

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082019\
 Data File : VW012043.D
 Acq On : 20 Aug 2019 21:21
 Operator : SY/VA
 Sample : K4387-07
 Misc : 5.94G/5ML/MSVOA_W/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T6-D-(0)

Quant Time: Aug 21 01:36:40 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	224339	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	376296	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	271286	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	69012	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	144502	56.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.18%	
35) Dibromofluoromethane	7.88	113	115113	54.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.06%	
50) Toluene-d8	10.32	98	429785	49.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.44%	
62) 4-Bromofluorobenzene	12.62	95	110835	35.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.94%	

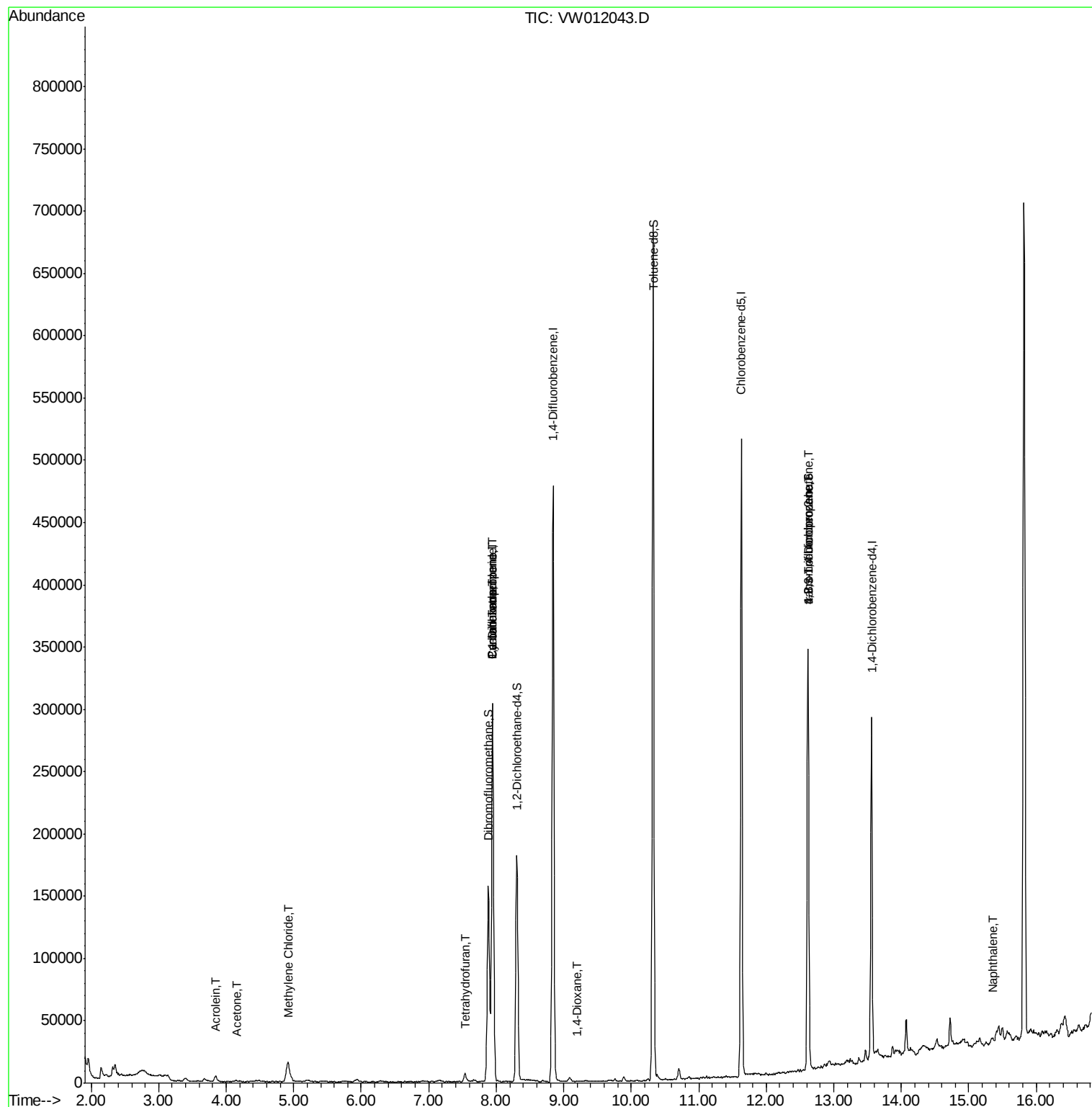
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.20	59	2667	Below Cal		95
13) Acrolein	3.84	56	207	1.120	ug/l #	1
16) Acetone	4.15	43	1900	2.319	ug/l #	72
20) Methylene Chloride	4.92	84	12126	4.291	ug/l	96
29) Tetrahydrofuran	7.54	42	5827	9.507	ug/l	97
31) Cyclohexane	7.95	56	5493	1.140	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18701	4.779	ug/l #	52
38) Carbon Tetrachloride	7.95	117	22736	6.788	ug/l #	17
49) 1,4-Dioxane	9.20	88	22	1.135	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	58319	79.864	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	58319	184.060	ug/l #	6
95) Naphthalene	15.36	128	967	2.406	ug/l #	69

(#) = 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: VW012043.D

Acq: 20 Aug 2019 21:21

Instrument :

MSVOA_W

ClientSampleId :

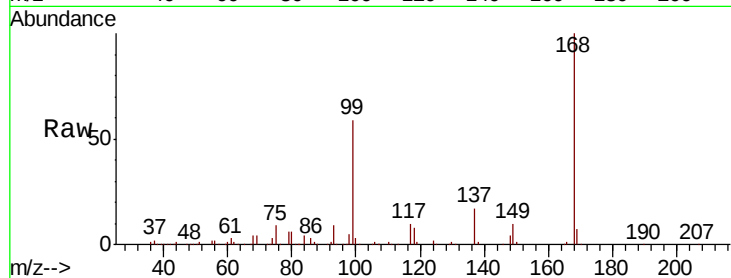
T6-D-(0)

Tgt Ion:168 Resp: 224339

Ion Ratio Lower Upper

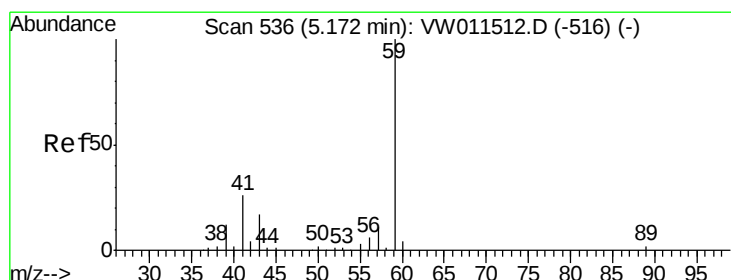
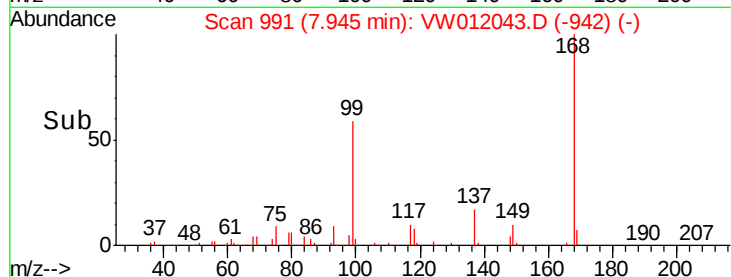
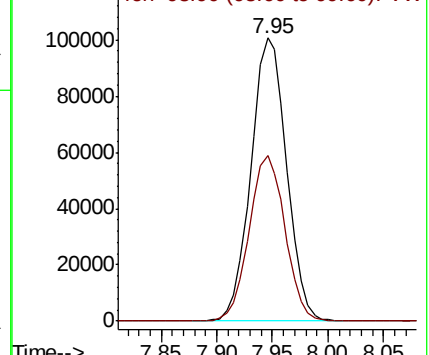
168 100

99 58.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 541

Delta R.T. 0.03 min

Lab File: VW012043.D

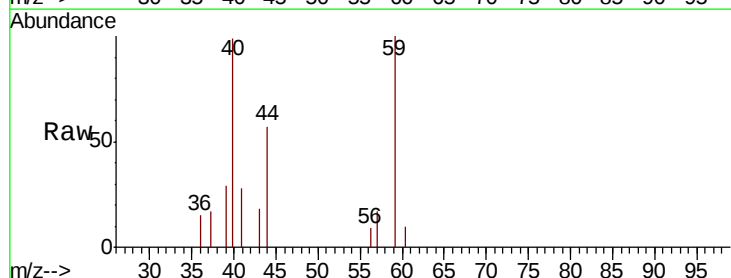
Acq: 20 Aug 2019 21:21

Tgt Ion: 59 Resp: 2667

Ion Ratio Lower Upper

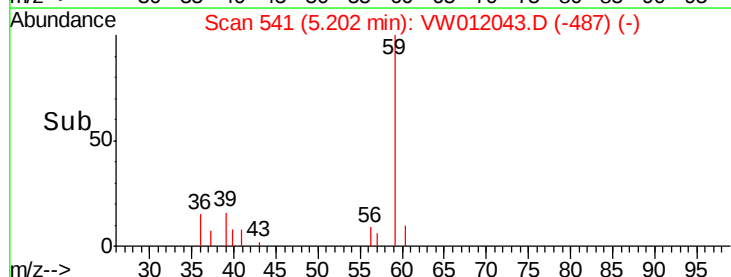
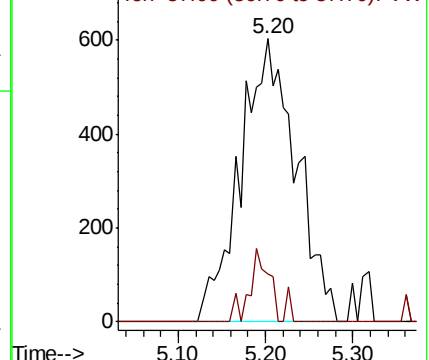
59 100

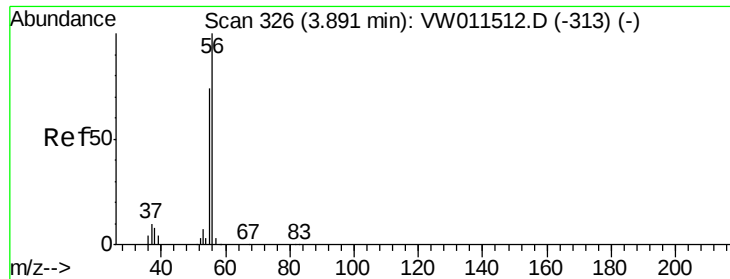
57 8.8 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.120 ug/l

RT: 3.84 min Scan# 317

Delta R.T. -0.05 min

Lab File: VW012043.D

Acq: 20 Aug 2019 21:21

Instrument :

MSVOA_W

ClientSampleId :

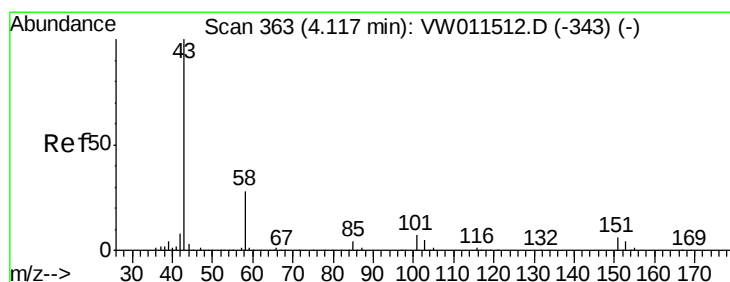
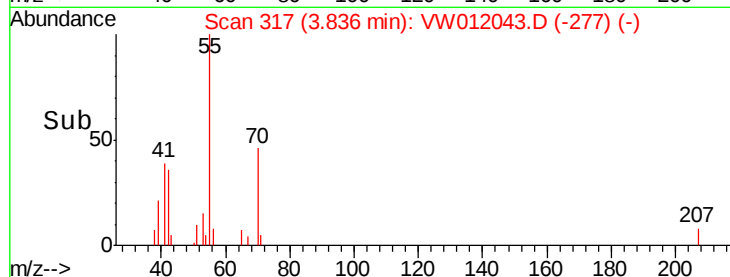
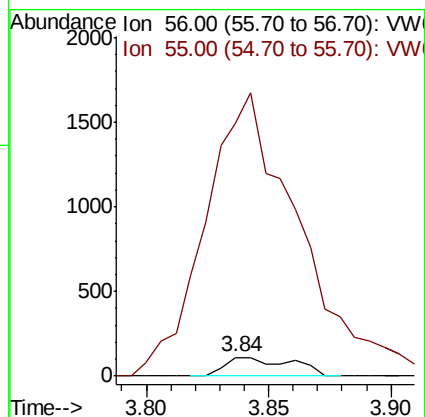
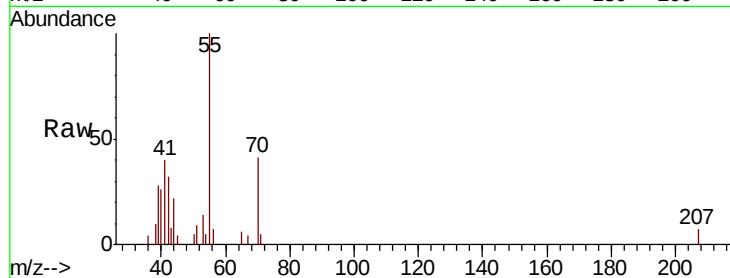
T6-D-(0)

Tgt Ion: 56 Resp: 207

Ion Ratio Lower Upper

56 100

55 2164.7 56.0 84.0#



#16

Acetone

Concen: 2.319 ug/l

RT: 4.15 min Scan# 369

Delta R.T. 0.04 min

Lab File: VW012043.D

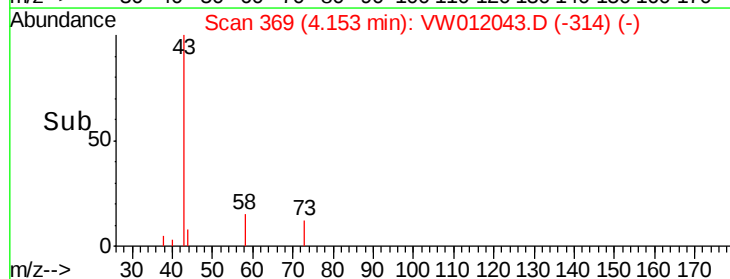
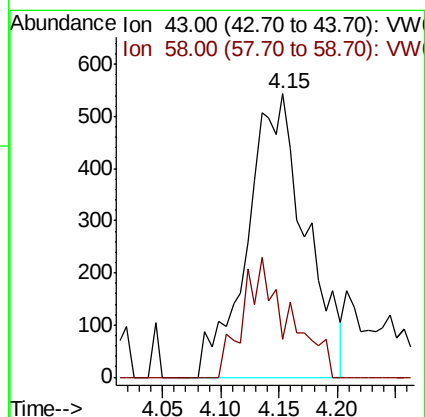
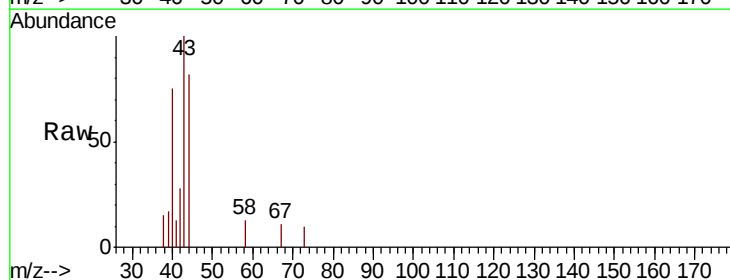
Acq: 20 Aug 2019 21:21

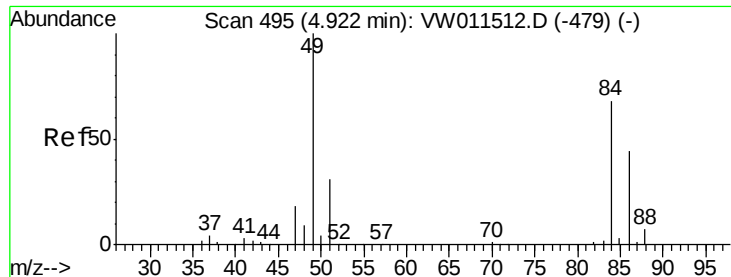
Tgt Ion: 43 Resp: 1900

Ion Ratio Lower Upper

43 100

58 13.4 22.3 33.5#

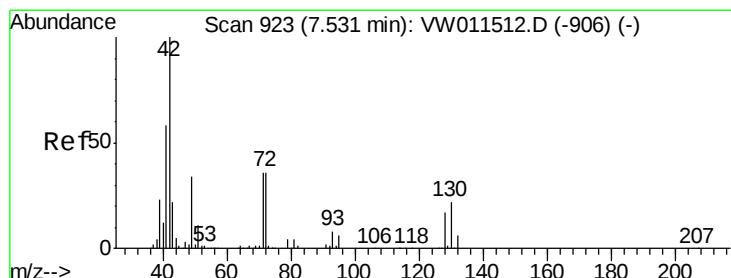
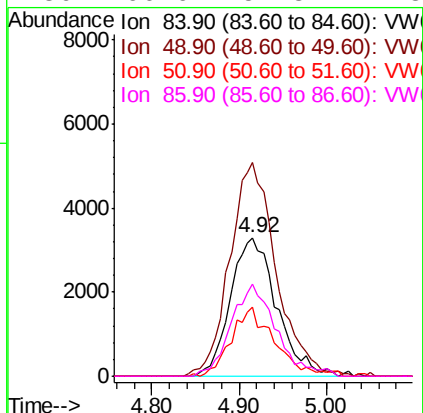
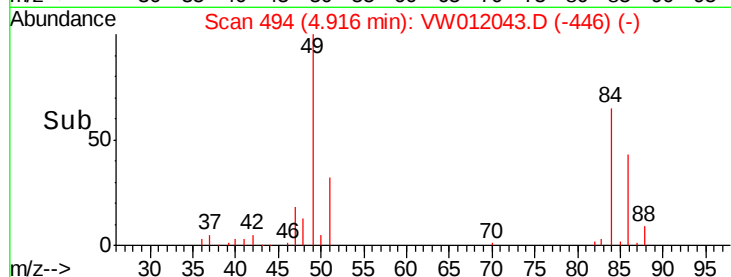
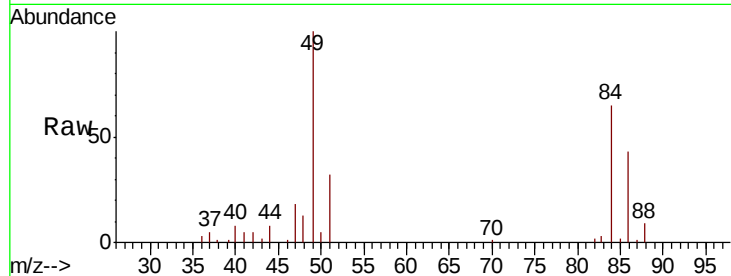




#20
Methylene Chloride
Concen: 4.291 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012043.D
Acq: 20 Aug 2019 21:21

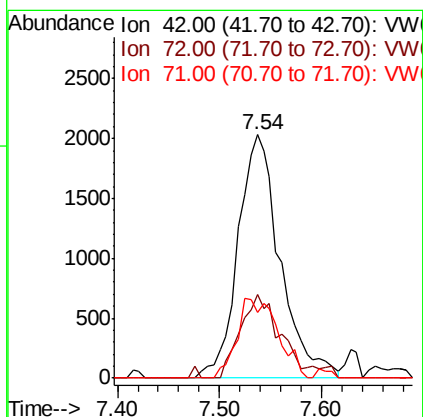
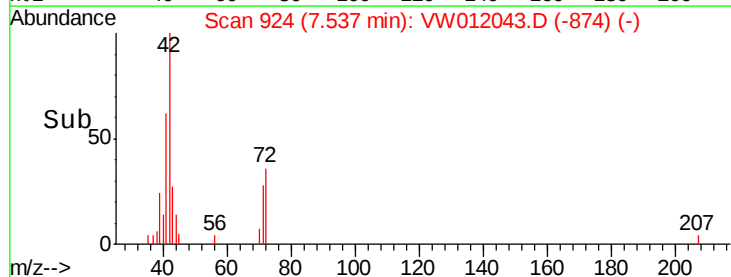
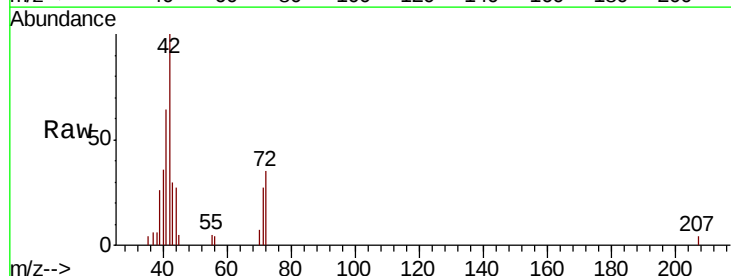
Instrument :
MSVOA_W
ClientSampleId :
T6-D-(0)

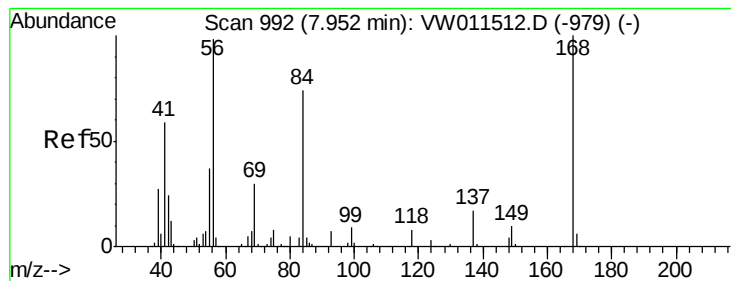
Tgt Ion:	84	Resp:	12126
Ion	Ratio	Lower	Upper
84	100		
49	152.2	117.8	176.6
51	49.6	37.0	55.4
86	66.6	51.8	77.8



#29
Tetrahydrofuran
Concen: 9.507 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012043.D
Acq: 20 Aug 2019 21:21

Tgt Ion:	42	Resp:	5827
Ion	Ratio	Lower	Upper
42	100		
72	32.1	27.1	40.7
71	31.5	26.2	39.4





#31

Cyclohexane

Concen: 1.140 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012043.D

Acq: 20 Aug 2019 21:21

Instrument :

MSVOA_W

ClientSampleId :

T6-D-(0)

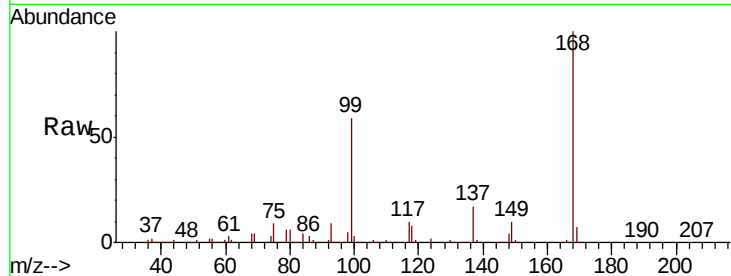
Tgt Ion: 56 Resp: 5493

Ion Ratio Lower Upper

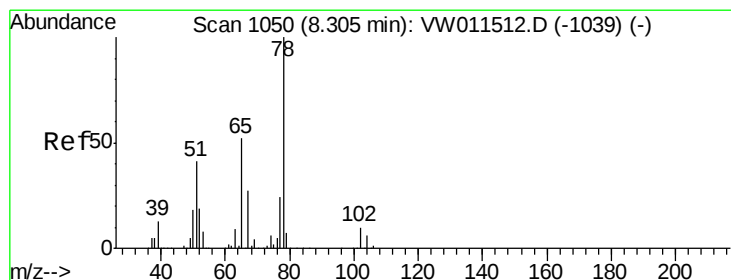
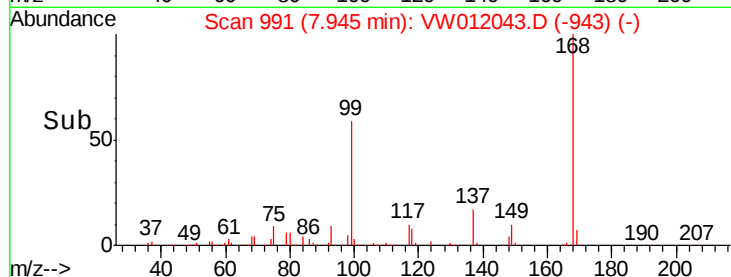
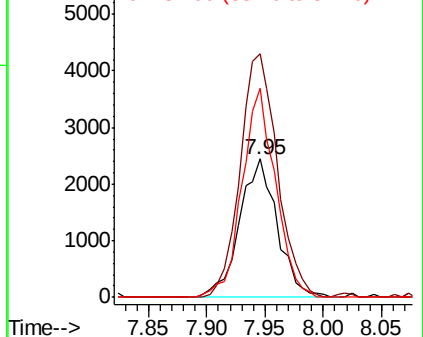
56 100

69 176.0 24.3 36.5#

84 151.5 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: 56.095 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012043.D

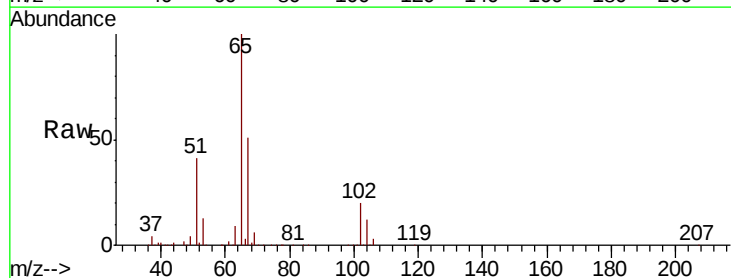
Acq: 20 Aug 2019 21:21

Tgt Ion: 65 Resp: 144502

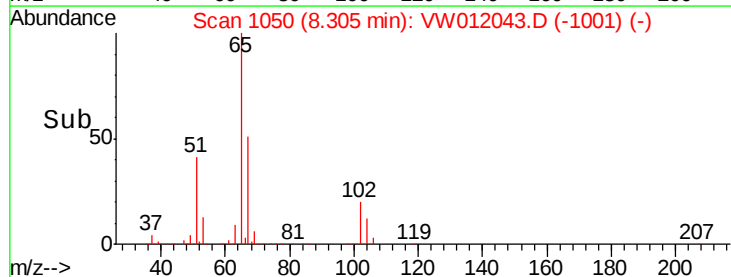
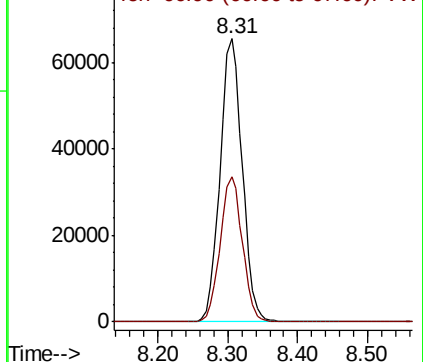
Ion Ratio Lower Upper

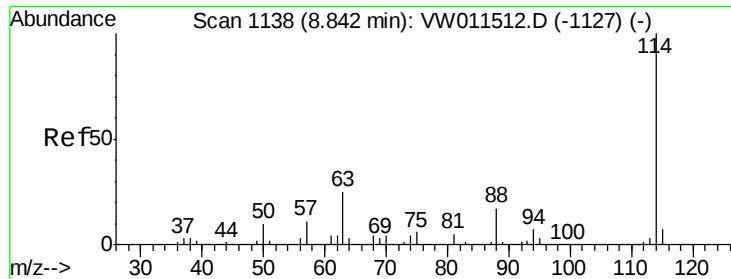
65 100

67 51.3 0.0 105.2



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

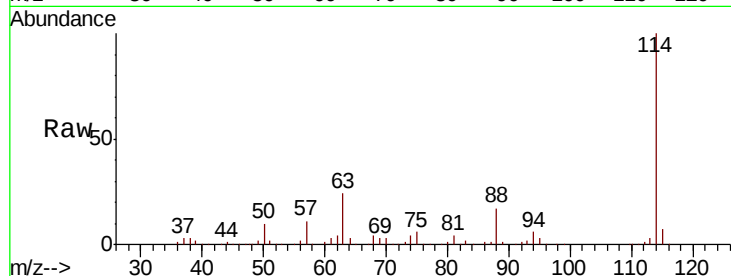




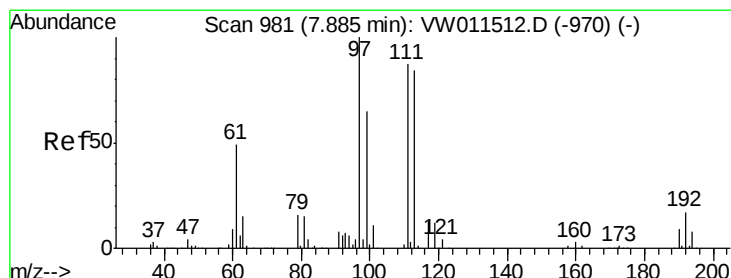
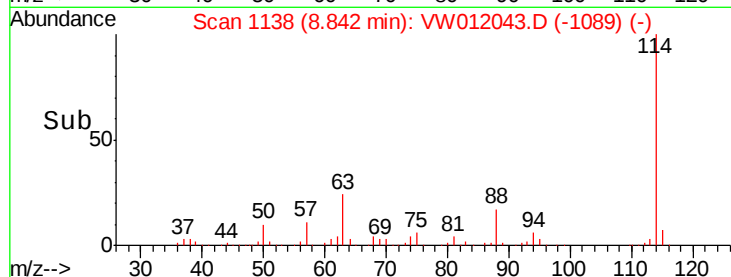
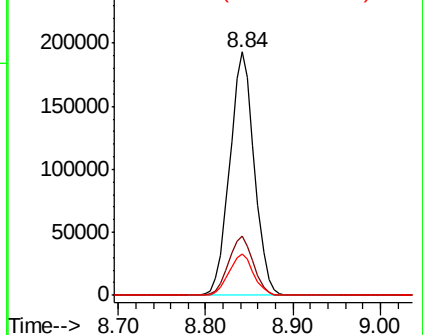
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW012043.D
 Acq: 20 Aug 2019 21:21

Instrument :
 MSVOA_W
 ClientSampleId :
 T6-D-(0)

Tgt Ion:114 Resp: 376296
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 49.2
 88 16.8 0.0 33.8

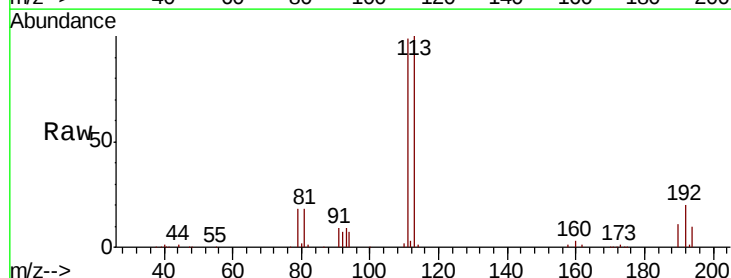


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

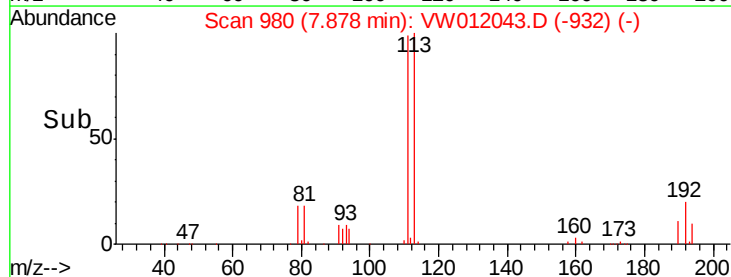
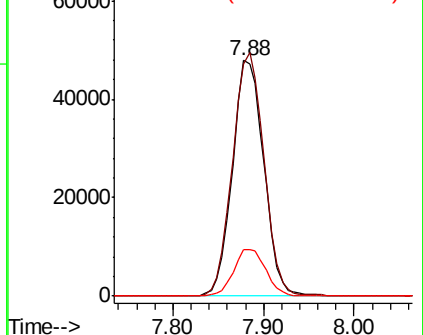


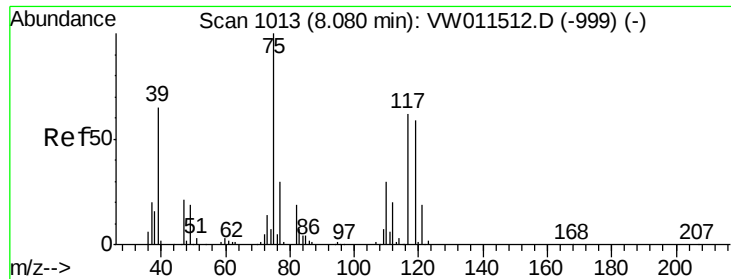
#35
 Dibromofluoromethane
 Concen: 54.528 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012043.D
 Acq: 20 Aug 2019 21:21

Tgt Ion:113 Resp: 115113
 Ion Ratio Lower Upper
 113 100
 111 103.4 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

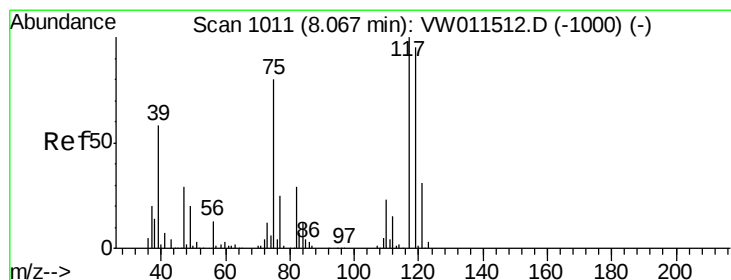
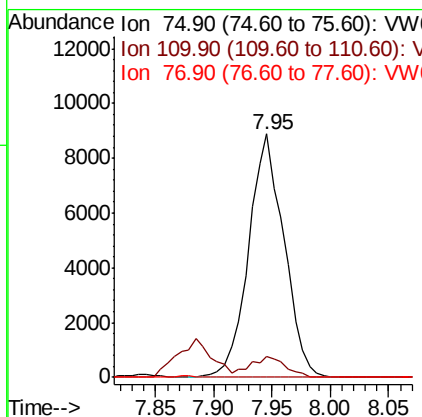
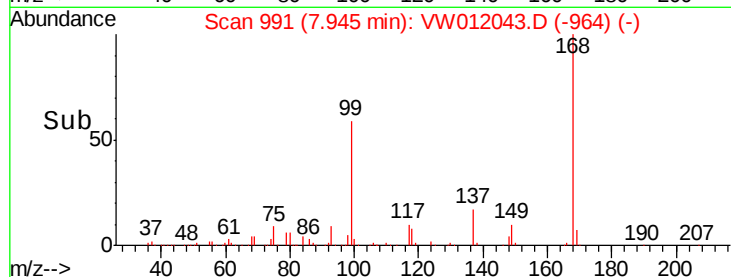
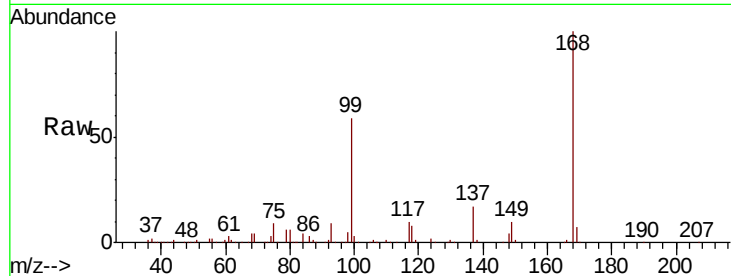




#36
 1,1-Dichloropropene
 Concen: 4.779 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012043.D
 Acq: 20 Aug 2019 21:21

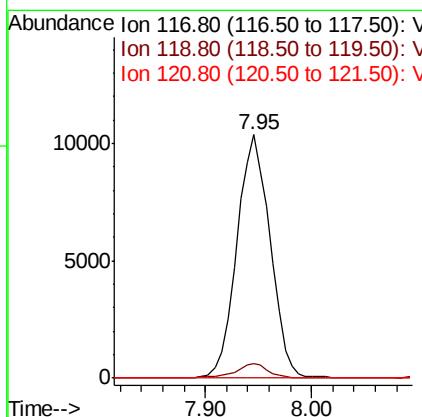
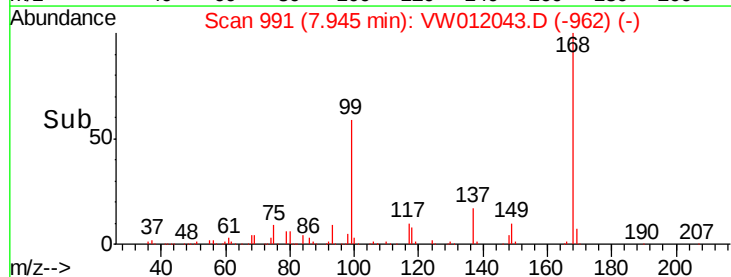
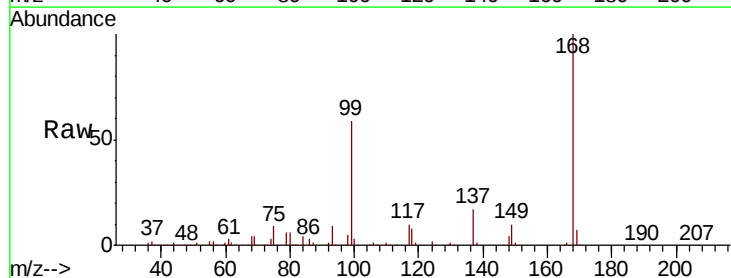
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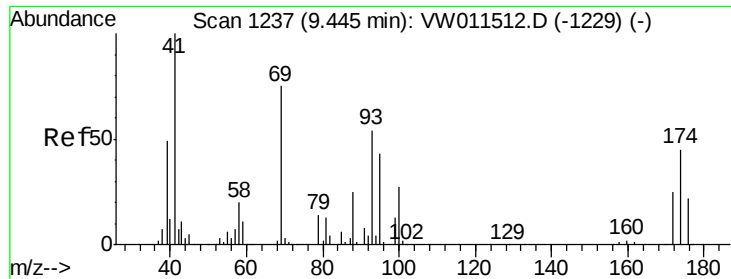
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	15.6	46.8#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 6.788 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012043.D
 Acq: 20 Aug 2019 21:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	75.8	113.6#
121	0.0	24.7	37.1#

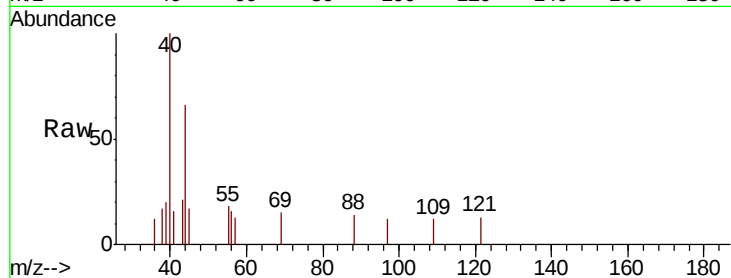




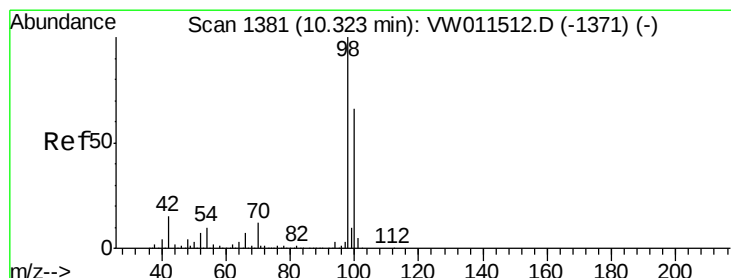
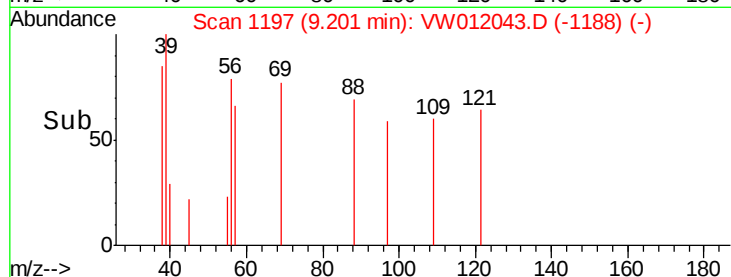
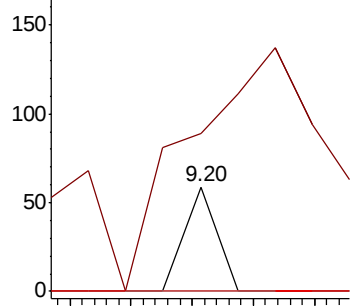
#49
1,4-Dioxane
Concen: 1.135 ug/l
RT: 9.20 min Scan# 1197
Delta R.T. -0.24 min
Lab File: VW012043.D
Acq: 20 Aug 2019 21:21

Instrument :
MSVOA_W
ClientSampled :
T6-D-(0)

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 1054.5 34.0 51.0#
58 0.0 69.7 104.5#

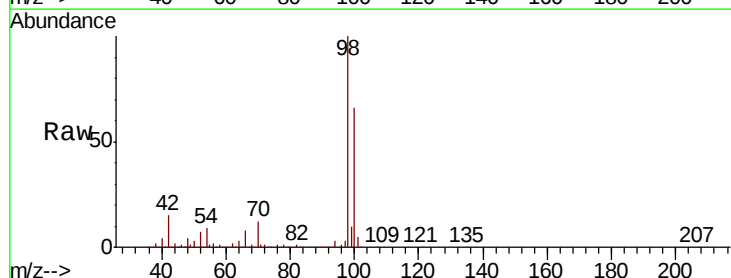


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

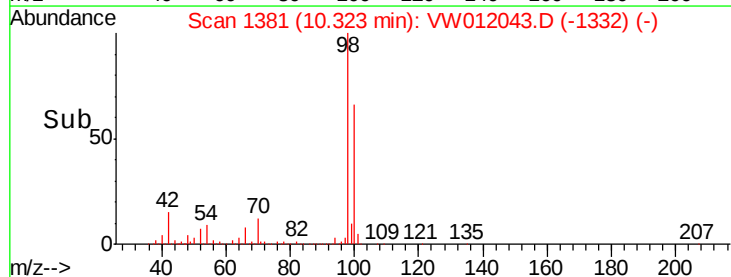
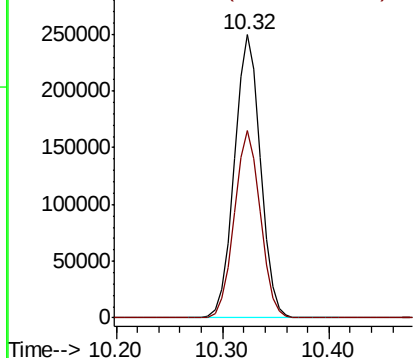


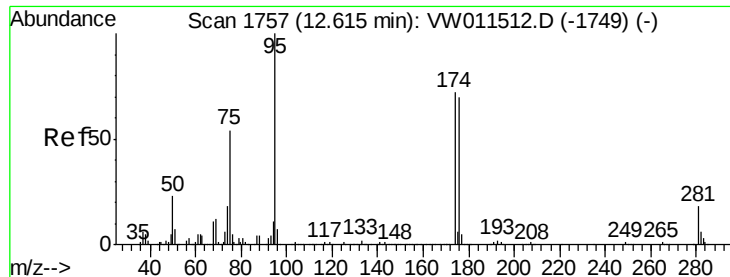
#50
Toluene-d8
Concen: 49.724 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012043.D
Acq: 20 Aug 2019 21:21

Tgt Ion: 98 Resp: 429785
Ion Ratio Lower Upper
98 100
100 65.9 52.7 79.1



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





#62

4-Bromofluorobenzene

Concen: 35.967 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012043.D

Acq: 20 Aug 2019 21:21

Instrument :

MSVOA_W

ClientSampleId :

T6-D-(0)

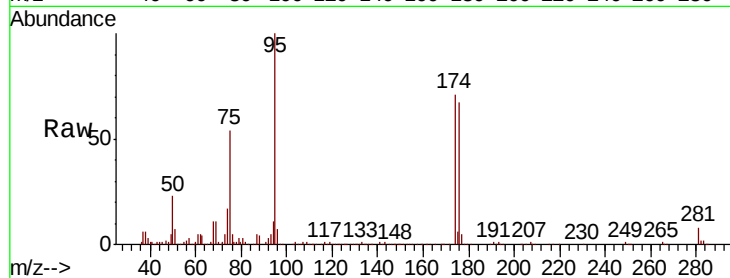
Tgt Ion: 95 Resp: 110835

Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.2

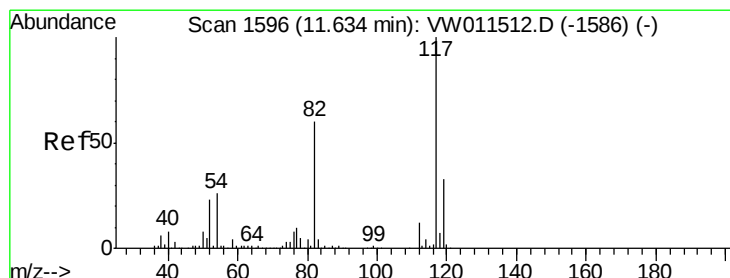
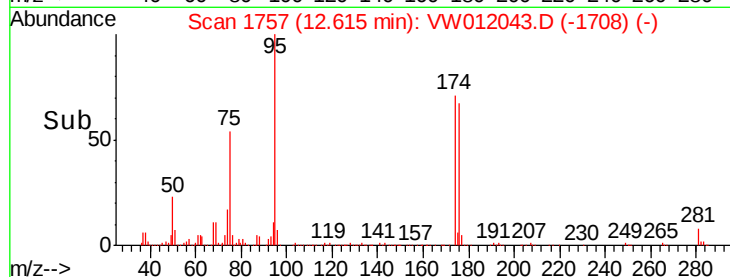
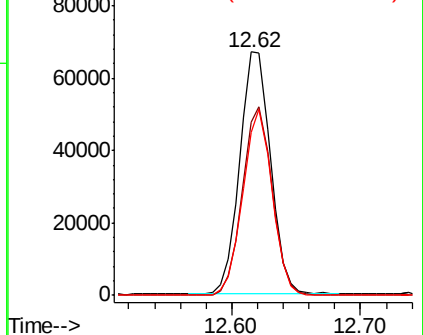
176 73.0 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW012043.D

Acq: 20 Aug 2019 21:21

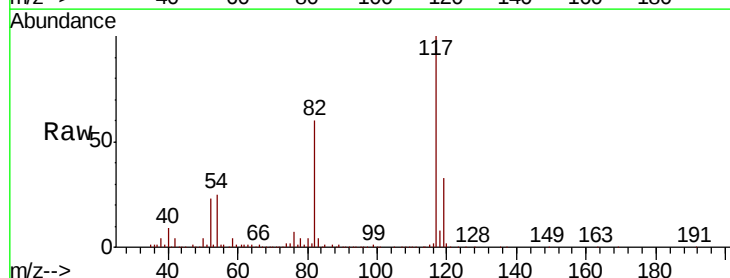
Tgt Ion: 117 Resp: 271286

Ion Ratio Lower Upper

117 100

82 60.0 47.9 71.9

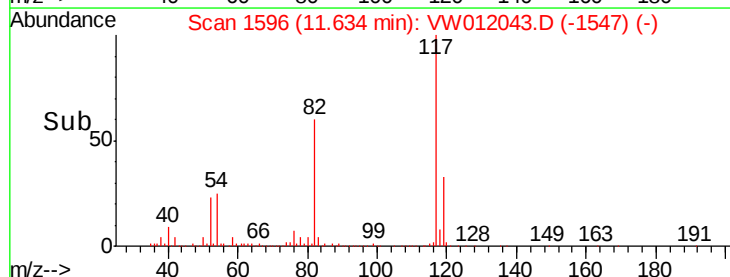
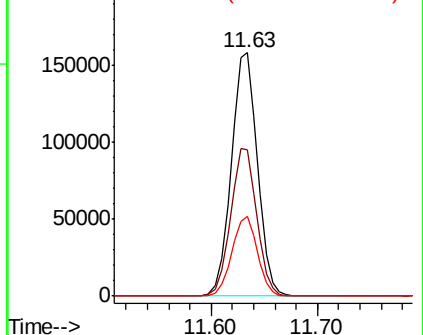
119 32.9 26.2 39.2

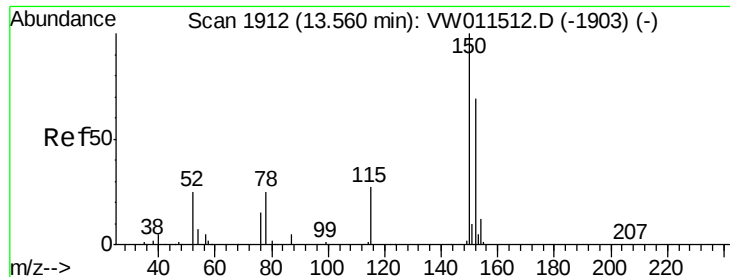


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW012043.D

Acq: 20 Aug 2019 21:21

Instrument :

MSVOA_W

ClientSampleId :

T6-D-(0)

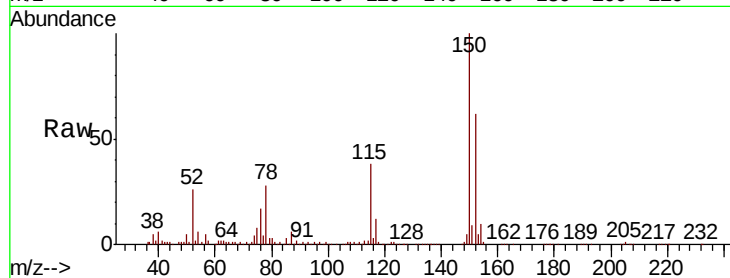
Tgt Ion:152 Resp: 69012

Ion Ratio Lower Upper

152 100

115 60.1 30.5 91.5

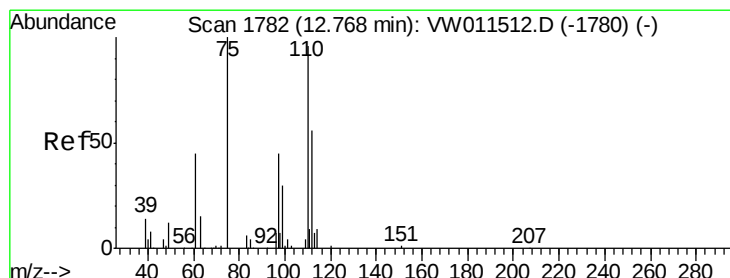
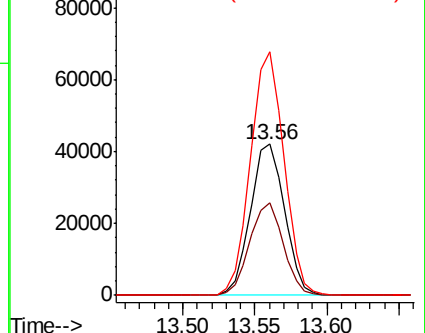
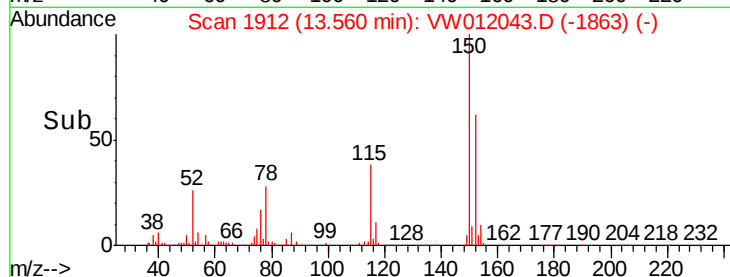
150 157.3 0.0 352.6



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



#76

1,2,3-Trichloropropane

Concen: 79.864 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012043.D

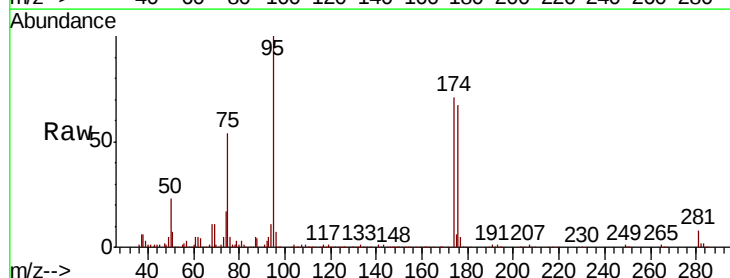
Acq: 20 Aug 2019 21:21

Tgt Ion: 75 Resp: 58319

Ion Ratio Lower Upper

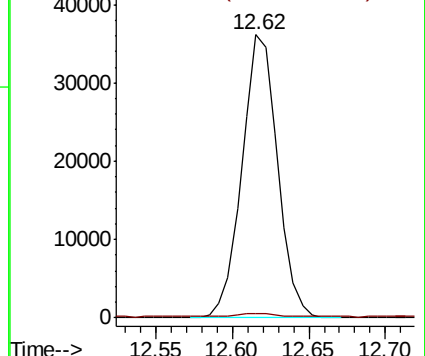
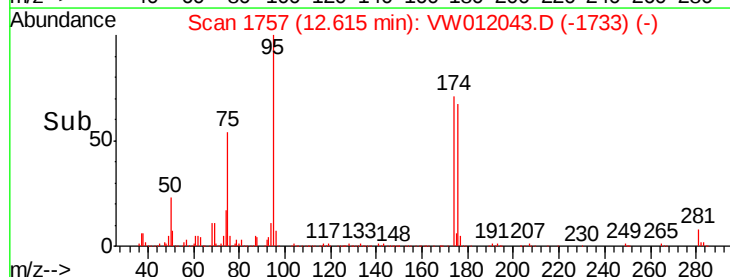
75 100

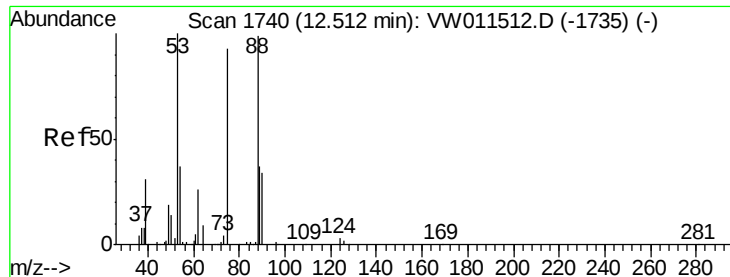
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 184.060 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012043.D

Acq: 20 Aug 2019 21:21

Instrument :

MSVOA_W

ClientSampleId :

T6-D-(0)

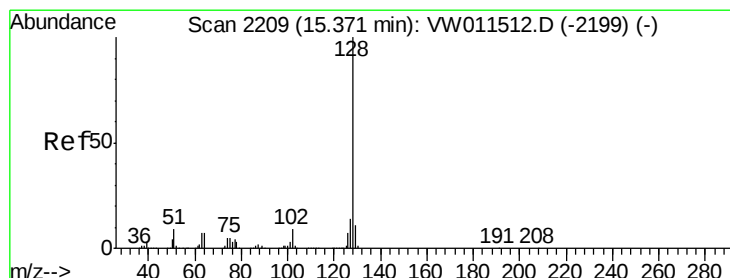
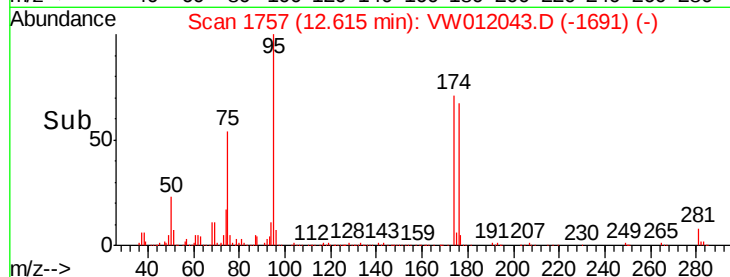
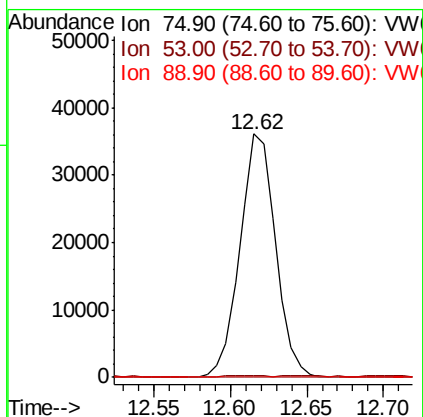
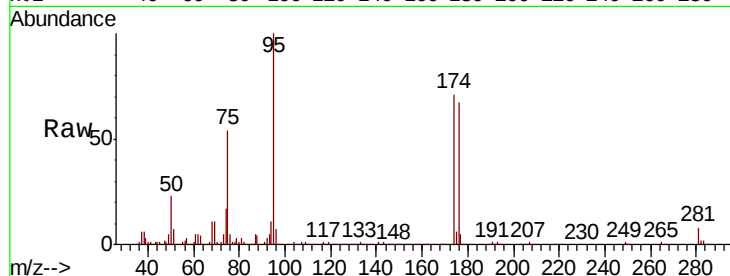
Tgt Ion: 75 Resp: 58319

Ion Ratio Lower Upper

75 100

53 0.1 88.0 132.0#

89 0.2 35.3 52.9#



#95

Naphthalene

Concen: 2.406 ug/l

RT: 15.36 min Scan# 2207

Delta R.T. -0.01 min

Lab File: VW012043.D

Acq: 20 Aug 2019 21:21

Tgt Ion: 128 Resp: 967

Ion Ratio Lower Upper

128 100

127 12.7 10.6 16.0

129 36.0 8.6 13.0#

