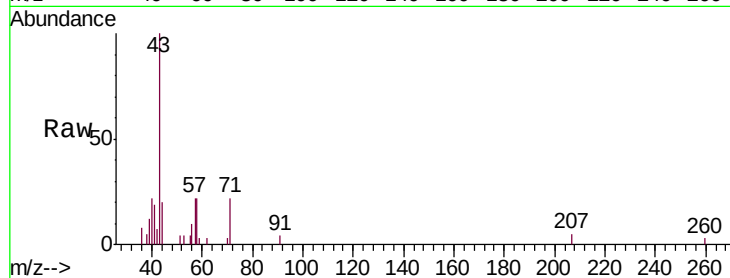
W-WALL

Tgt Ion: 43 Resp: 8848

Ion Ratio Lower Upper

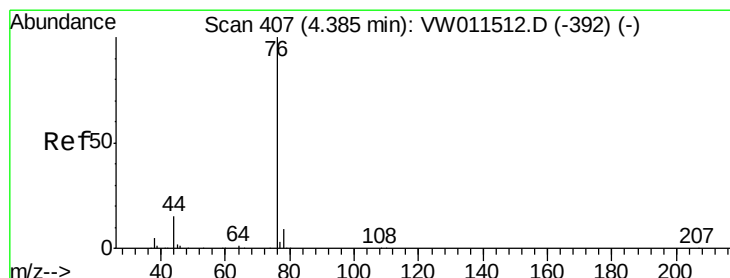
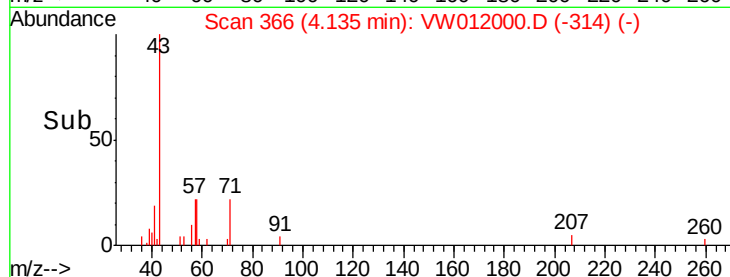
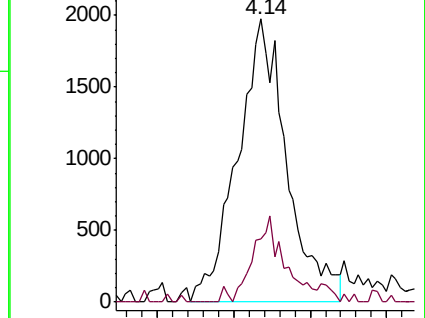
43 100

58 22.5 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 1.281 ug/l

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW012000.D

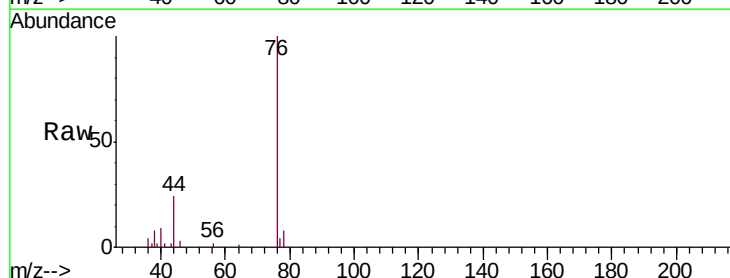
Acq: 19 Aug 2019 20:02

Tgt Ion: 76 Resp: 10536

Ion Ratio Lower Upper

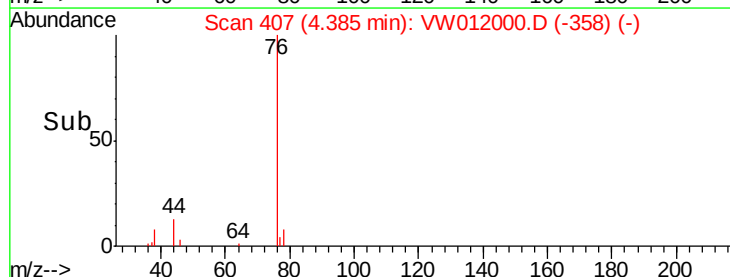
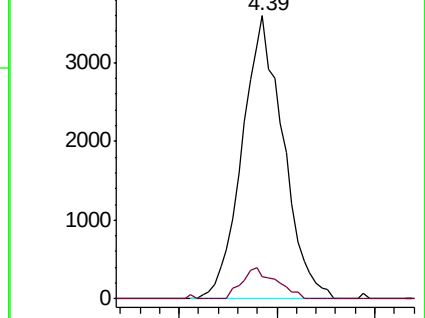
76 100

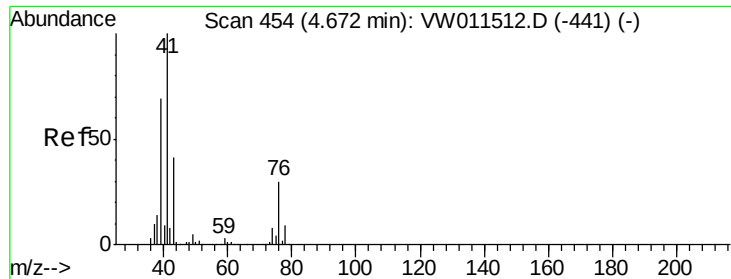
78 7.7 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

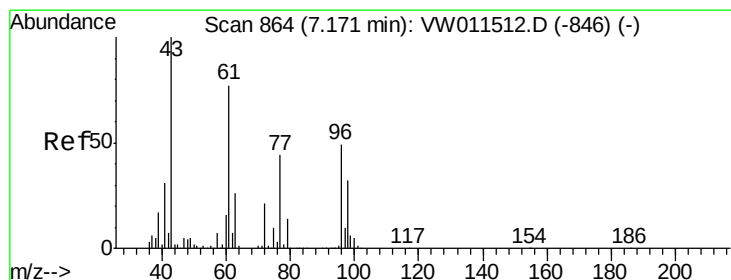
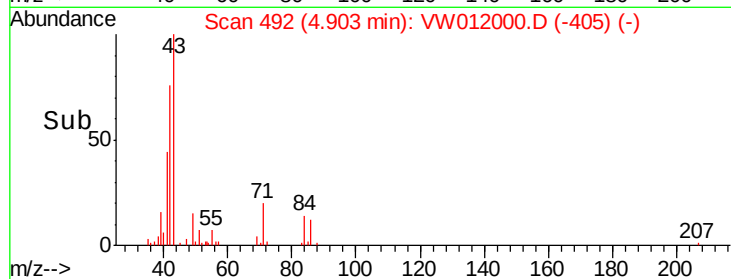
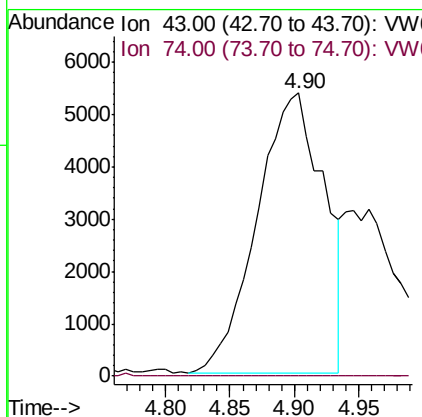
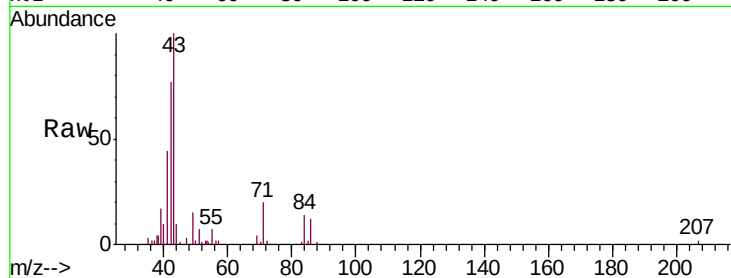




#18
Methyl Acetate
Concen: 9.335 ug/l
RT: 4.90 min Scan# 492
Delta R.T. 0.23 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

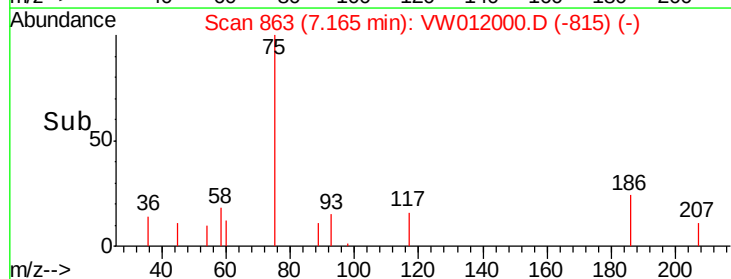
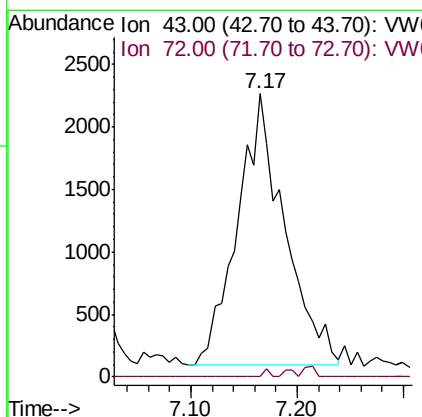
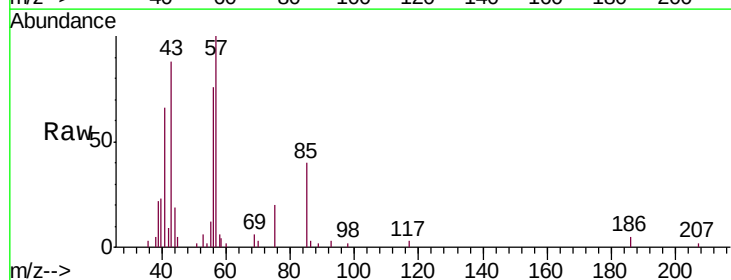
Instrument :
MSVOA_W
ClientSampleId :
W-WALL

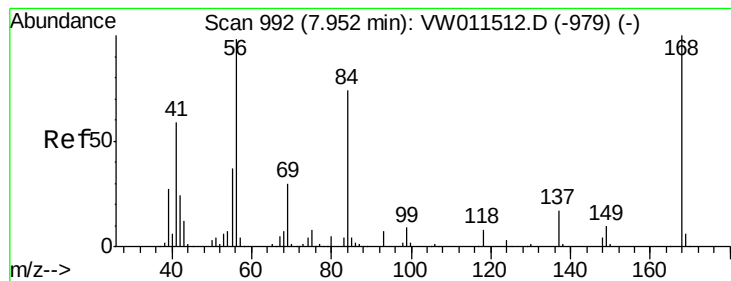
Tgt Ion: 43 Resp: 19333
Ion Ratio Lower Upper
43 100
74 0.0 15.9 23.9#



#25
2-Butanone
Concen: 5.594 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

Tgt Ion: 43 Resp: 6749
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#





#31

Cyclohexane

Concen: 10.468 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW012000.D

Acq: 19 Aug 2019 20:02

Instrument :

MSVOA_W

ClientSampled :

W-WALL

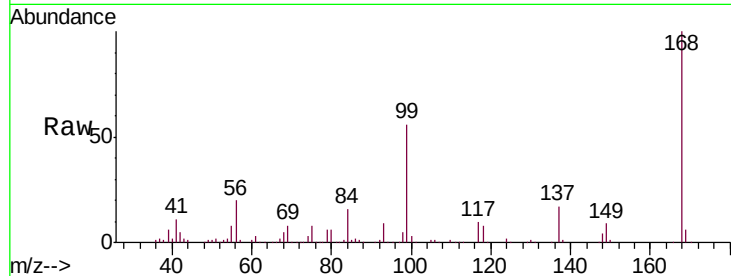
Tgt Ion: 56 Resp: 56728

Ion Ratio Lower Upper

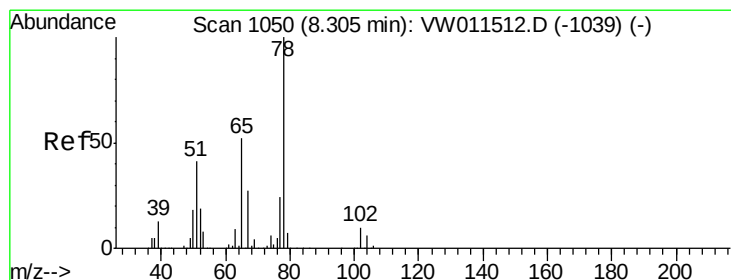
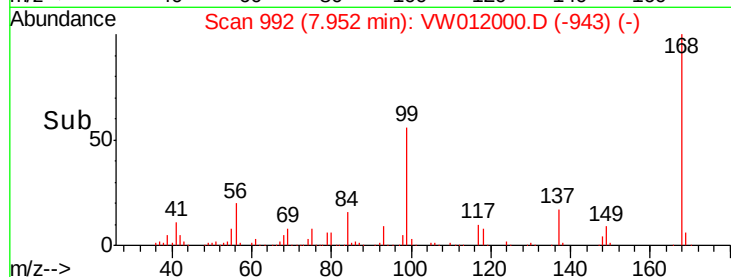
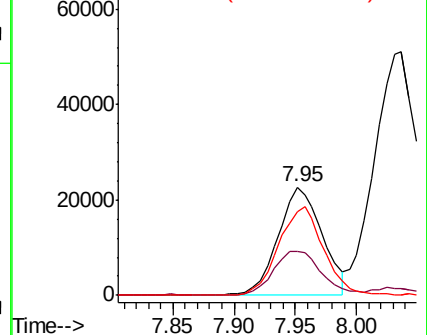
56 100

69 40.5 24.3 36.5#

84 77.3 60.4 90.6



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



#33

1,2-Dichloroethane-d4

Concen: 53.797 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012000.D

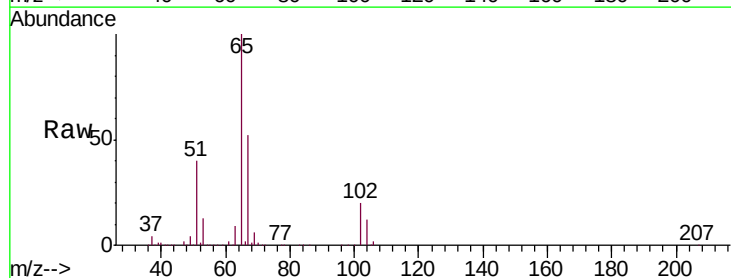
Acq: 19 Aug 2019 20:02

Tgt Ion: 65 Resp: 155919

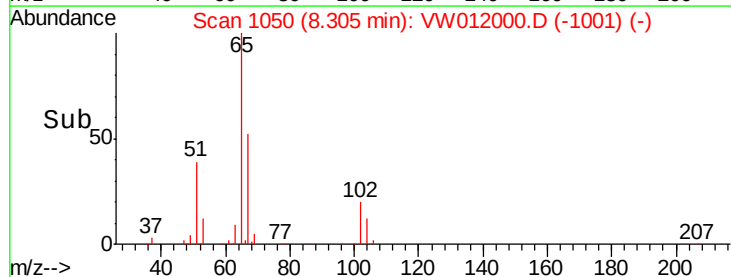
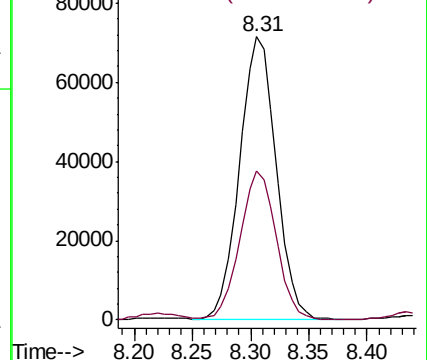
Ion Ratio Lower Upper

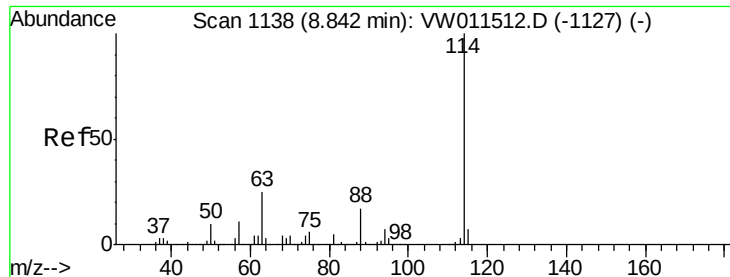
65 100

67 52.3 0.0 105.2



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

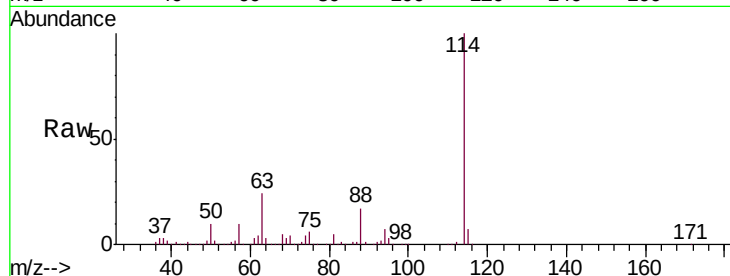




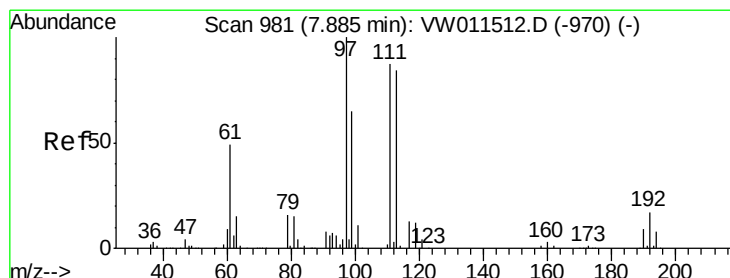
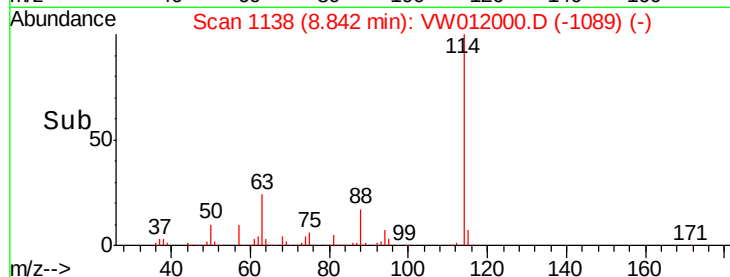
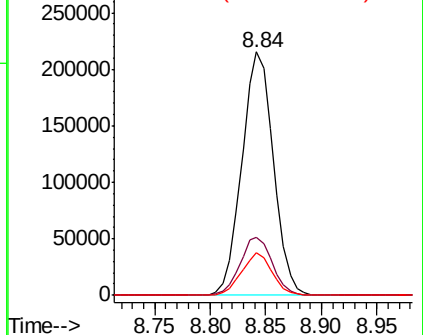
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW012000.D
 Acq: 19 Aug 2019 20:02

Instrument :
 MSVOA_W
 ClientSampleId :
 W-WALL

Tgt Ion:114 Resp: 424473
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 49.2
 88 17.3 0.0 33.8

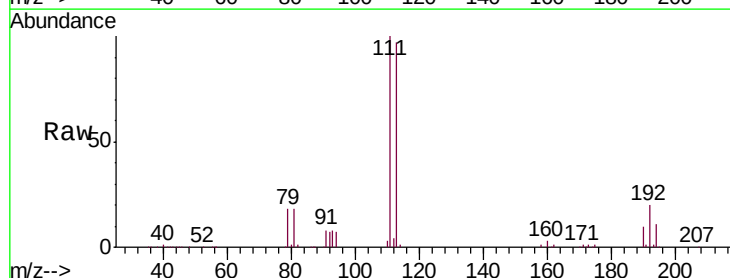


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

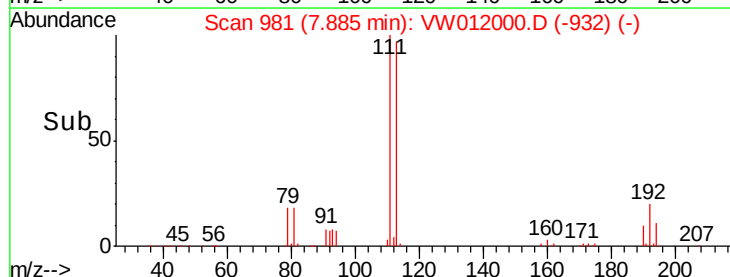
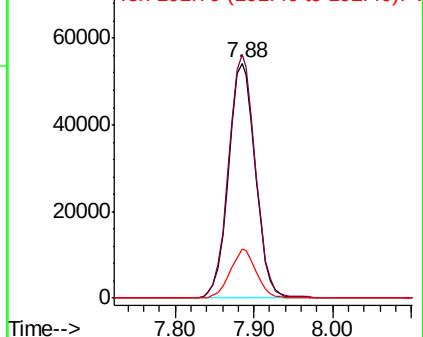


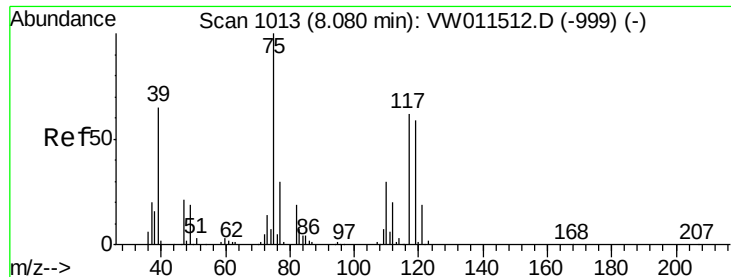
#35
 Dibromofluoromethane
 Concen: 53.897 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW012000.D
 Acq: 19 Aug 2019 20:02

Tgt Ion:113 Resp: 128348
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.7 124.1
 192 20.2 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

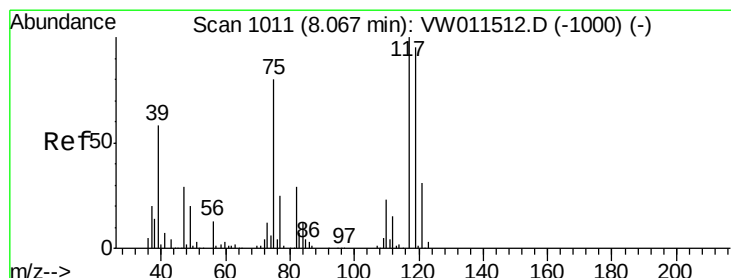
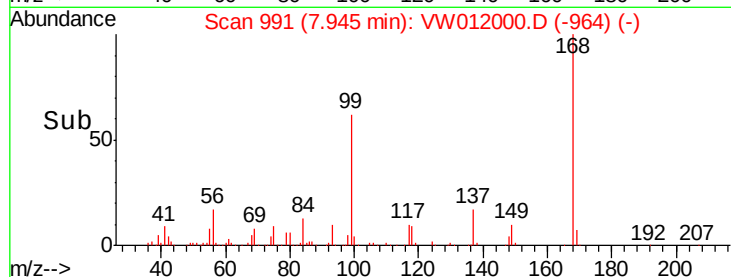
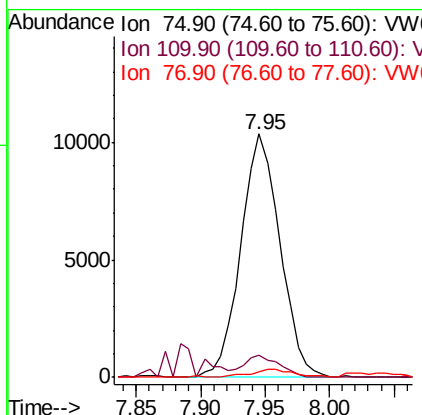
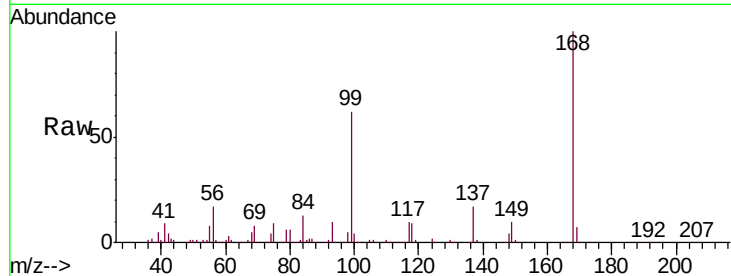




#36
 1,1-Dichloropropene
 Concen: 4.939 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012000.D
 Acq: 19 Aug 2019 20:02

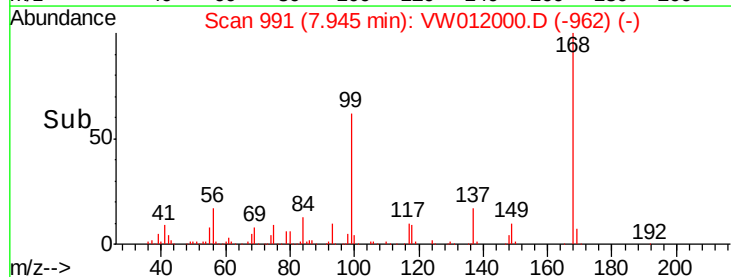
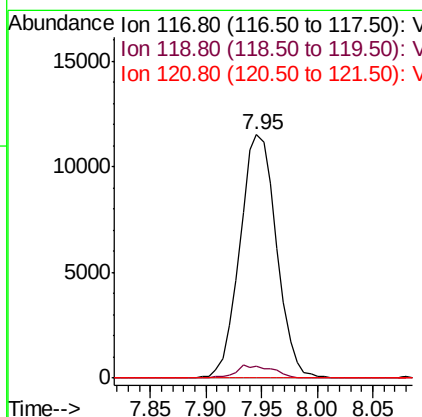
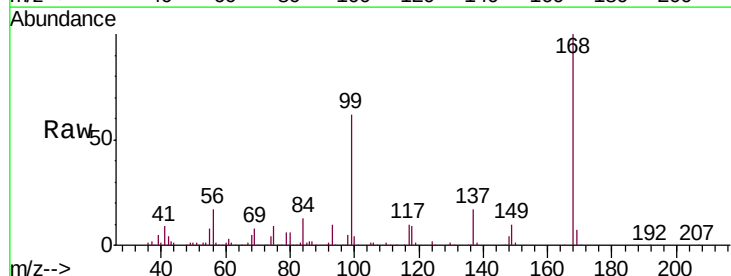
Instrument :
 MSVOA_W
 ClientSampleId :
 W-WALL

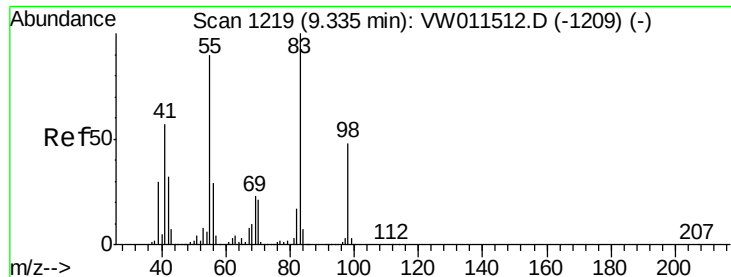
Tgt Ion: 75 Resp: 21800
 Ion Ratio Lower Upper
 75 100
 110 8.1 15.6 46.8#
 77 3.7 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 6.962 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012000.D
 Acq: 19 Aug 2019 20:02

Tgt Ion: 117 Resp: 26304
 Ion Ratio Lower Upper
 117 100
 119 5.1 75.8 113.6#
 121 0.0 24.7 37.1#

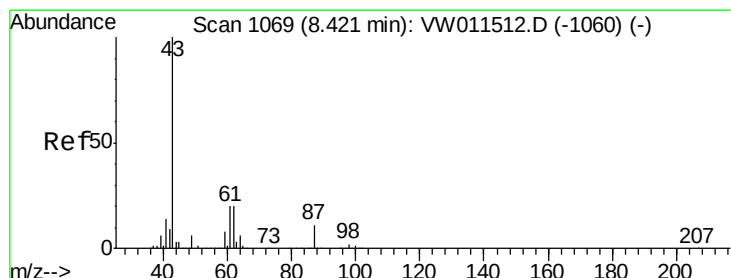
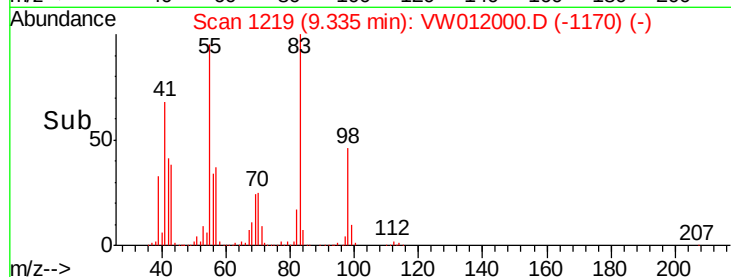
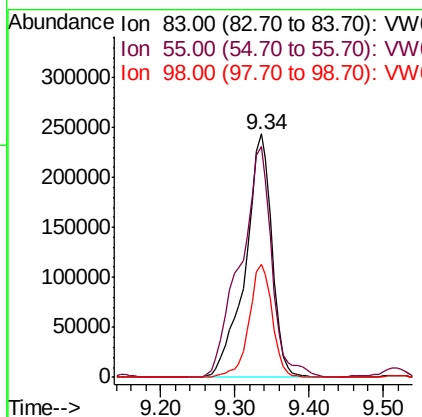
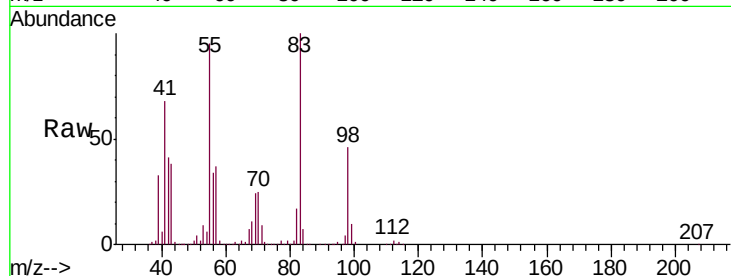




#39
Methylcyclohexane
Concen: 125.841 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

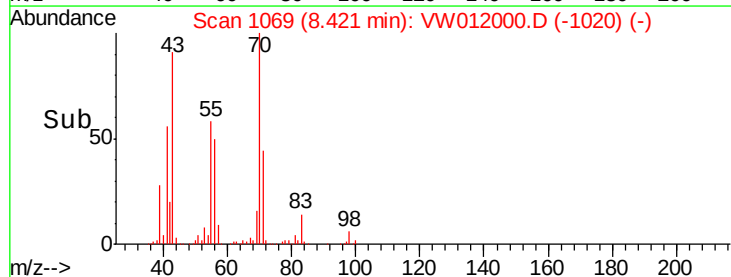
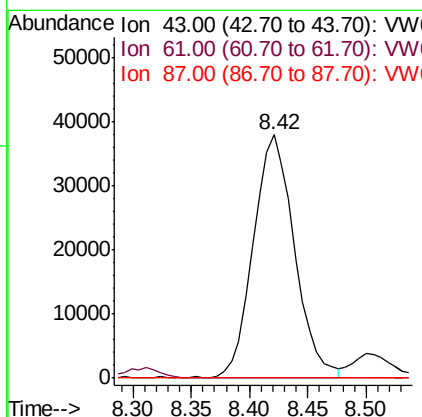
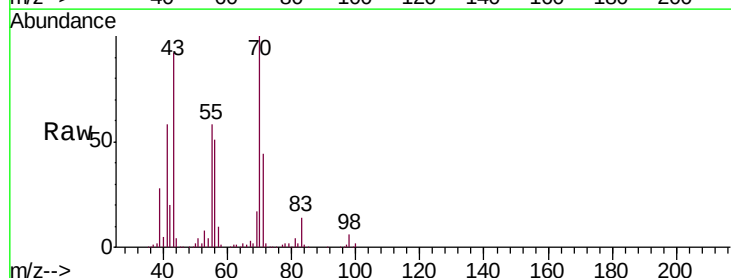
Instrument :
MSVOA_W
ClientSampleId :
W-WALL

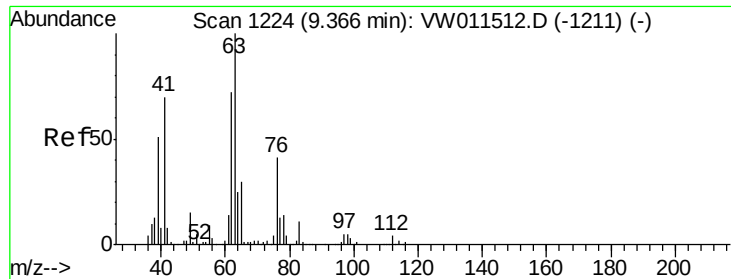
Tgt Ion: 83 Resp: 611593
Ion Ratio Lower Upper
83 100
55 94.8 72.1 108.1
98 46.3 38.6 57.8



#43
Isopropyl Acetate
Concen: 19.815 ug/l
RT: 8.42 min Scan# 1069
Delta R.T. -0.00 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

Tgt Ion: 43 Resp: 92537
Ion Ratio Lower Upper
43 100
61 0.2 21.5 32.3#
87 0.0 8.4 12.6#

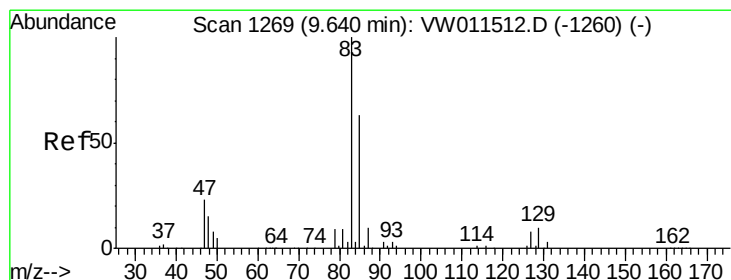
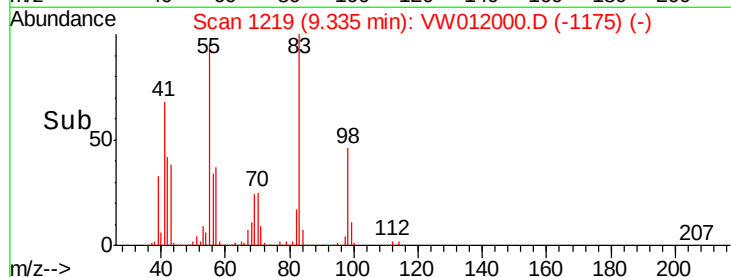
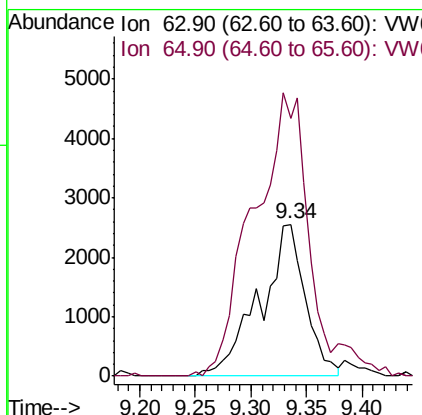
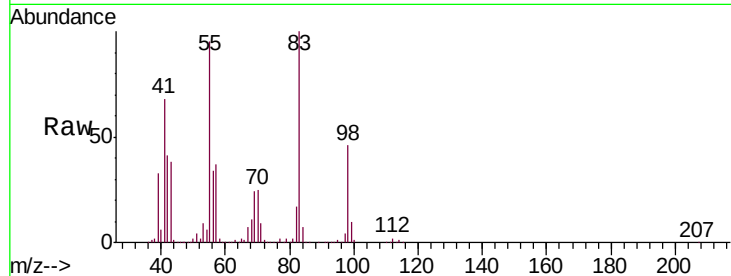




#45
 1,2-Dichloropropane
 Concen: 2.188 ug/l
 RT: 9.34 min Scan# 1219
 Delta R.T. -0.03 min
 Lab File: VW012000.D
 Acq: 19 Aug 2019 20:02

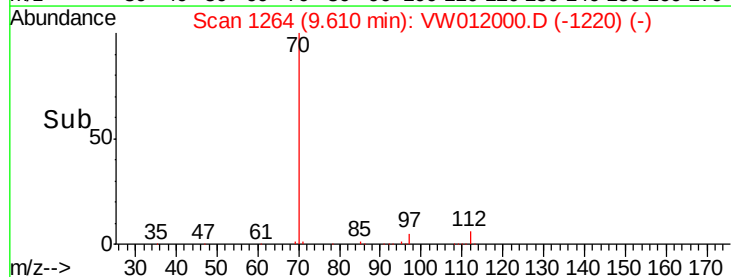
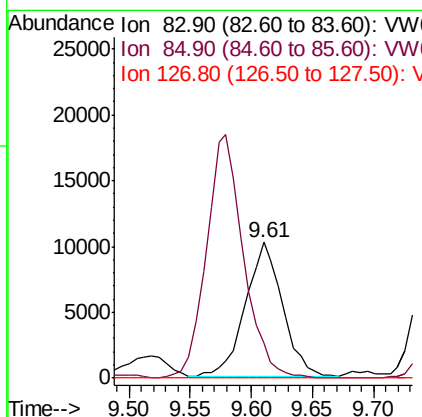
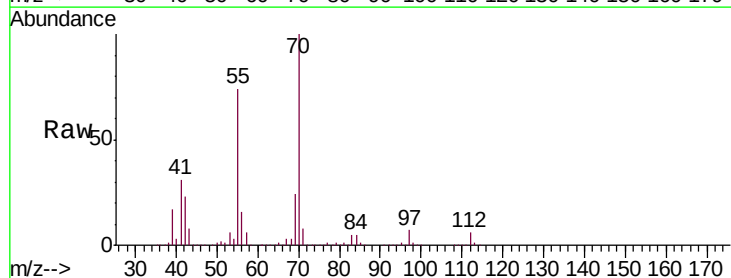
Instrument :
 MSVOA_W
 ClientSampled :
 W-WALL

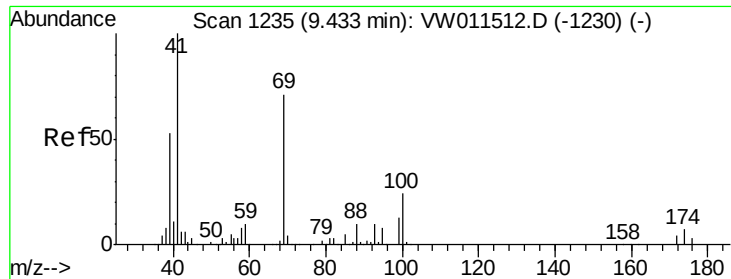
Tgt Ion: 63 Resp: 7237
 Ion Ratio Lower Upper
 63 100
 65 170.2 24.2 36.4#



#47
 Bromodichloromethane
 Concen: 5.398 ug/l
 RT: 9.61 min Scan# 1264
 Delta R.T. -0.03 min
 Lab File: VW012000.D
 Acq: 19 Aug 2019 20:02

Tgt Ion: 83 Resp: 21377
 Ion Ratio Lower Upper
 83 100
 85 26.4 50.5 75.7#
 127 0.0 6.4 9.6#

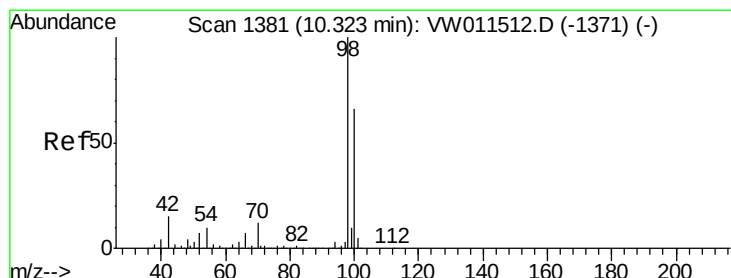
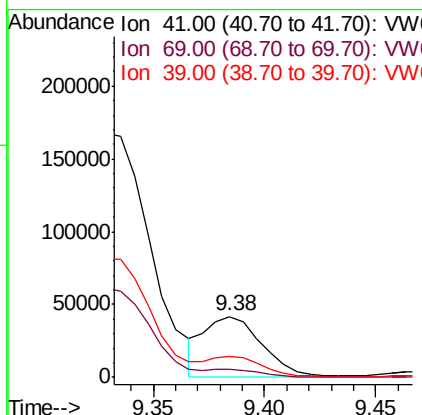
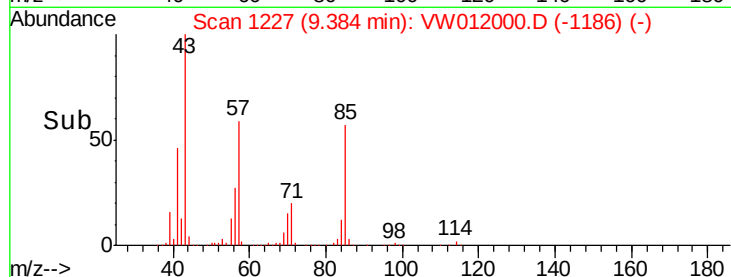
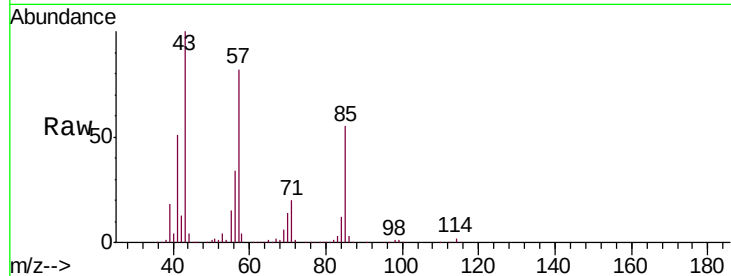




#48
Methyl methacrylate
Concen: 33.319 ug/l
RT: 9.38 min Scan# 1227
Delta R.T. -0.05 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

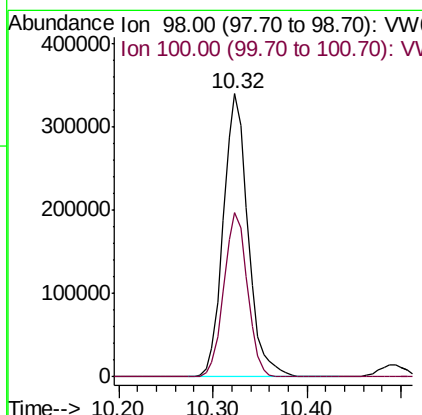
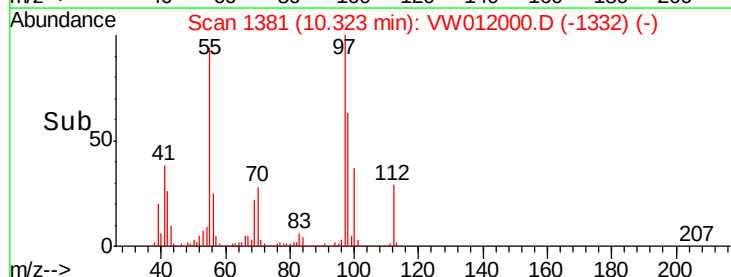
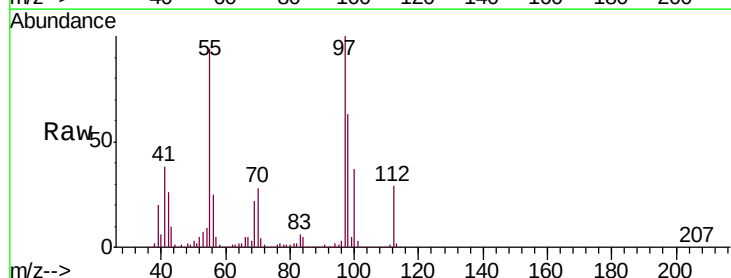
Instrument :
MSVOA_W
ClientSampleId :
W-WALL

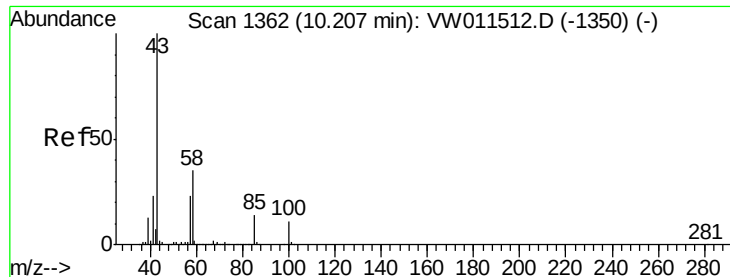
Tgt Ion: 41 Resp: 74745
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 29.7 45.4 68.2#



#50
Toluene-d8
Concen: 63.416 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

Tgt Ion: 98 Resp: 618310
Ion Ratio Lower Upper
98 100
100 55.2 52.7 79.1

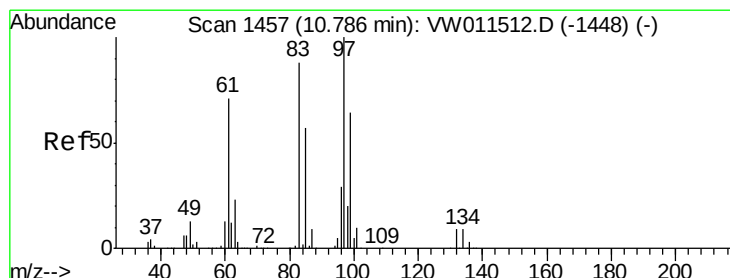
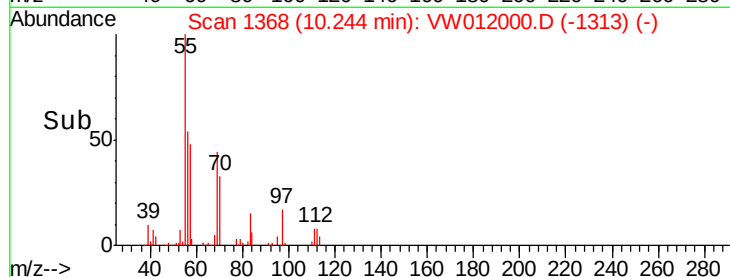
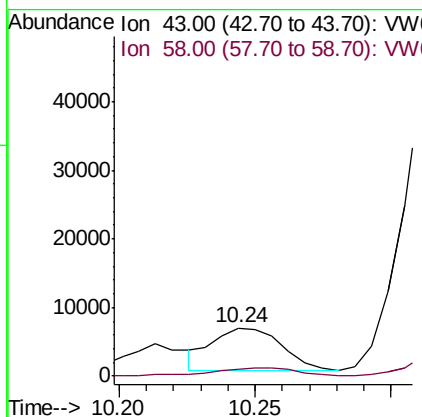
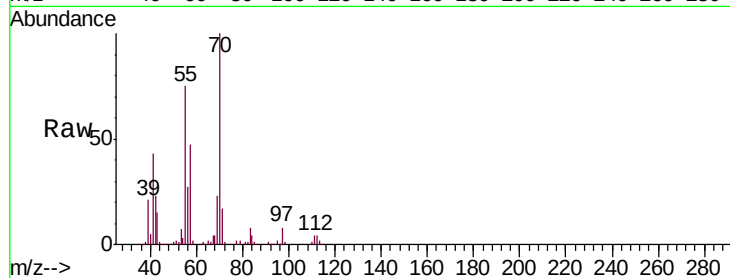




#51
 4-Methyl-2-Pentanone
 Concen: 4.537 ug/l
 RT: 10.24 min Scan# 1368
 Delta R.T. 0.04 min
 Lab File: VW012000.D
 Acq: 19 Aug 2019 20:02

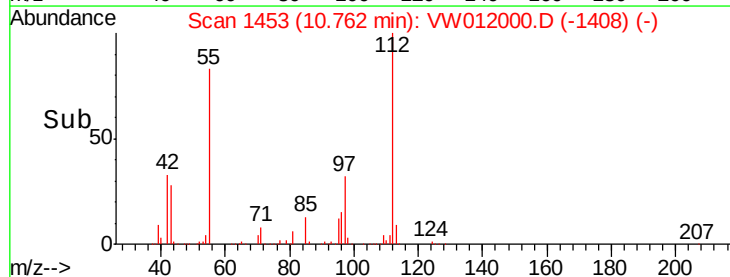
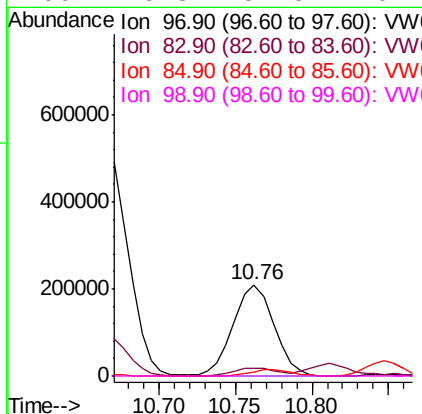
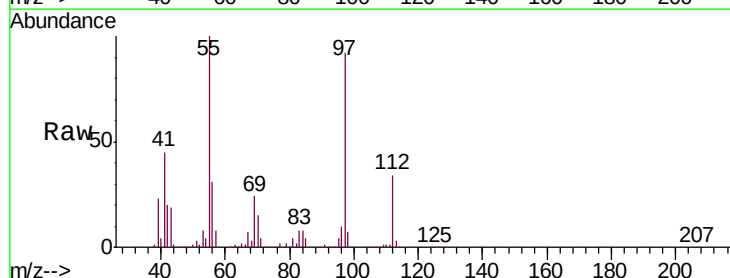
Instrument :
 MSVOA_W
 ClientSampleId :
 W-WALL

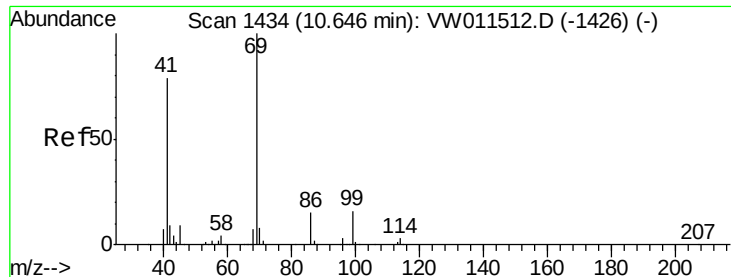
Tgt Ion: 43 Resp: 11021
 Ion Ratio Lower Upper
 43 100
 58 20.0 28.2 42.2#



#55
 1,1,2-Trichloroethane
 Concen: 181.577 ug/l
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW012000.D
 Acq: 19 Aug 2019 20:02

Tgt Ion: 97 Resp: 388975
 Ion Ratio Lower Upper
 97 100
 83 8.5 70.5 105.7#
 85 4.6 45.8 68.6#
 99 0.3 51.0 76.4#





#56

Ethyl methacrylate

Concen: 90.188 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW012000.D

Acq: 19 Aug 2019 20:02

Instrument :

MSVOA_W

ClientSampleId :

W-WALL

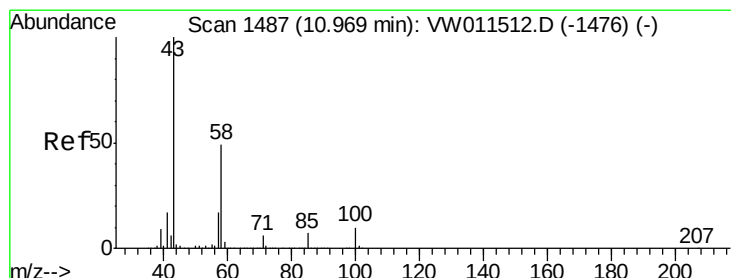
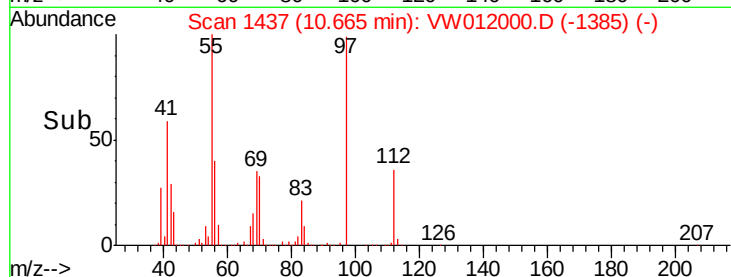
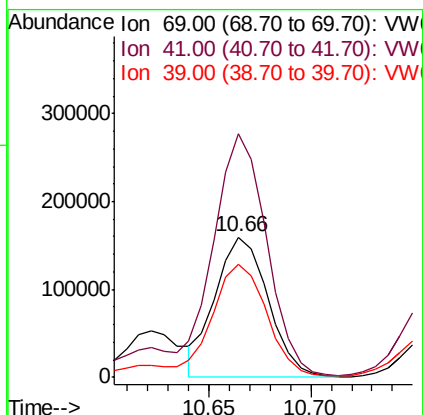
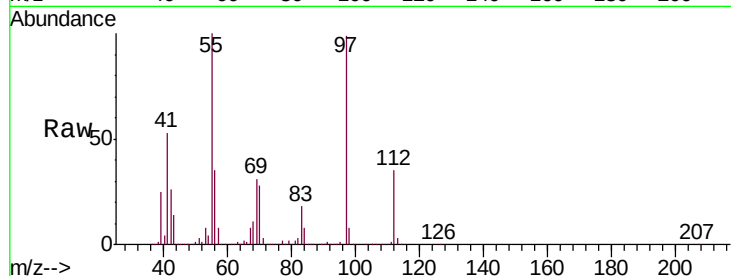
Tgt Ion: 69 Resp: 282715

Ion Ratio Lower Upper

69 100

41 174.9 66.6 99.8#

39 83.4 30.3 45.5#



#59

2-Hexanone

Concen: 286.317 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW012000.D

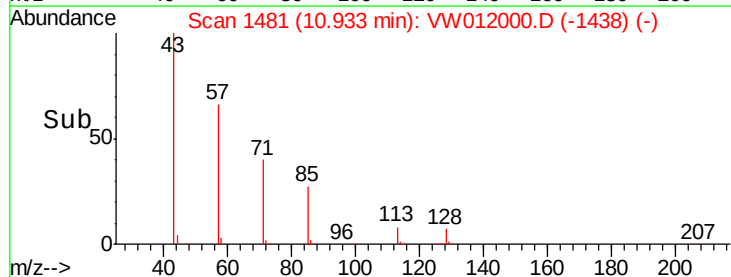
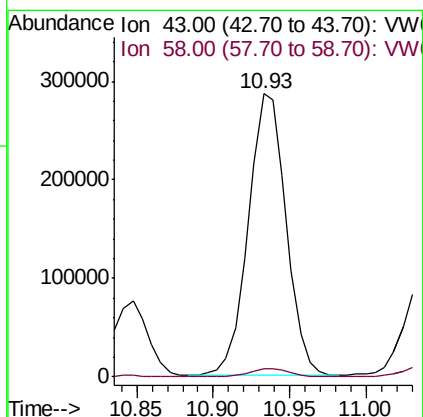
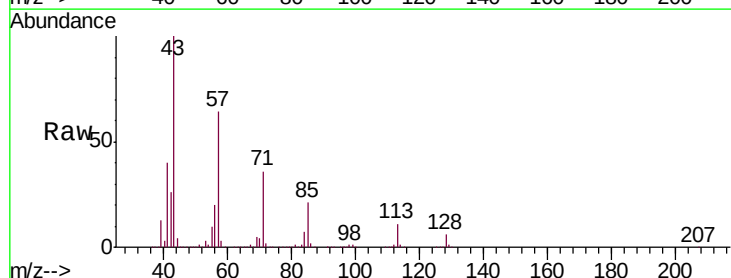
Acq: 19 Aug 2019 20:02

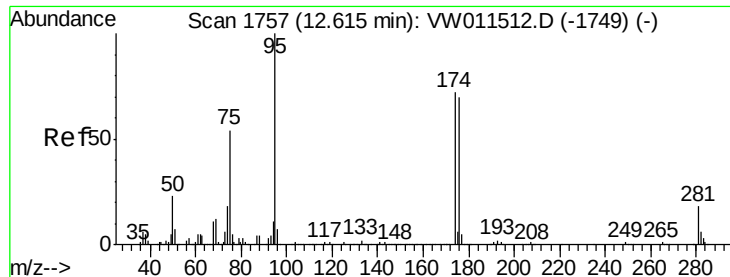
Tgt Ion: 43 Resp: 491067

Ion Ratio Lower Upper

43 100

58 3.2 24.3 72.9#

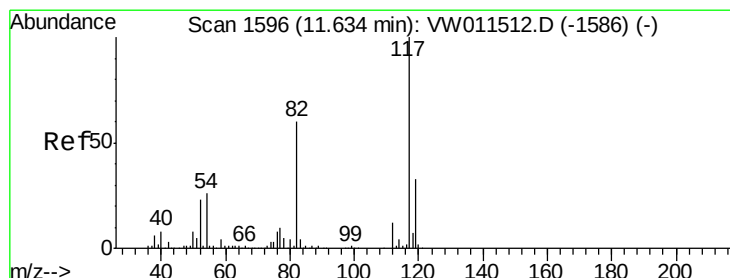
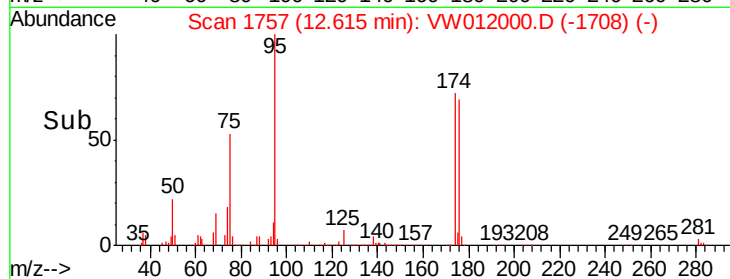
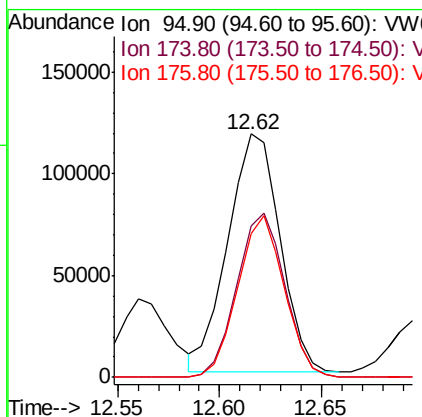
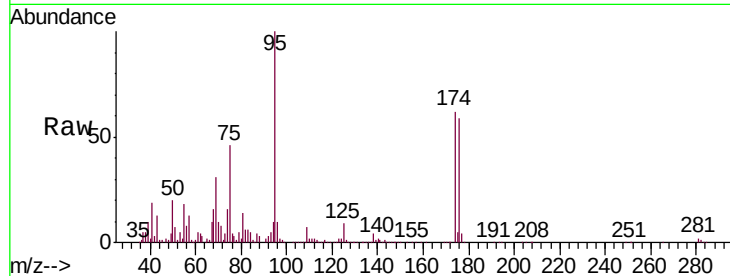




#62
4-Bromofluorobenzene
Concen: 59.750 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

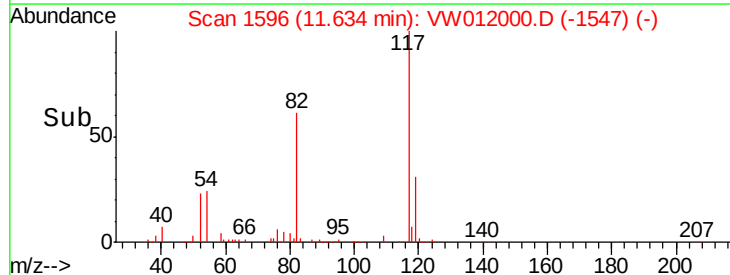
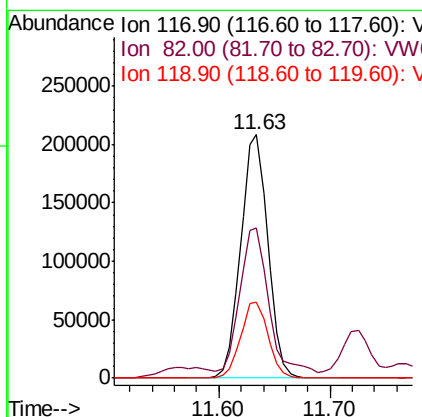
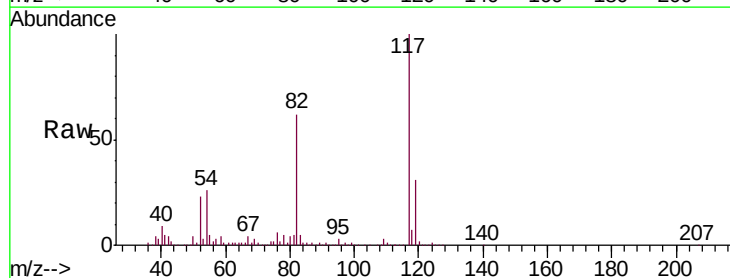
Instrument :
MSVOA_W
ClientSampleId :
W-WALL

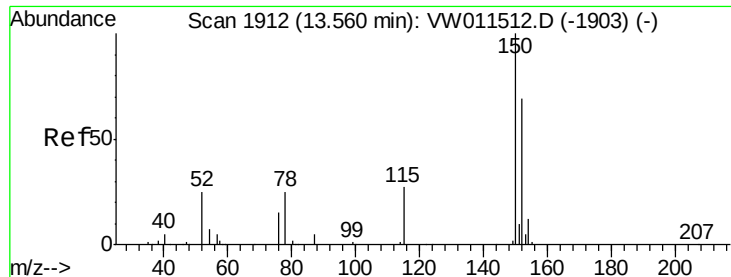
Tgt Ion: 95 Resp: 207695
Ion Ratio Lower Upper
95 100
174 63.6 0.0 150.2
176 60.6 0.0 144.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

Tgt Ion: 117 Resp: 352392
Ion Ratio Lower Upper
117 100
82 57.9 47.9 71.9
119 31.2 26.2 39.2



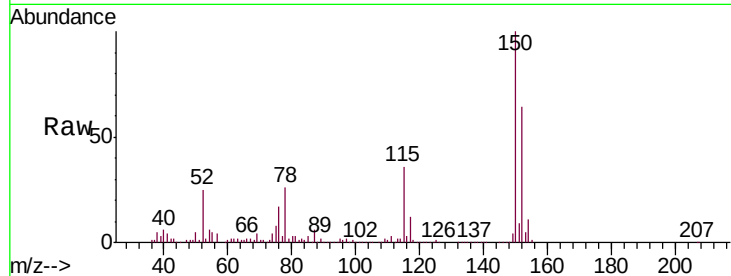


#72

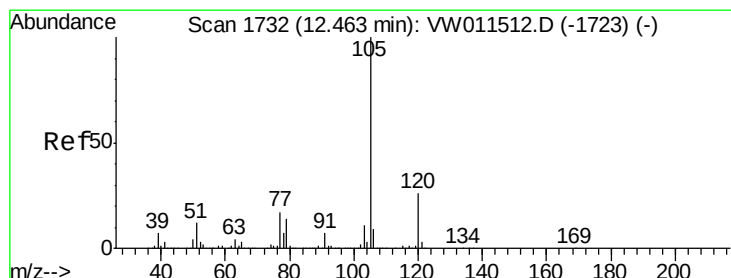
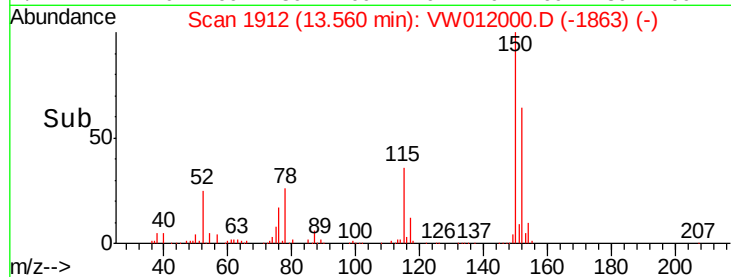
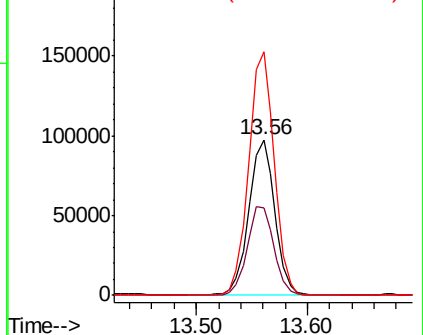
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

Instrument :
MSVOA_W
ClientSampled :
W-WALL

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.6	30.5	91.5
150	153.6	0.0	352.6



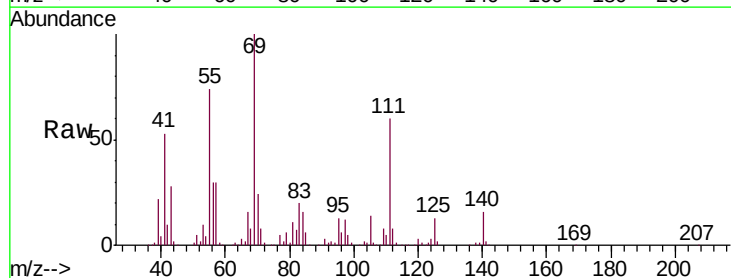
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



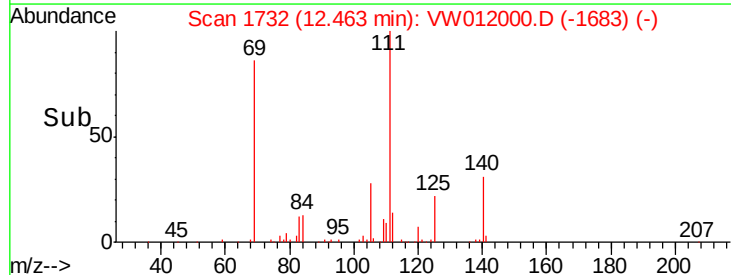
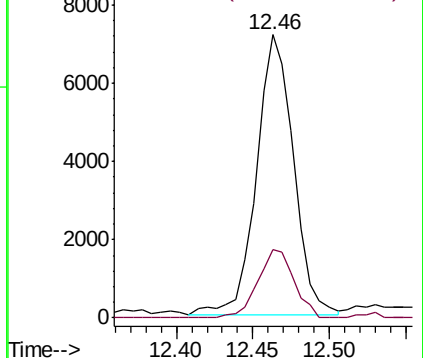
#73

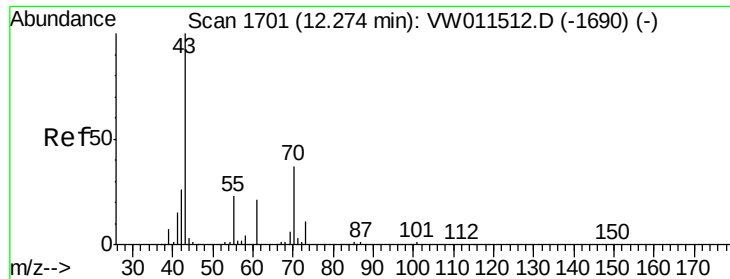
Isopropylbenzene
Concen: 1.025 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.9	12.9	38.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

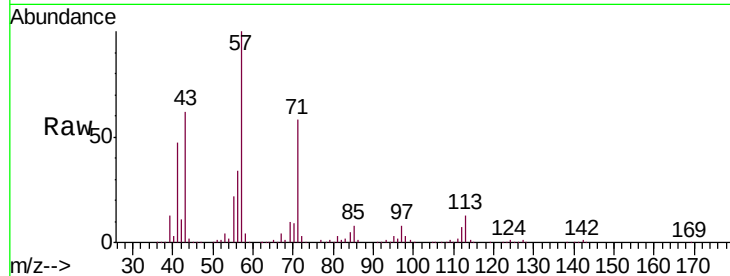




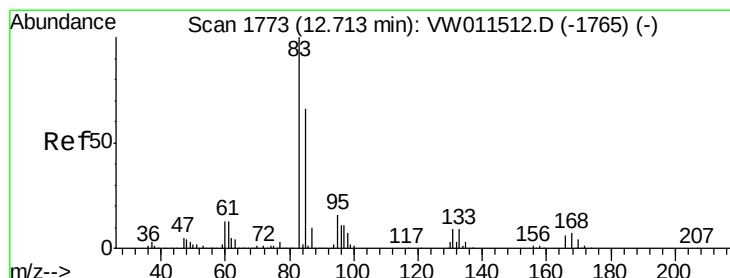
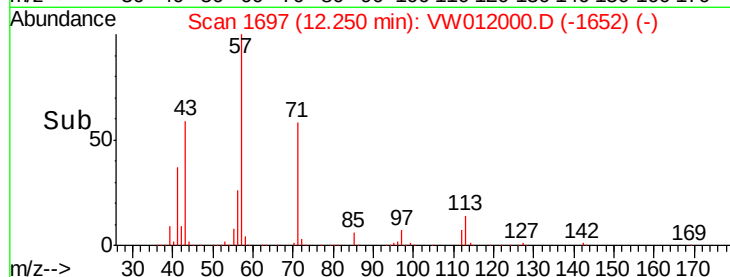
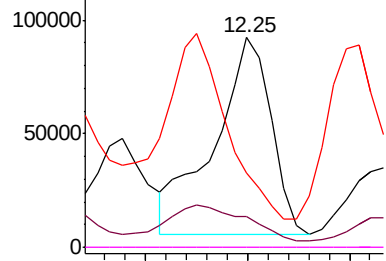
#74
N-ethyl acetate
Concen: 45.739 ug/l
RT: 12.25 min Scan# 1697
Delta R.T. -0.02 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

Instrument :
MSVOA_W
ClientSampleID :
W-WALL

Tgt Ion:	43	Resp:	168902
Ion	Ratio	Lower	Upper
43	100		
70	0.0	28.6	43.0#
55	0.0	17.8	26.8#
61	0.0	17.0	25.6#

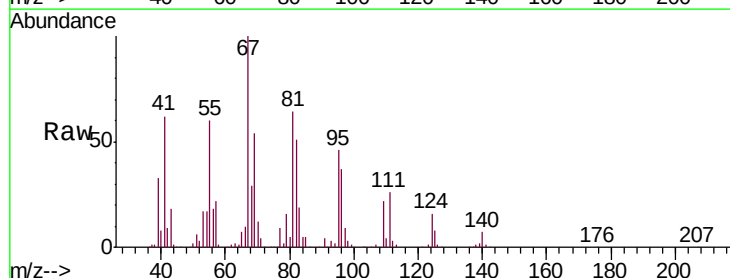


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 70.00 (69.70 to 70.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 61.00 (60.70 to 61.70): VW

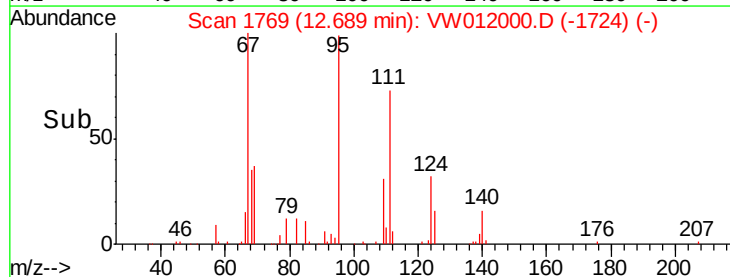
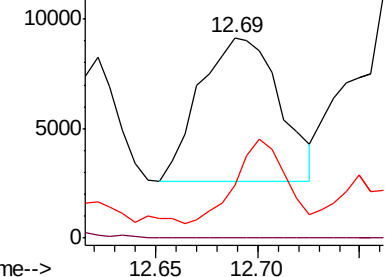


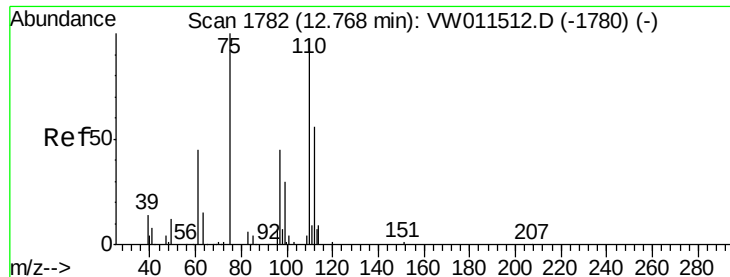
#75
1,1,2,2-Tetrachloroethane
Concen: 8.092 ug/l
RT: 12.69 min Scan# 1769
Delta R.T. -0.02 min
Lab File: VW012000.D
Acq: 19 Aug 2019 20:02

Tgt Ion:	83	Resp:	17954
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.6#
85	36.0	31.8	95.4



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 53.259 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012000.D

Acq: 19 Aug 2019 20:02

Instrument :

MSVOA_W

ClientSampled :

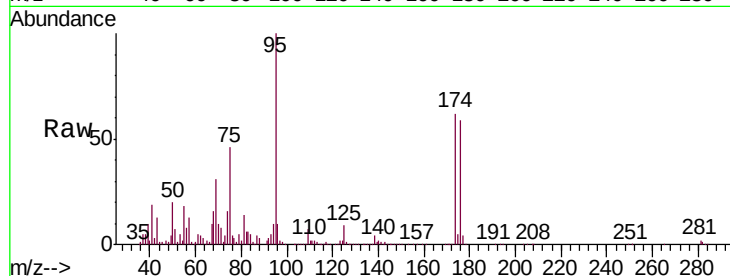
W-WALL

Tgt Ion: 75 Resp: 89100

Ion Ratio Lower Upper

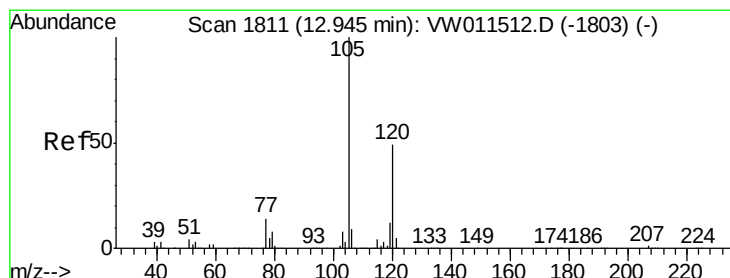
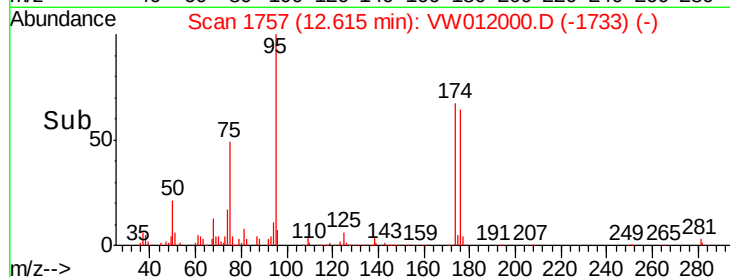
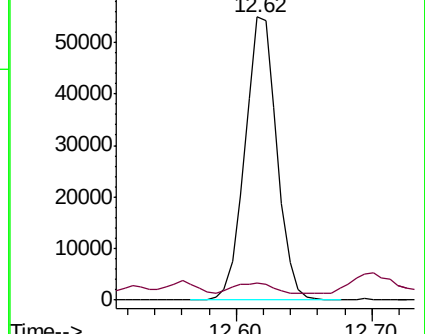
75 100

77 4.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#80

1,3,5-Trimethylbenzene

Concen: 1.069 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW012000.D

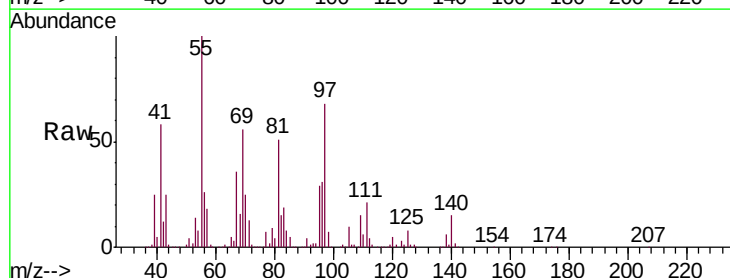
Acq: 19 Aug 2019 20:02

Tgt Ion: 105 Resp: 10573

Ion Ratio Lower Upper

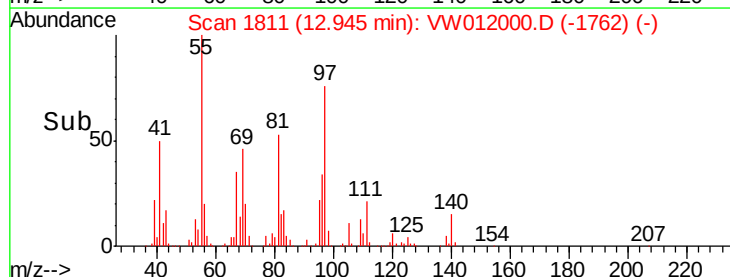
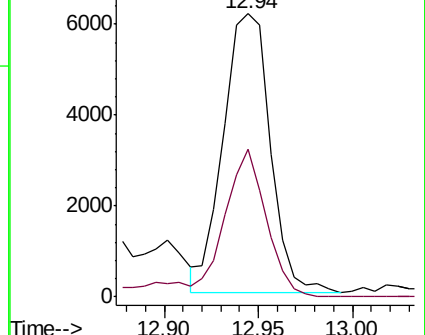
105 100

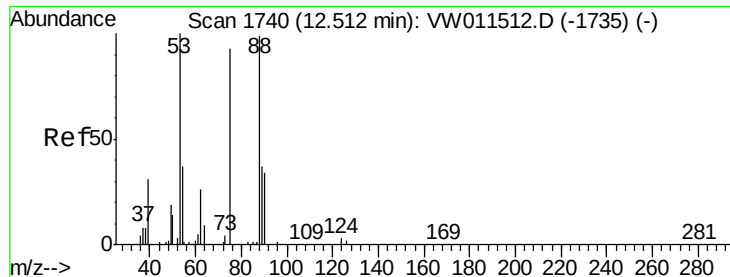
120 51.3 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 122.745 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012000.D

Acq: 19 Aug 2019 20:02

Instrument :

MSVOA_W

ClientSampled :

W-WALL

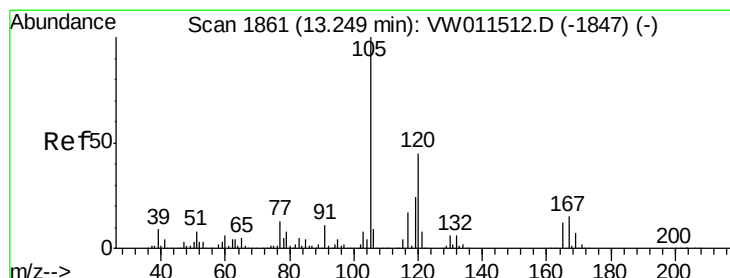
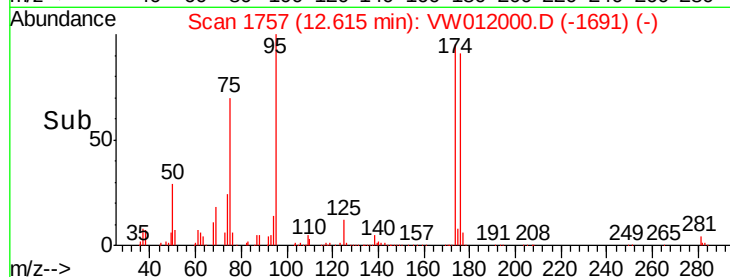
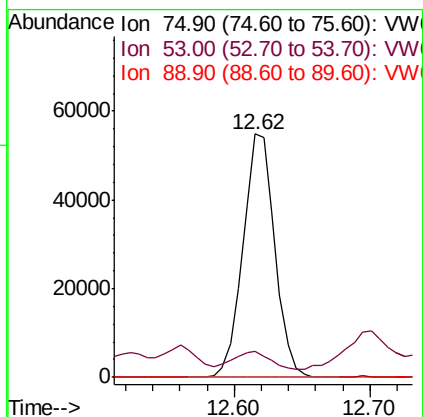
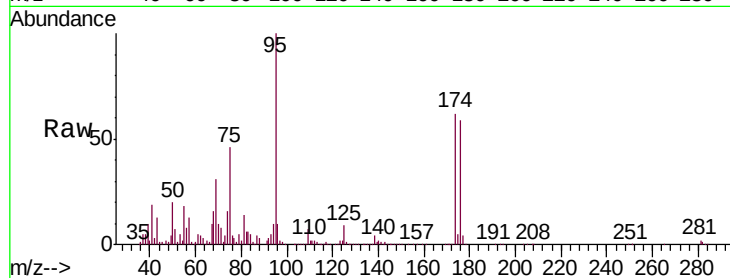
Tgt Ion: 75 Resp: 89100

Ion Ratio Lower Upper

75 100

53 7.9 88.0 132.0#

89 0.2 35.3 52.9#



#84

1,2,4-Trimethylbenzene

Concen: 1.196 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW012000.D

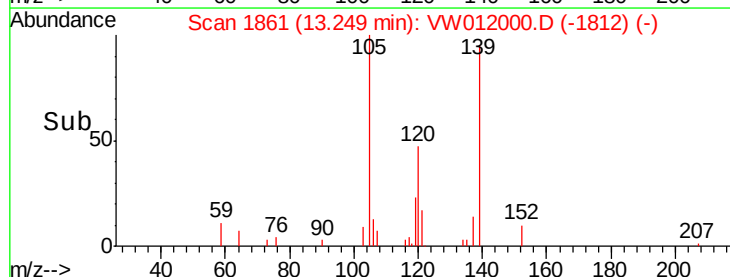
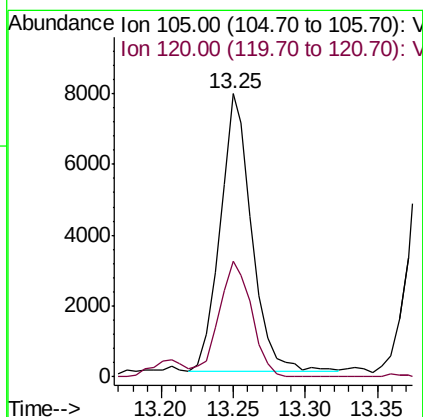
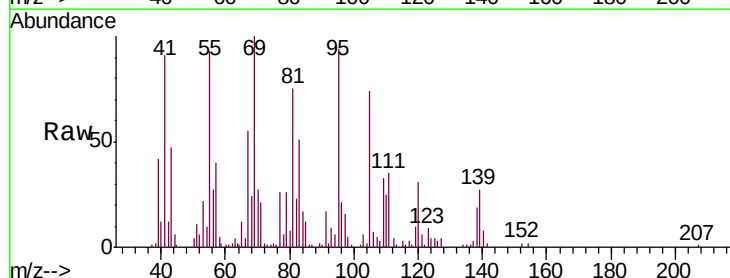
Acq: 19 Aug 2019 20:02

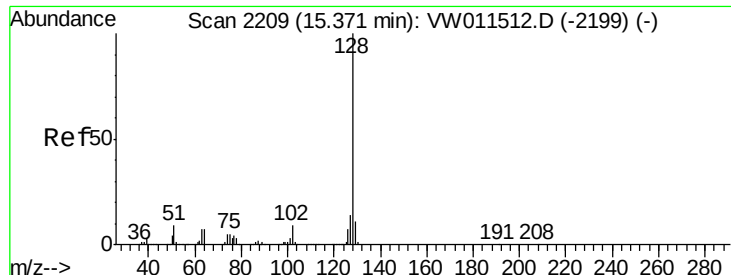
Tgt Ion: 105 Resp: 11908

Ion Ratio Lower Upper

105 100

120 43.9 22.1 66.5





#95

Naphthalene

Concen: 2.375 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW012000.D

Acq: 19 Aug 2019 20:02

Instrument :

MSVOA_W

ClientSampleId :

W-WALL

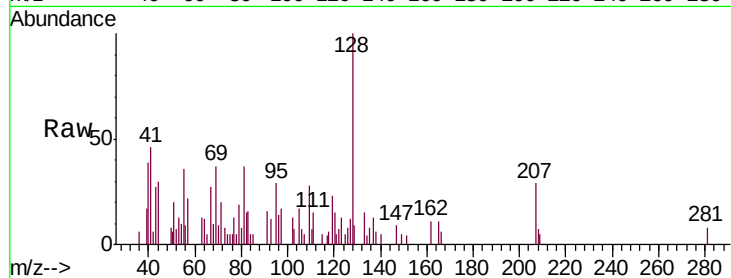
Tgt Ion:128 Resp: 2009

Ion Ratio Lower Upper

128 100

127 22.2 10.6 16.0#

129 14.1 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

