

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081719\
 Data File : VW011960.D
 Acq On : 16 Aug 2019 13:09
 Operator : SY/VA
 Sample : K4339-07RE
 Misc : 5.97G/5ML/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T8-A2-(4)RE

Quant Time: Aug 17 04:59:05 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	12180	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	18334	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	14249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	3477	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	7652	54.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.42%	
35) Dibromofluoromethane	7.88	113	5621	54.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.30%	
50) Toluene-d8	10.32	98	22010	52.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.52%	
62) 4-Bromofluorobenzene	12.62	95	6073	40.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.90%	

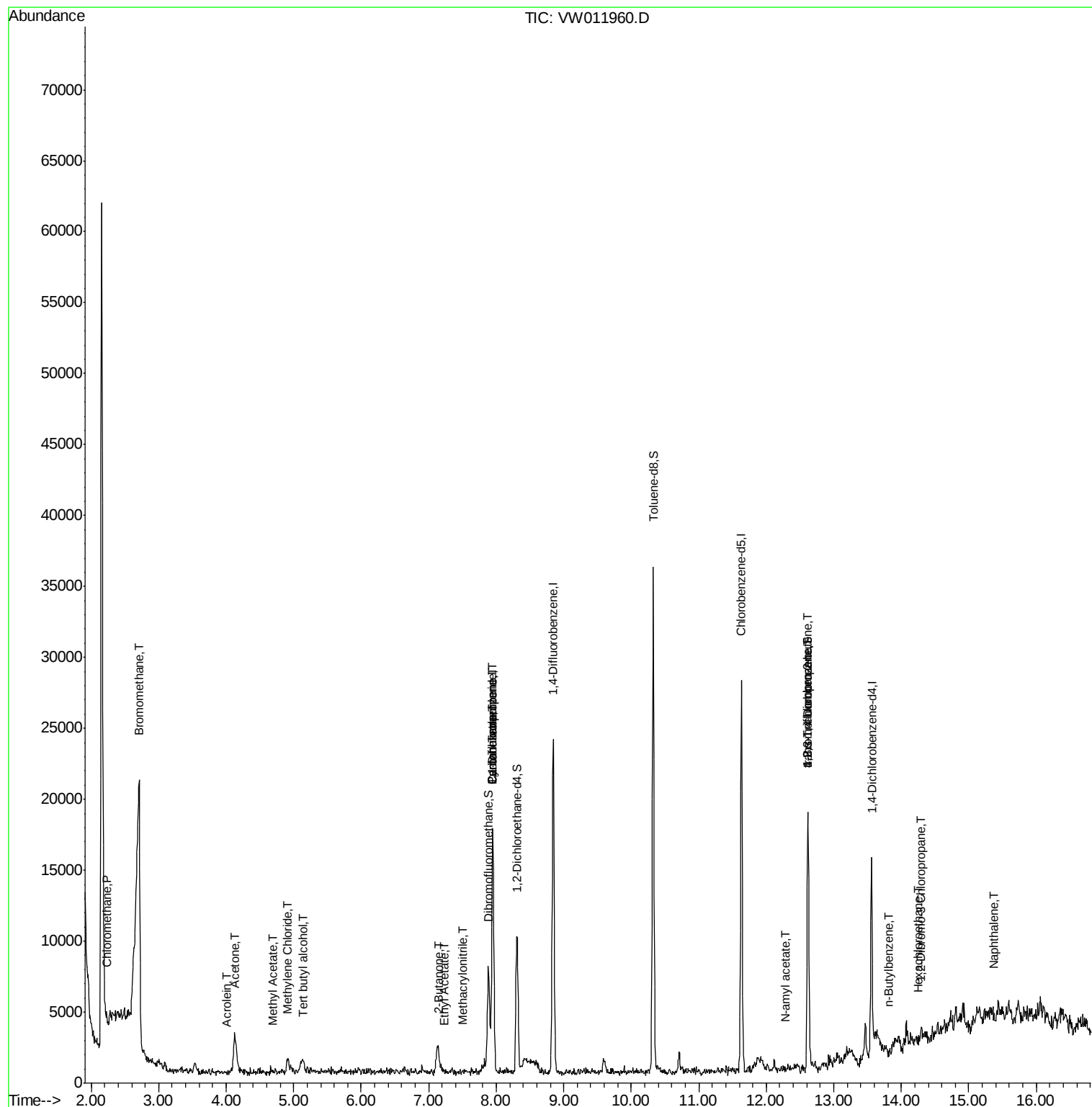
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.23	50	237	2.013	ug/l #	17
5) Bromomethane	2.71	94	227	2.894	ug/l	95
11) Tert butyl alcohol	5.14	59	532	36.300	ug/l #	72
13) Acrolein	3.99	56	20	1.993	ug/l #	1
16) Acetone	4.12	43	5580	125.424	ug/l	93
18) Methyl Acetate	4.70	43	303	3.032	ug/l #	57
20) Methylene Chloride	4.91	84	349	2.275	ug/l #	55
25) 2-Butanone	7.16	43	144	2.474	ug/l #	56
31) Cyclohexane	7.95	56	415	1.587	ug/l #	44
36) 1,1-Dichloropropene	7.95	75	1221	6.405	ug/l #	49
37) Ethyl Acetate	7.23	43	165	1.504	ug/l #	73
38) Carbon Tetrachloride	7.95	117	1302	7.978	ug/l #	13
41) Methacrylonitrile	7.50	41	71	1.083	ug/l #	47
74) N-amyl acetate	12.28	43	95	1.170	ug/l #	42
76) 1,2,3-Trichloropropane	12.62	75	3015	81.950	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	3015	188.867	ug/l #	6
89) n-Butylbenzene	13.81	91	237	1.009	ug/l #	32
90) Hexachloroethane	14.24	117	46	1.105	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.30	75	20	2.404	ug/l #	5
95) Naphthalene	15.37	128	165	3.218	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# 992

Delta R.T. 0.01 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

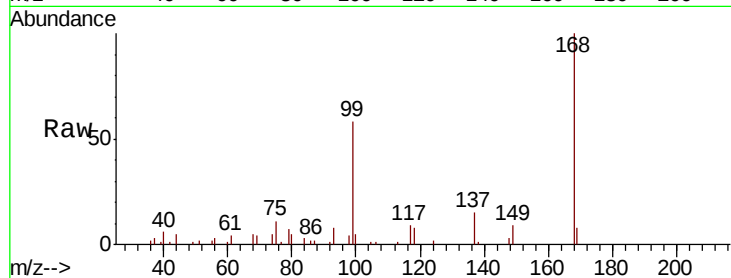
T8-A2-(4)RE

Tgt Ion:168 Resp: 12180

Ion Ratio Lower Upper

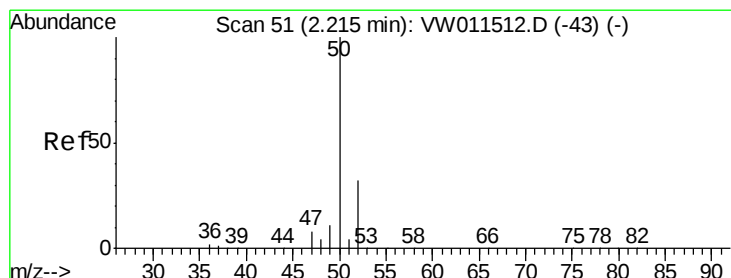
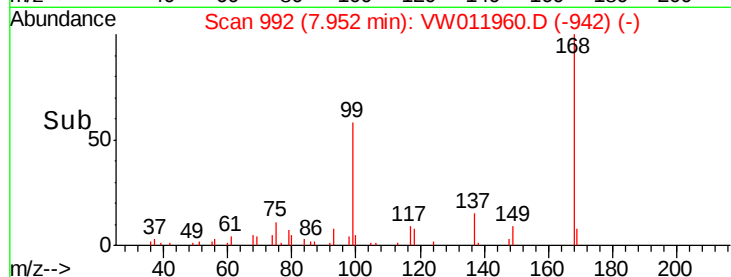
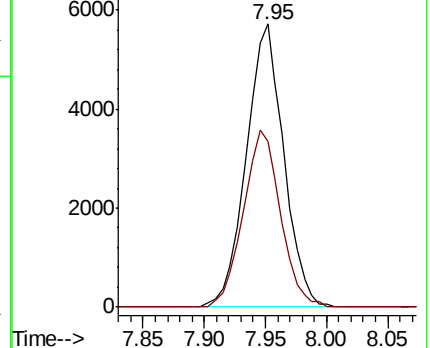
168 100

99 58.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 2.013 ug/l

RT: 2.23 min Scan# 53

Delta R.T. 0.01 min

Lab File: VW011960.D

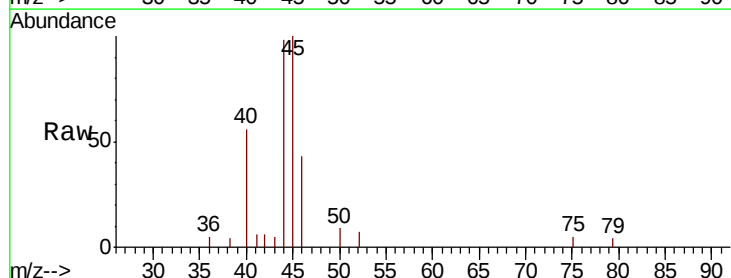
Acq: 16 Aug 2019 13:09

Tgt Ion: 50 Resp: 237

Ion Ratio Lower Upper

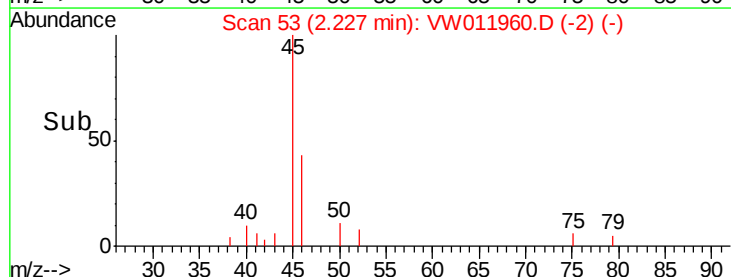
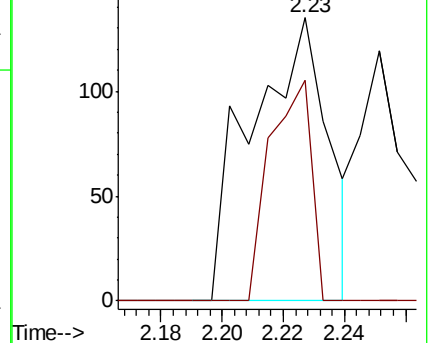
50 100

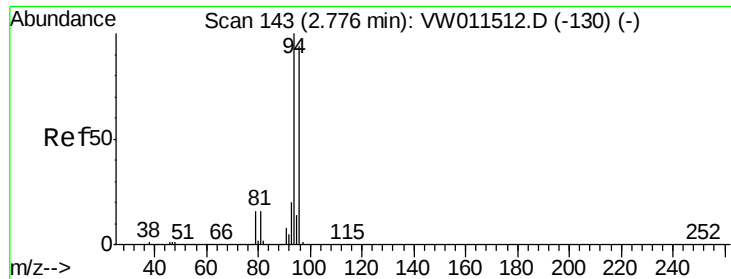
52 77.8 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#5

Bromomethane

Concen: 2.894 ug/l

RT: 2.71 min Scan# 133

Delta R.T. -0.06 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampled :

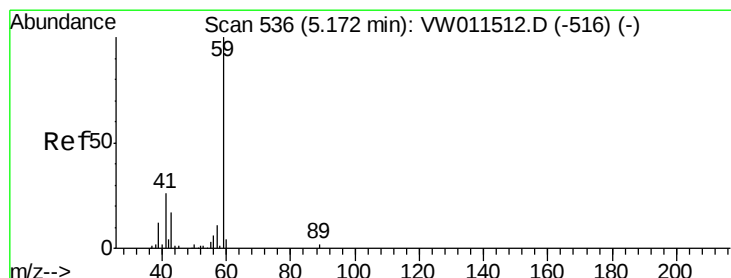
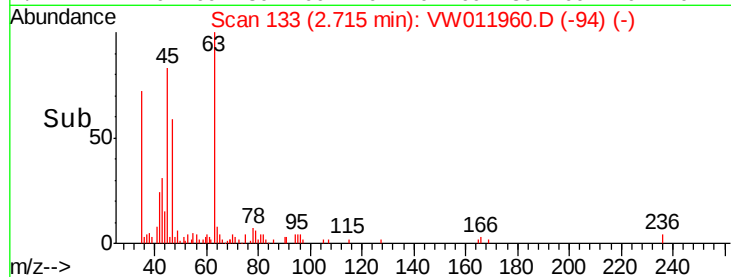
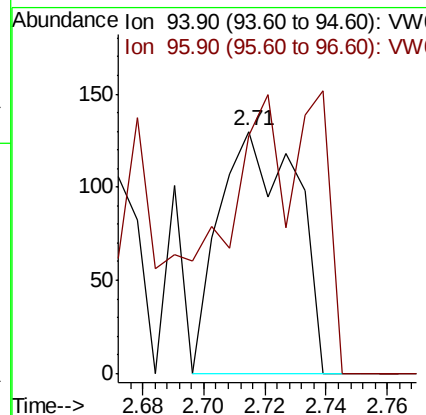
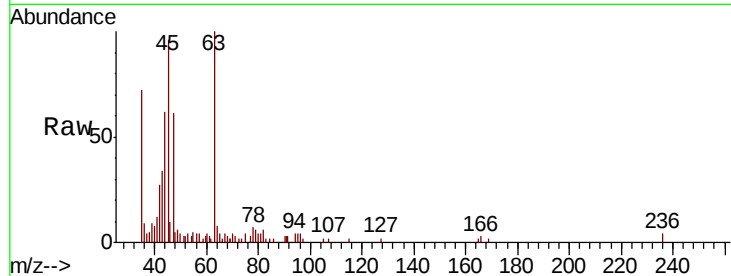
T8-A2-(4)RE

Tgt Ion: 94 Resp: 227

Ion Ratio Lower Upper

94 100

96 98.5 75.0 112.6



#11

Tert butyl alcohol

Concen: 36.300 ug/l

RT: 5.14 min Scan# 531

Delta R.T. -0.03 min

Lab File: VW011960.D

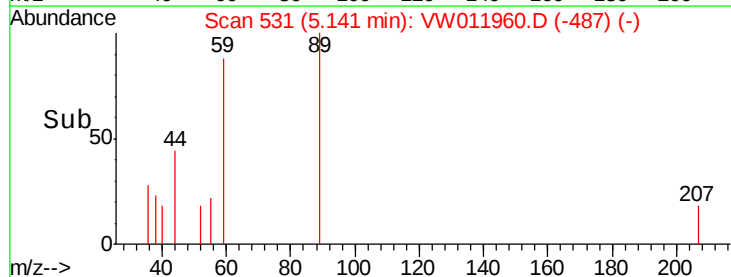
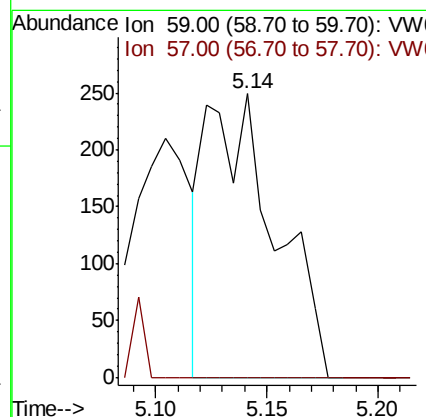
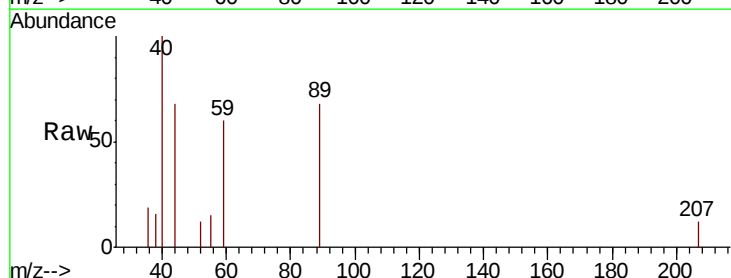
Acq: 16 Aug 2019 13:09

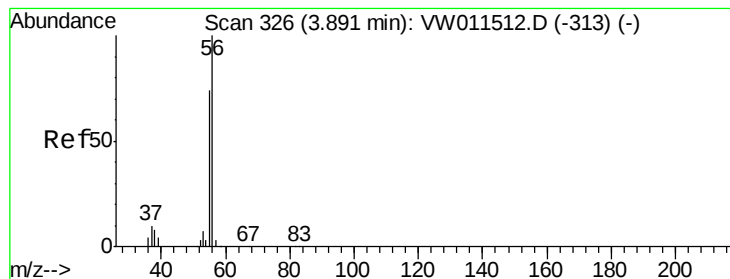
Tgt Ion: 59 Resp: 532

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#13

Acrolein

Concen: 1.993 ug/l

RT: 3.99 min Scan# 343

Delta R.T. 0.10 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

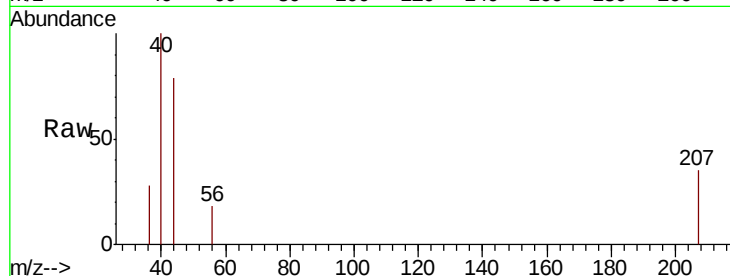
T8-A2-(4)RE

Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

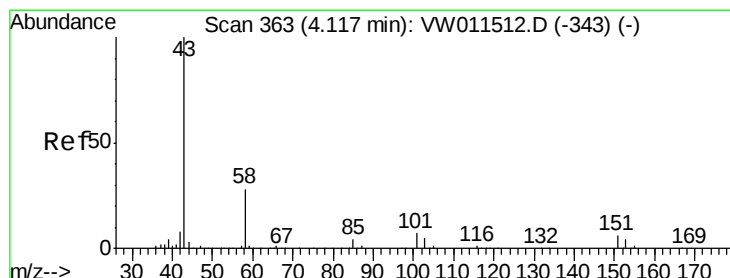
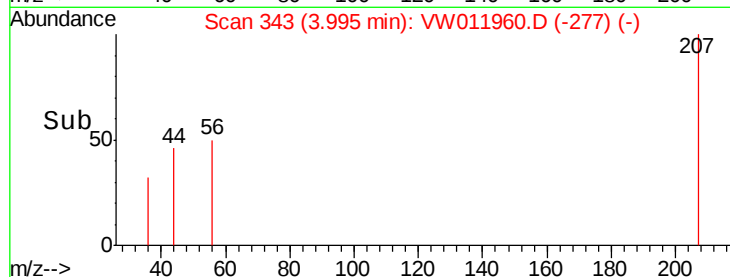
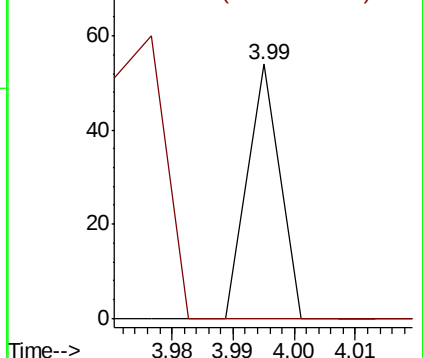
56 100

55 205.0 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 125.424 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011960.D

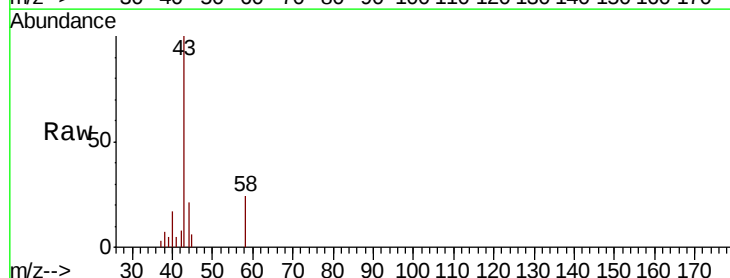
Acq: 16 Aug 2019 13:09

Tgt Ion: 43 Resp: 5580

Ion Ratio Lower Upper

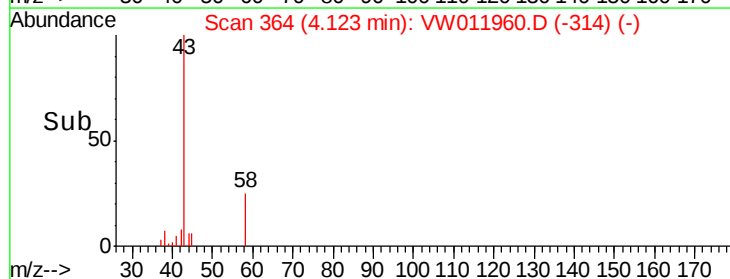
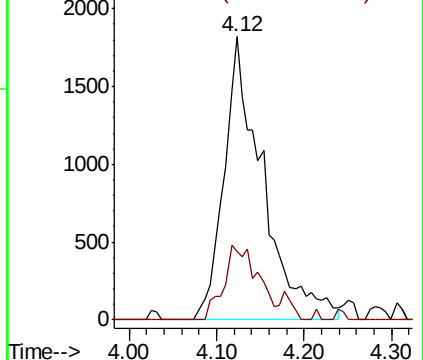
43 100

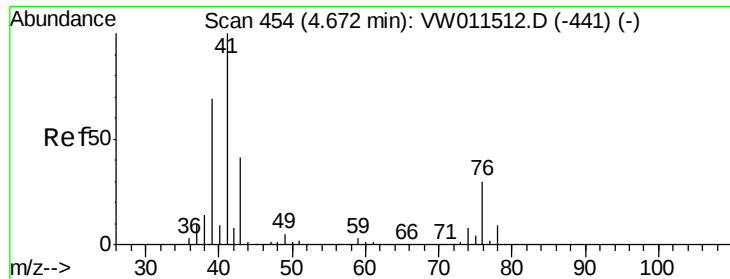
58 24.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

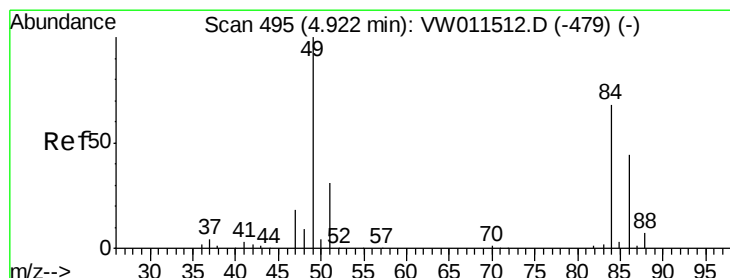
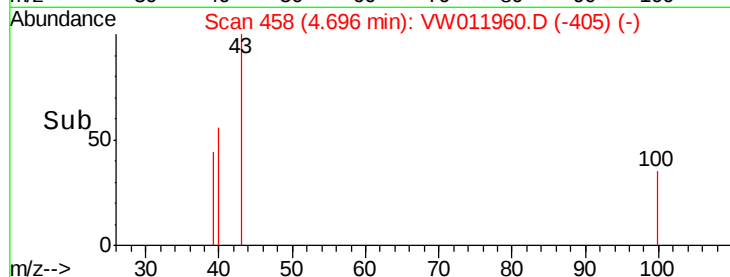
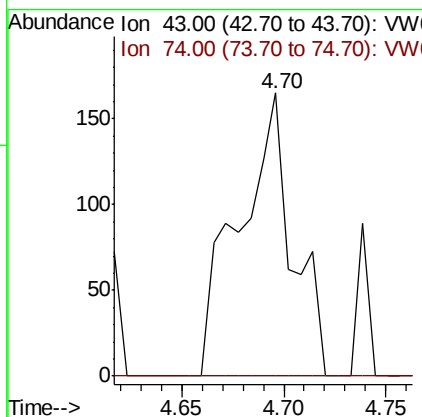
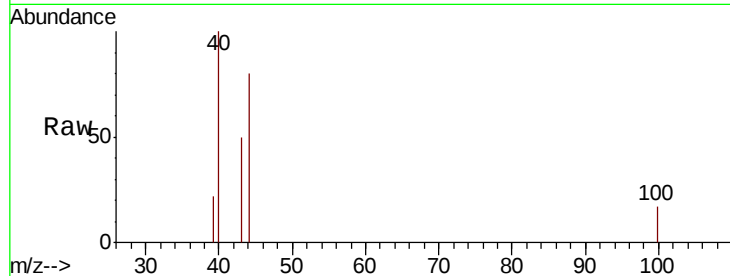




#18
Methyl Acetate
Concen: 3.032 ug/l
RT: 4.70 min Scan# 458
Delta R.T. 0.02 min
Lab File: VW011960.D
Acq: 16 Aug 2019 13:09

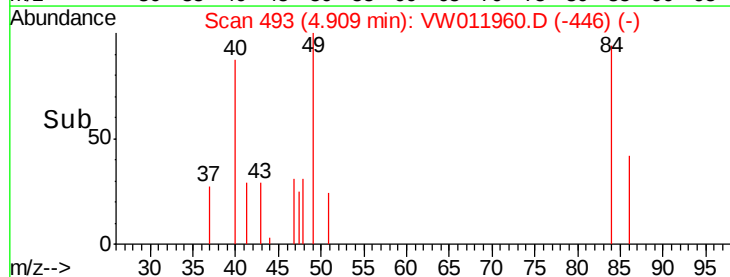
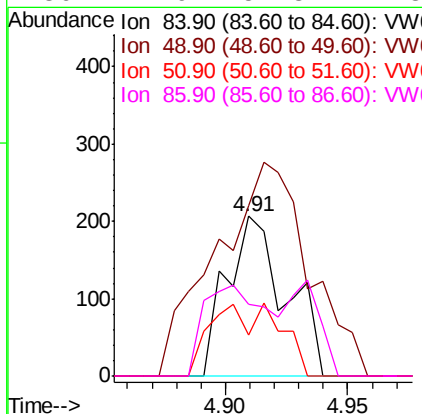
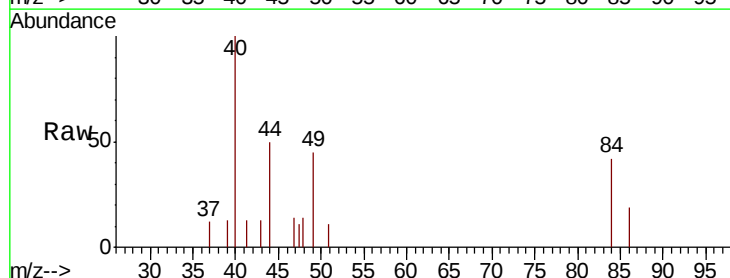
Instrument :
MSVOA_W
ClientSampleId :
T8-A2-(4)RE

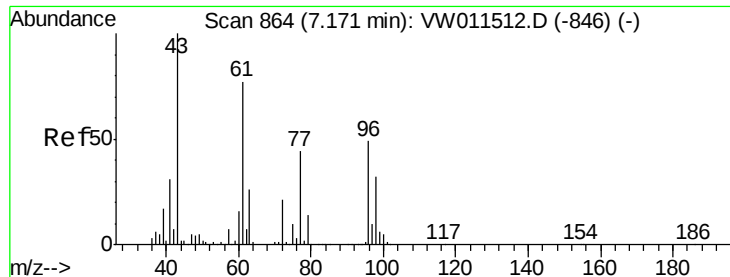
Tgt Ion: 43 Resp: 303
Ion Ratio Lower Upper
43 100
74 0.0 15.9 23.9#



#20
Methylene Chloride
Concen: 2.275 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011960.D
Acq: 16 Aug 2019 13:09

Tgt Ion: 84 Resp: 349
Ion Ratio Lower Upper
84 100
49 74.4 117.8 176.6#
51 25.6 37.0 55.4#
86 44.9 51.8 77.8#





#25

2-Butanone

Concen: 2.474 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampled :

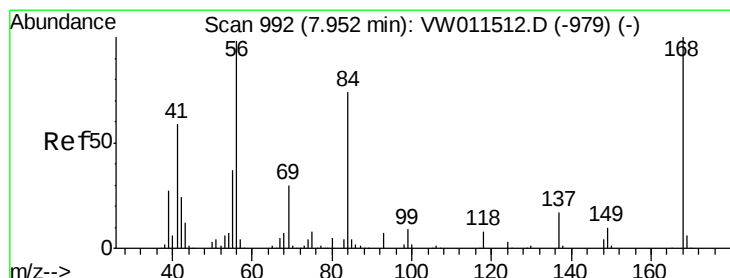
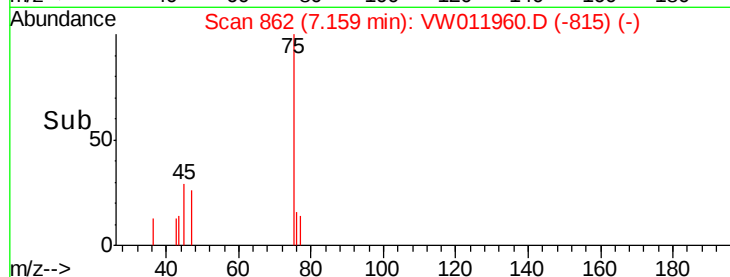
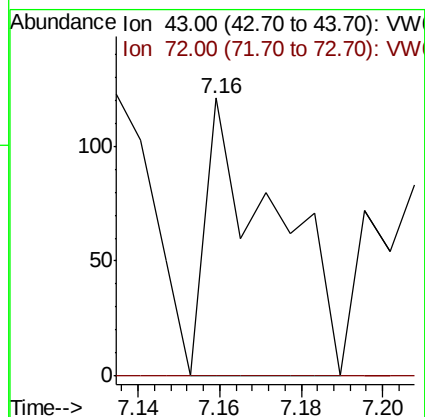
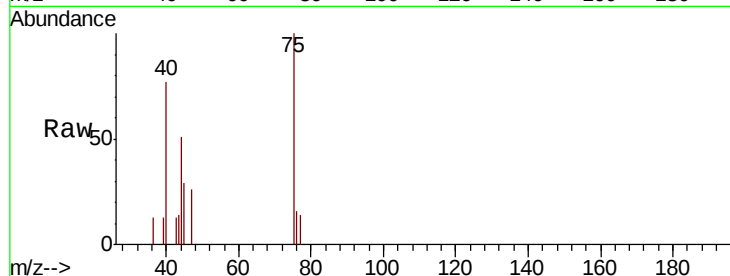
T8-A2-(4)RE

Tgt Ion: 43 Resp: 144

Ion Ratio Lower Upper

43 100

72 0.0 16.6 24.8#



#31

Cyclohexane

Concen: 1.587 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

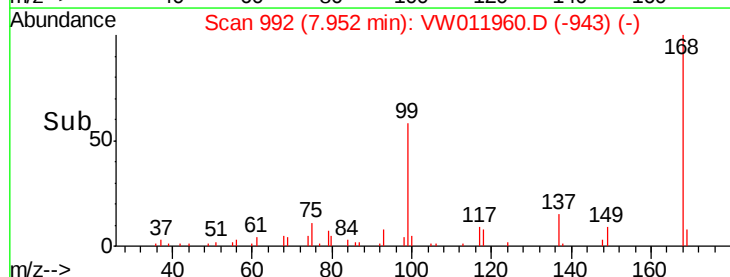
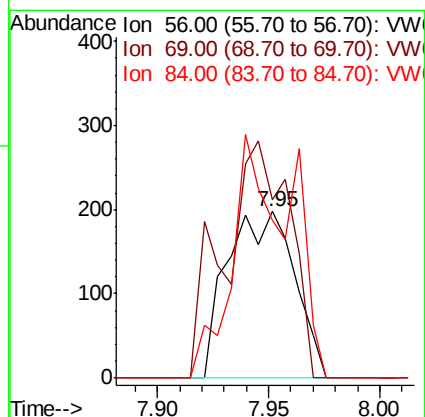
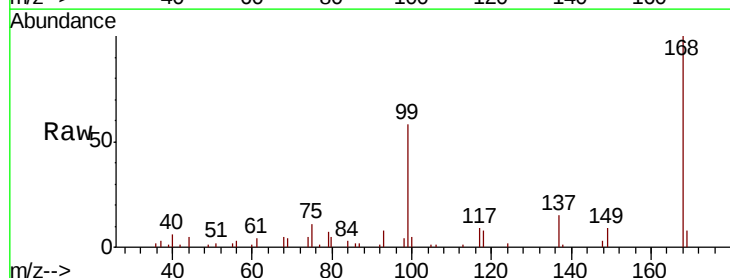
Tgt Ion: 56 Resp: 415

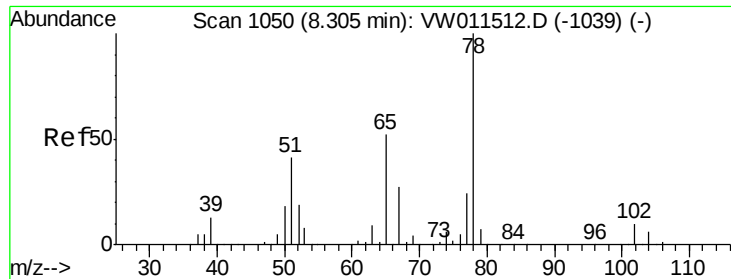
Ion Ratio Lower Upper

56 100

69 107.1 24.3 36.5#

84 94.4 60.4 90.6#

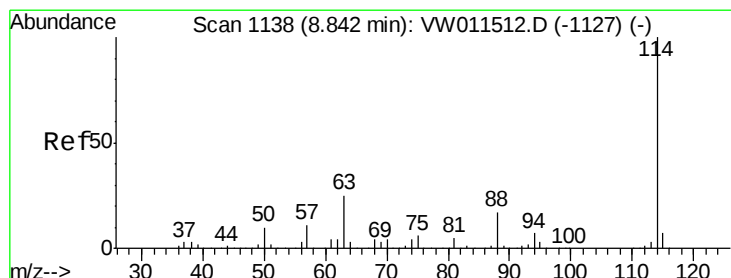
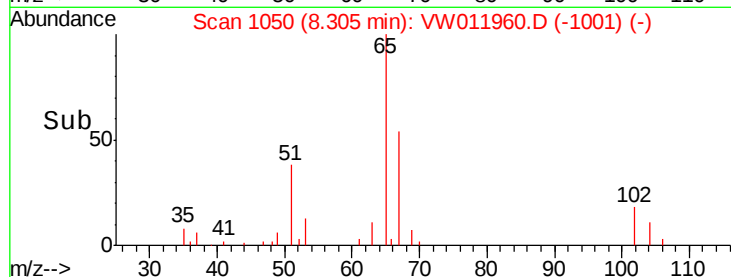
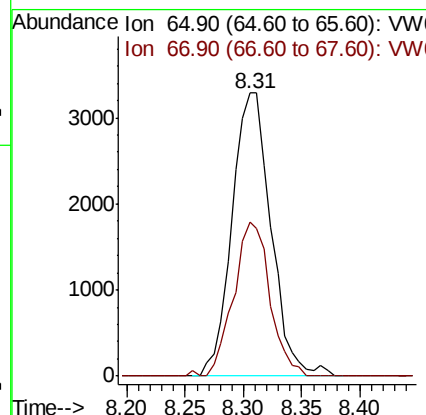
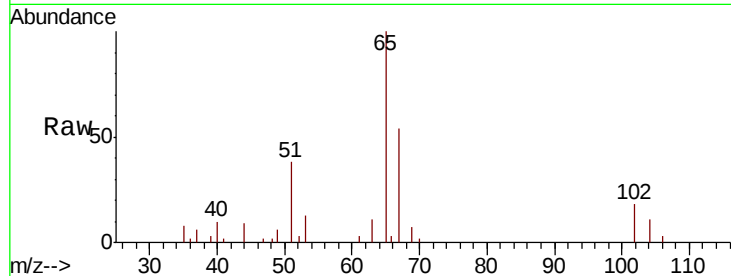




#33
 1,2-Dichloroethane-d4
 Concen: 54.712 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW011960.D
 Acq: 16 Aug 2019 13:09

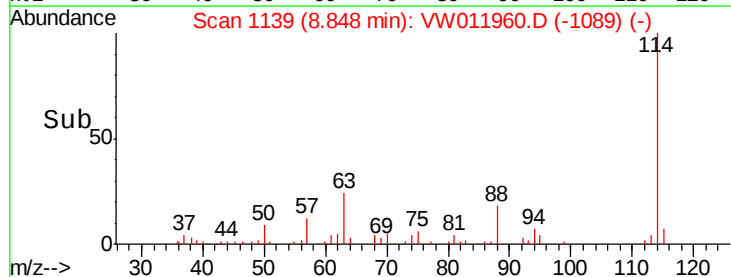
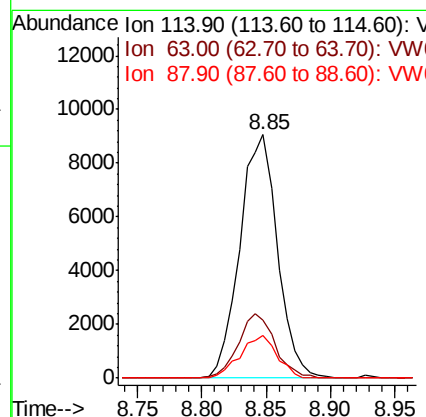
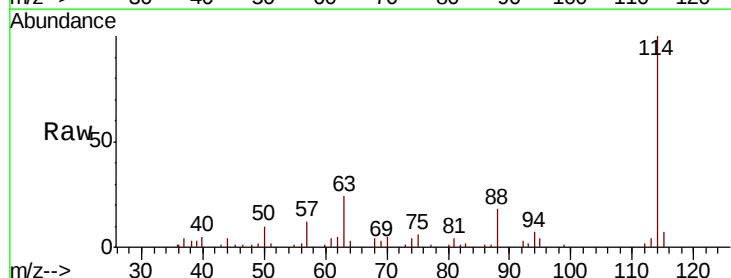
Instrument :
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 T8-A2-(4)RE

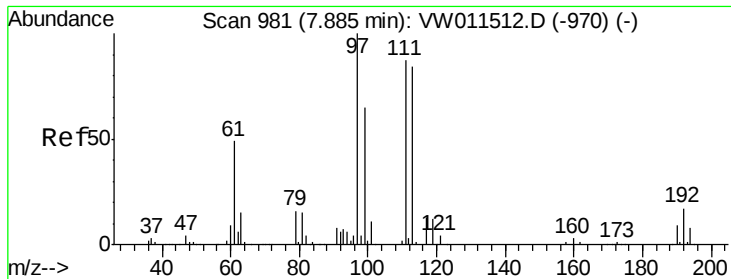
Tgt Ion: 65 Resp: 7652
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW011960.D
 Acq: 16 Aug 2019 13:09

Tgt Ion: 114 Resp: 18334
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 49.2
 88 17.5 0.0 33.8

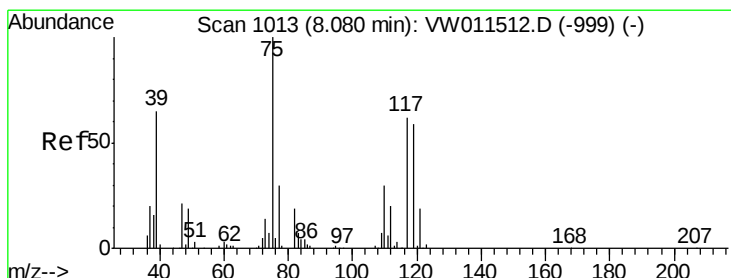
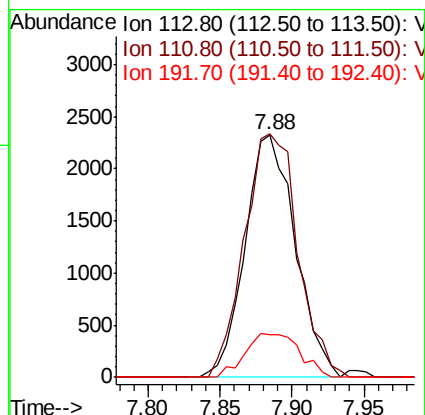
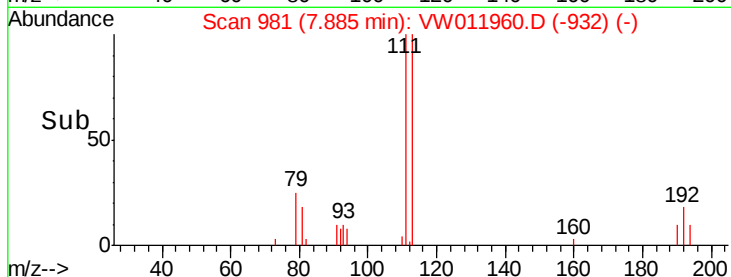
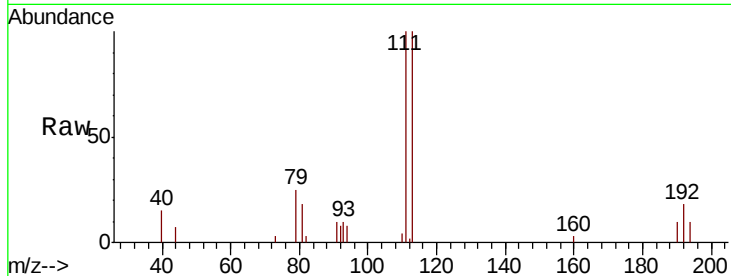




#35
 Dibromofluoromethane
 Concen: 54.649 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW011960.D
 Acq: 16 Aug 2019 13:09

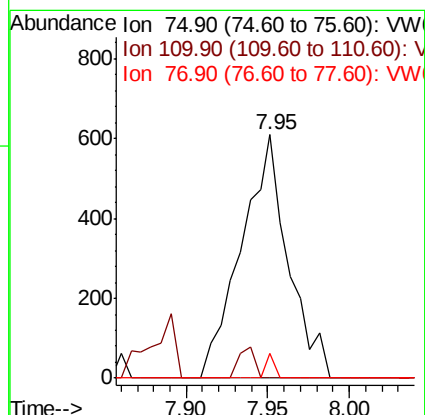
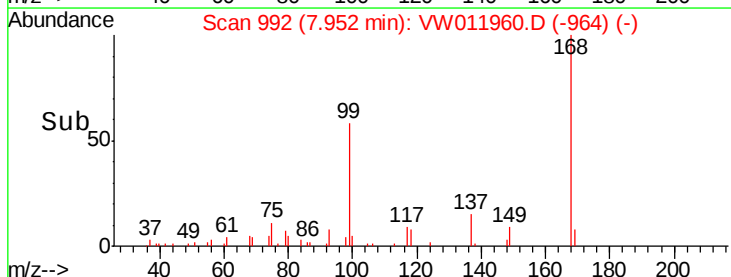
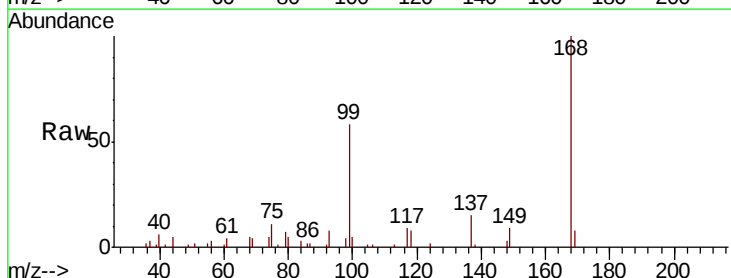
Instrument :
 MSVOA_W
 ClientSampleId :
 T8-A2-(4)RE

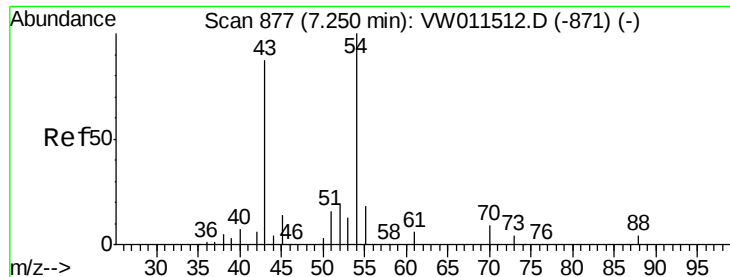
Tgt Ion:113 Resp: 5621
 Ion Ratio Lower Upper
 113 100
 111 106.6 82.7 124.1
 192 19.5 16.1 24.1



#36
 1,1-Dichloropropene
 Concen: 6.405 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW011960.D
 Acq: 16 Aug 2019 13:09

Tgt Ion: 75 Resp: 1221
 Ion Ratio Lower Upper
 75 100
 110 4.2 15.6 46.8#
 77 1.9 24.3 36.5#

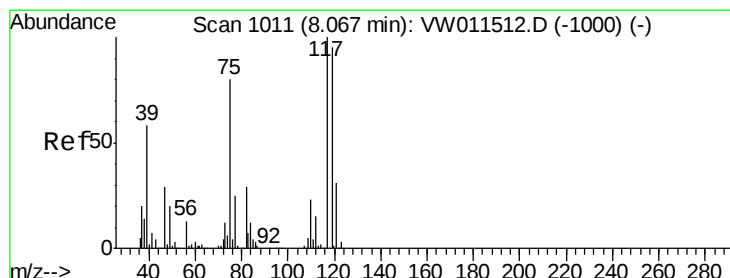
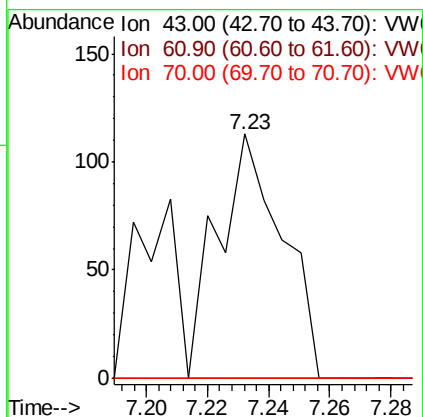
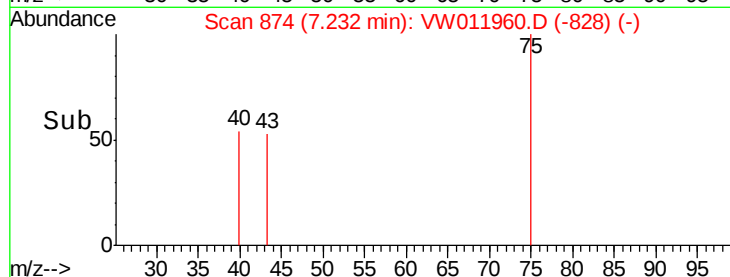
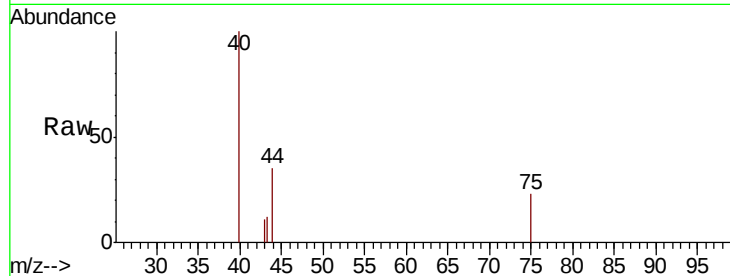




#37
 Ethyl Acetate
 Concen: 1.504 ug/l
 RT: 7.23 min Scan# 874
 Delta R.T. -0.02 min
 Lab File: VW011960.D
 Acq: 16 Aug 2019 13:09

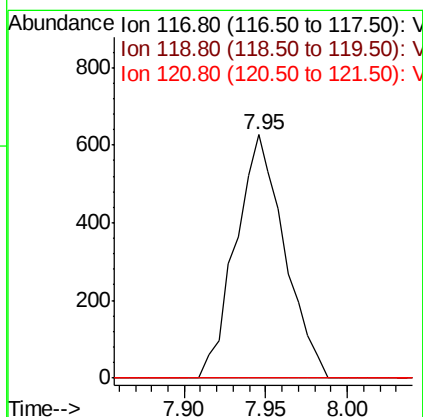
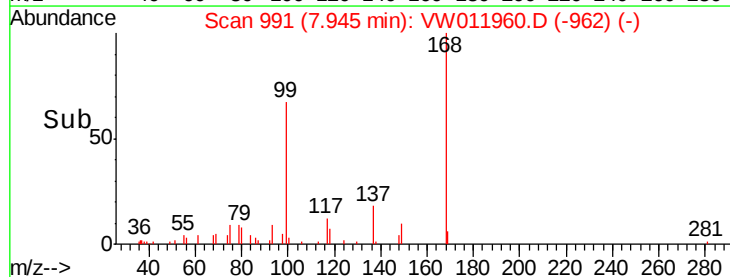
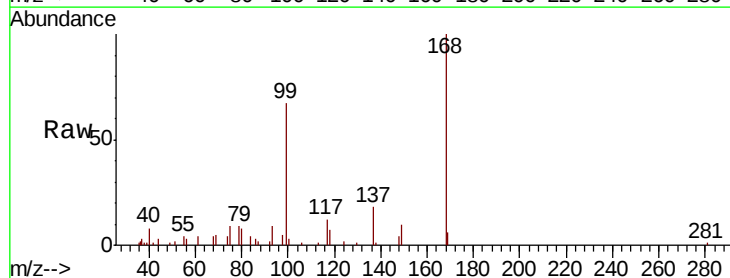
Instrument :
 MSVOA_W
 ClientSampled :
 T8-A2-(4)RE

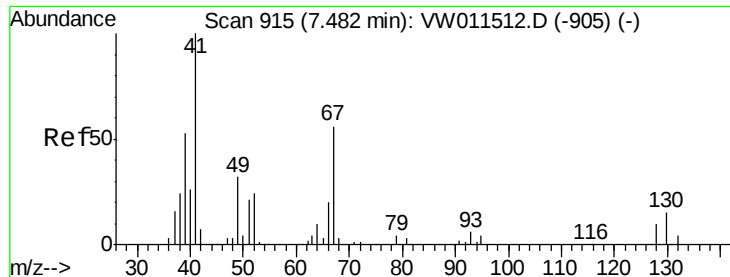
Tgt Ion: 43 Resp: 165
 Ion Ratio Lower Upper
 43 100
 61 0.0 8.8 13.2#
 70 0.0 7.1 10.7#



#38
 Carbon Tetrachloride
 Concen: 7.978 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW011960.D
 Acq: 16 Aug 2019 13:09

Tgt Ion: 117 Resp: 1302
 Ion Ratio Lower Upper
 117 100
 119 0.0 75.8 113.6#
 121 0.0 24.7 37.1#





#41

Methacrylonitrile

Concen: 1.083 ug/l

RT: 7.50 min Scan# 918

Delta R.T. 0.02 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

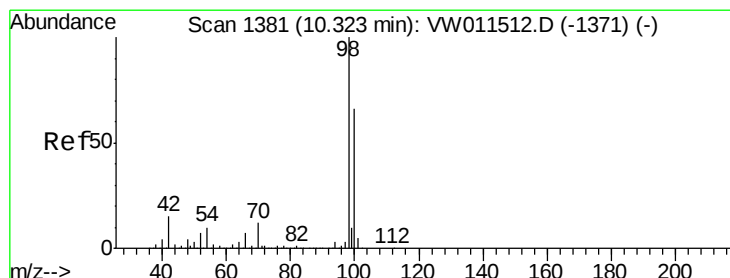
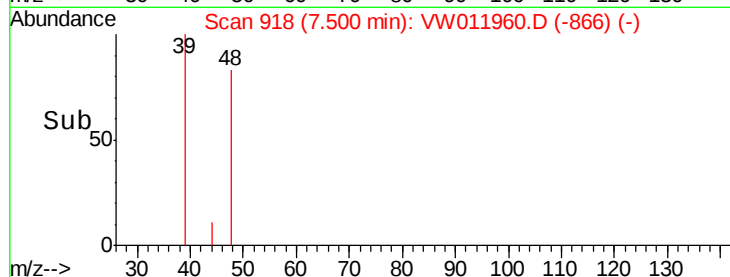
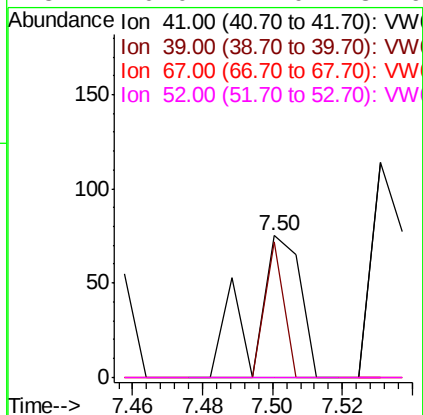
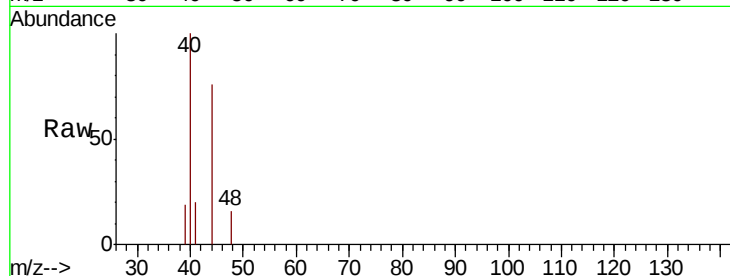
Instrument :

MSVOA_W

ClientSampled :

T8-A2-(4)RE

Tgt Ion:	41	Resp:	71
Ion	Ratio	Lower	Upper
41	100		
39	36.6	43.0	64.4#
67	0.0	47.5	71.3#
52	0.0	21.0	31.6#



#50

Toluene-d8

Concen: 52.265 ug/l

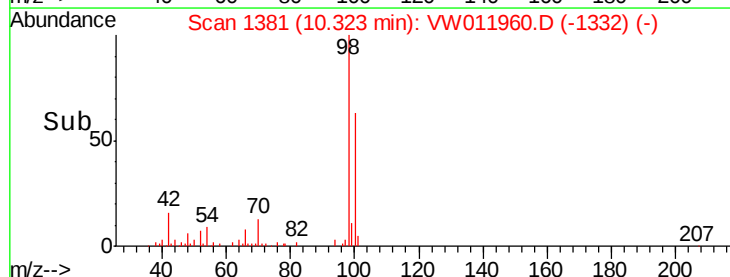
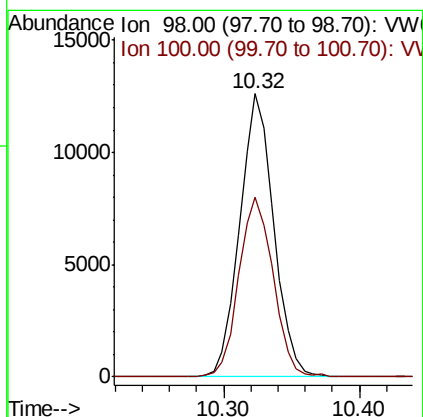
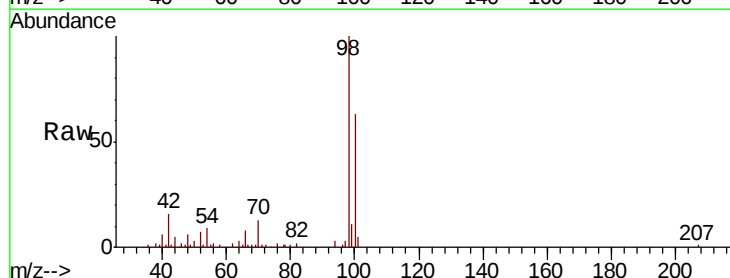
RT: 10.32 min Scan# 1381

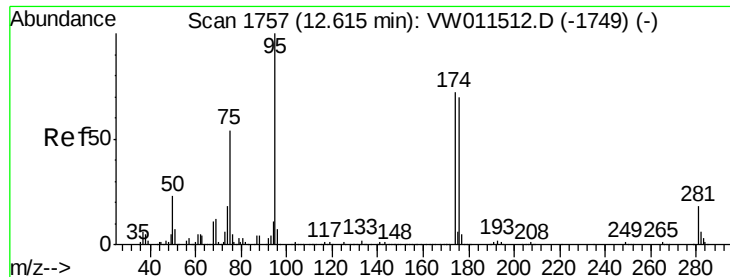
Delta R.T. -0.00 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

Tgt Ion:	98	Resp:	22010
Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.7	79.1





#62

4-Bromofluorobenzene

Concen: 40.449 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

T8-A2-(4)RE

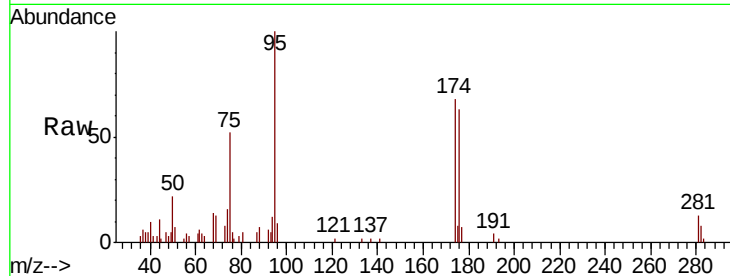
Tgt Ion: 95 Resp: 6073

Ion Ratio Lower Upper

95 100

174 73.0 0.0 150.2

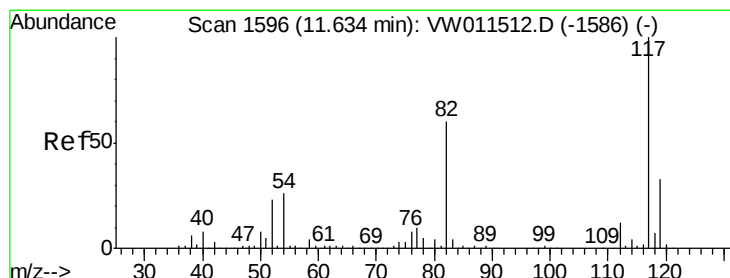
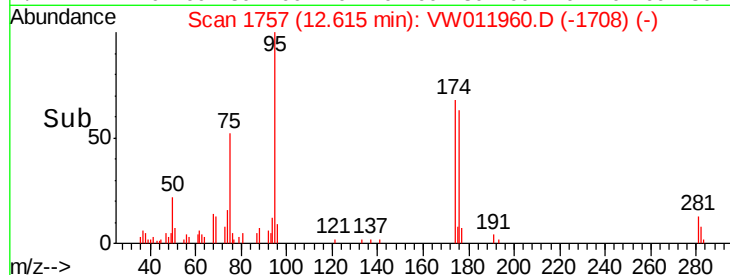
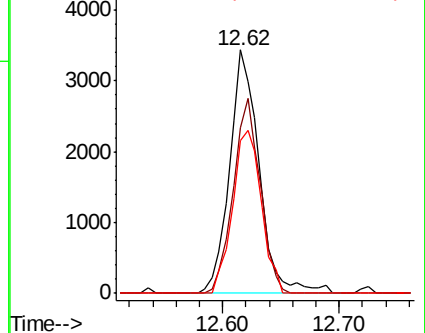
176 65.1 0.0 144.4



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: VW011960.D

Acq: 16 Aug 2019 13:09

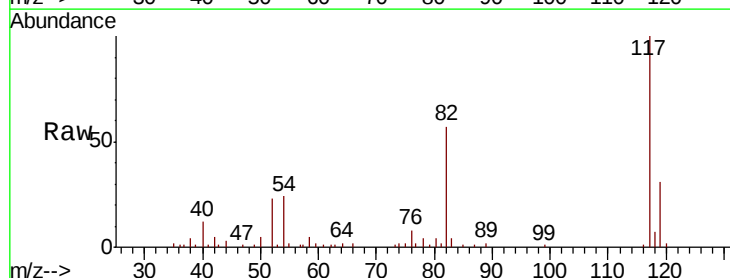
Tgt Ion: 117 Resp: 14249

Ion Ratio Lower Upper

117 100

82 57.1 47.9 71.9

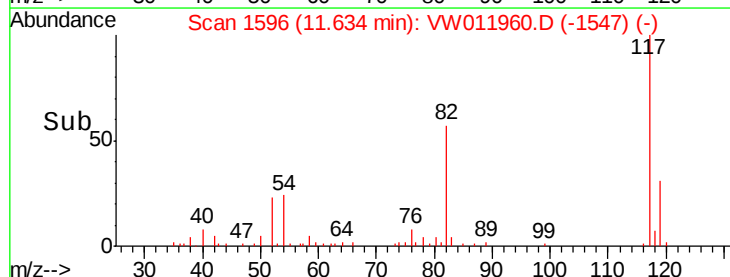
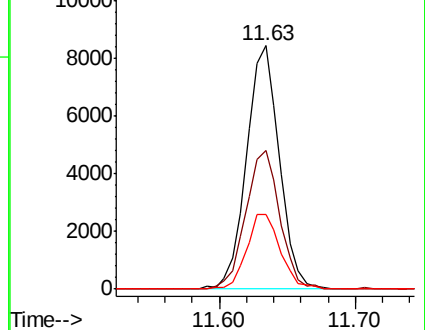
119 30.9 26.2 39.2

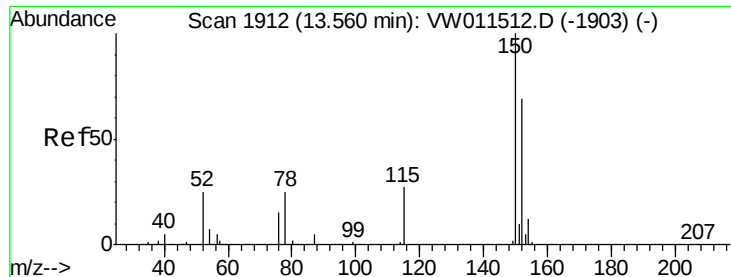


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW011960.D

Acq: 16 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

T8-A2-(4)RE

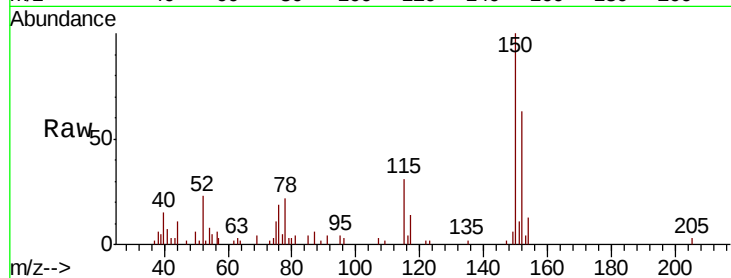
Tgt Ion:152 Resp: 3477

Ion Ratio Lower Upper

152 100

115 64.6 30.5 91.5

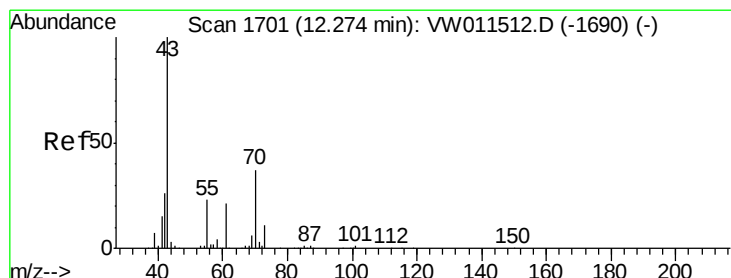
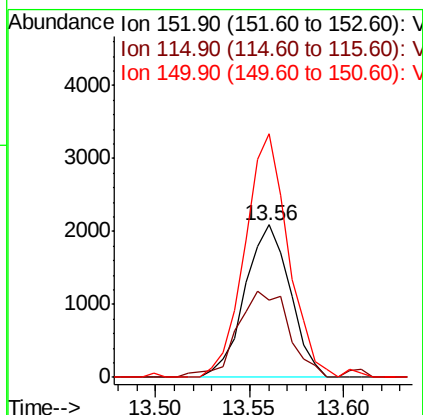
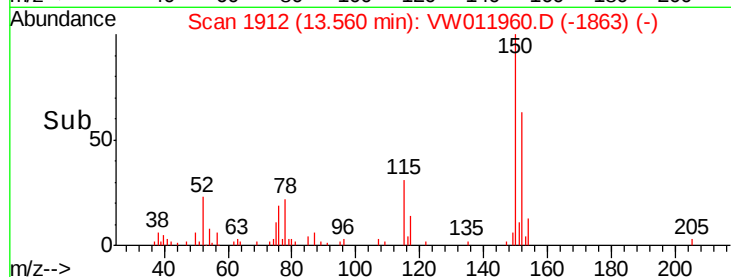
150 153.1 0.0 352.6



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



#74

N-ethyl acetate

Concen: 1.170 ug/l

RT: 12.28 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

Tgt Ion: 43 Resp: 95

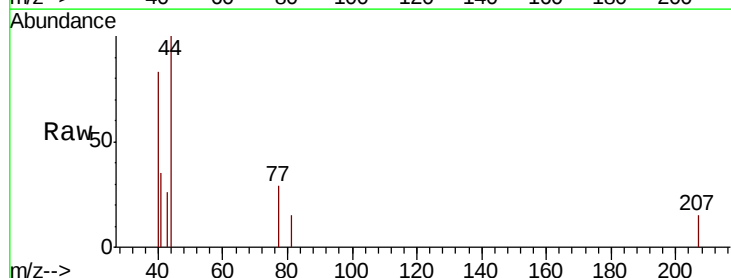
Ion Ratio Lower Upper

43 100

70 0.0 28.6 43.0#

55 53.7 17.8 26.8#

61 0.0 17.0 25.6#

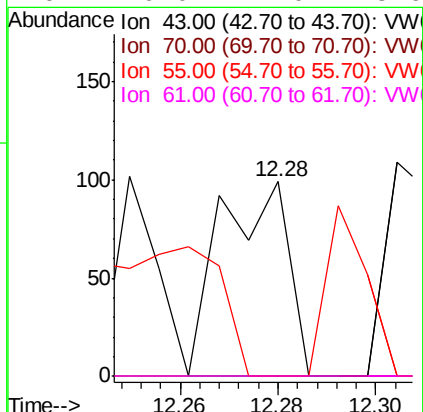
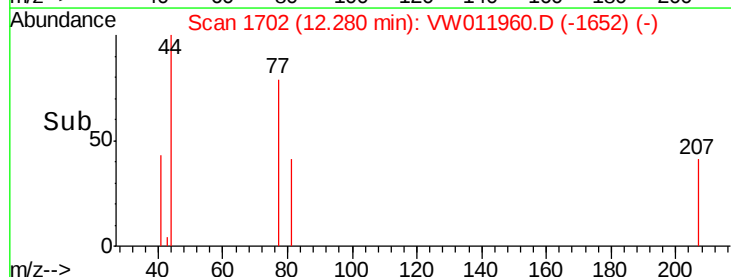


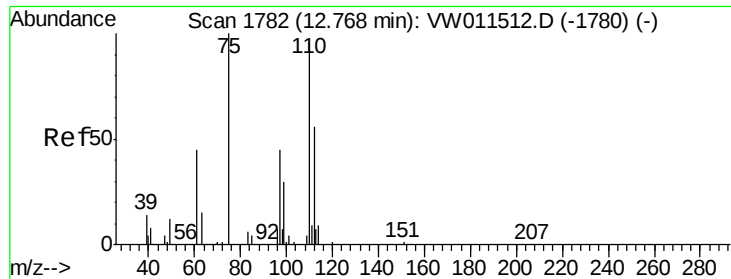
Abundance Ion 43.00 (42.70 to 43.70): VW

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





#76

1,2,3-Trichloropropane

Concen: 81.950 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

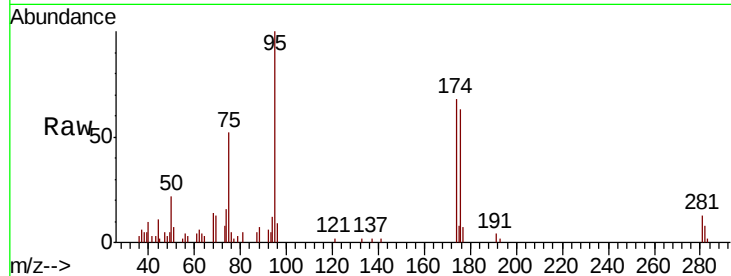
T8-A2-(4)RE

Tgt Ion: 75 Resp: 3015

Ion Ratio Lower Upper

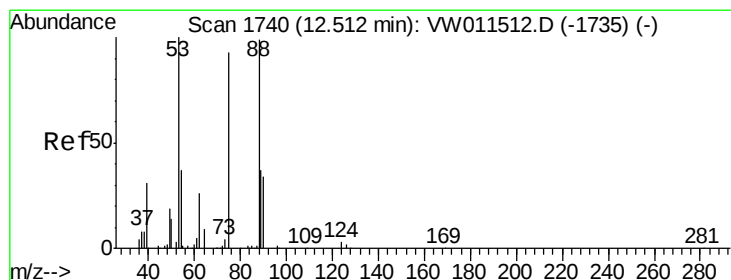
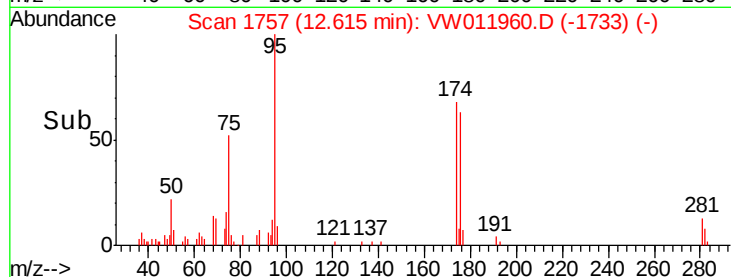
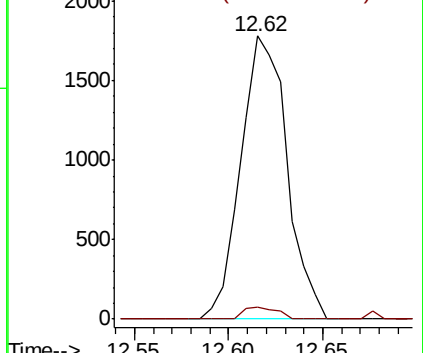
75 100

77 3.1 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: 188.867 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011960.D

Acq: 16 Aug 2019 13:09

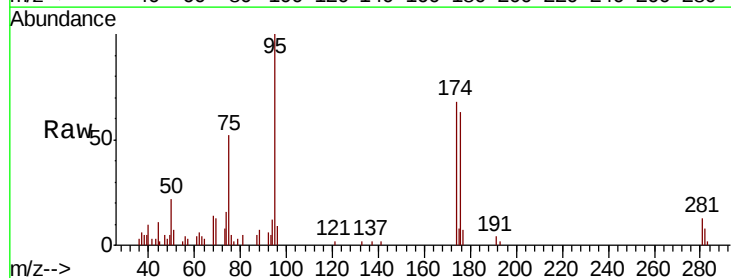
Tgt Ion: 75 Resp: 3015

Ion Ratio Lower Upper

75 100

53 0.0 88.0 132.0#

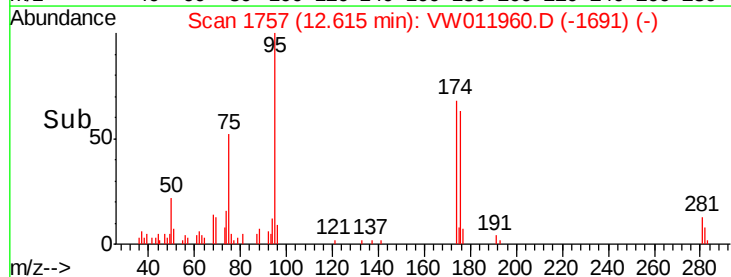
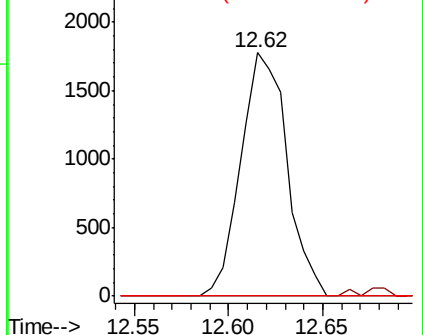
89 0.0 35.3 52.9#

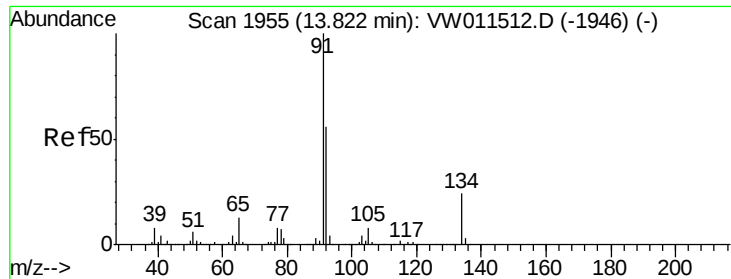


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

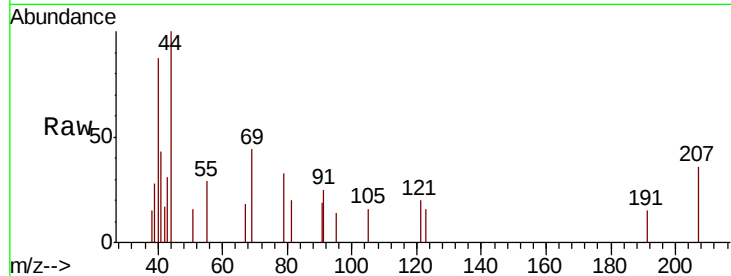




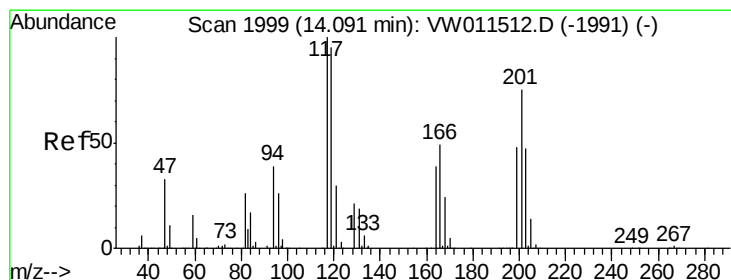
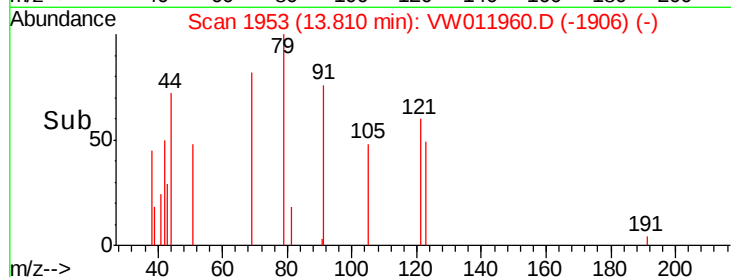
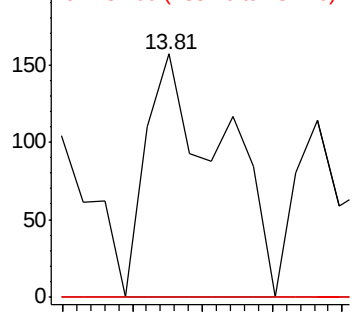
#89
n-Butylbenzene
Concen: 1.009 ug/l
RT: 13.81 min Scan# 1953
Delta R.T. -0.01 min
Lab File: VW011960.D
Acq: 16 Aug 2019 13:09

Instrument :
MSVOA_W
ClientSampled :
T8-A2-(4)RE

Tgt Ion: 91 Resp: 237
Ion Ratio Lower Upper
91 100
92 0.0 27.5 82.4#
134 0.0 12.2 36.6#

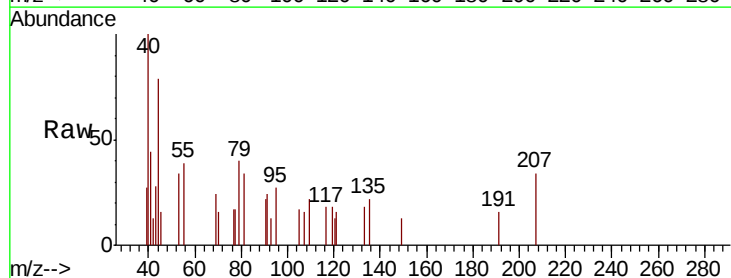


Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 92.00 (91.70 to 92.70): VW
Ion 134.00 (133.70 to 134.70): V

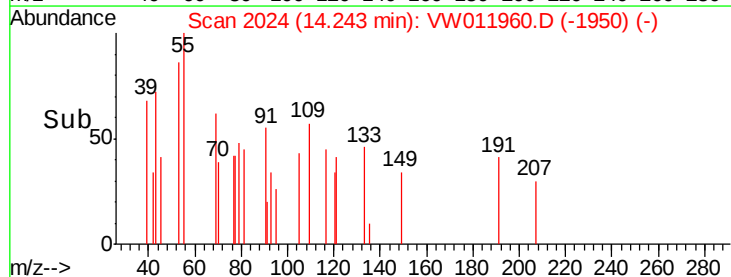
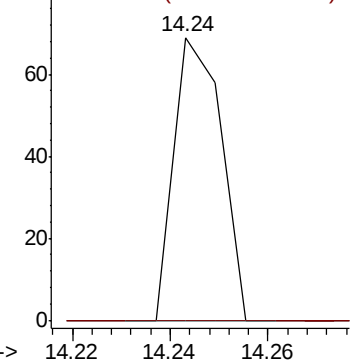


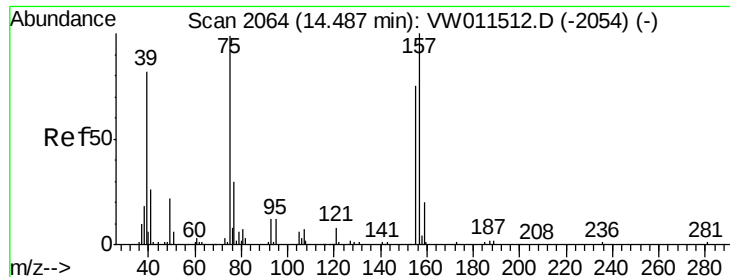
#90
Hexachloroethane
Concen: 1.105 ug/l
RT: 14.24 min Scan# 2024
Delta R.T. 0.15 min
Lab File: VW011960.D
Acq: 16 Aug 2019 13:09

Tgt Ion: 117 Resp: 46
Ion Ratio Lower Upper
117 100
201 0.0 39.4 118.2#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

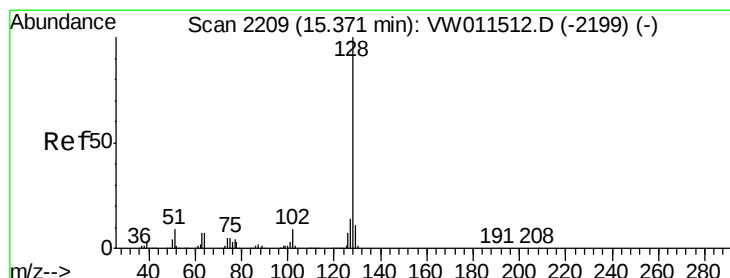
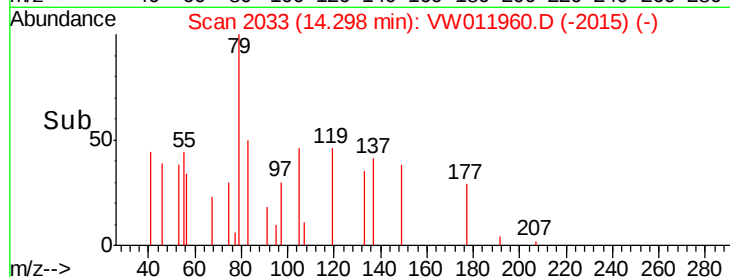
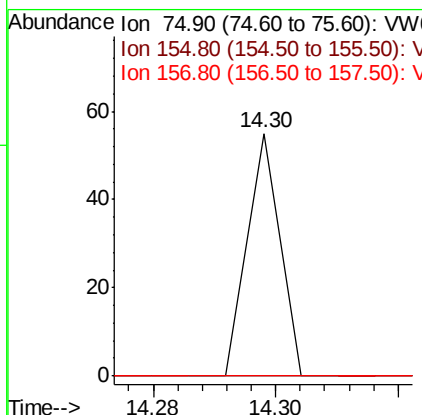
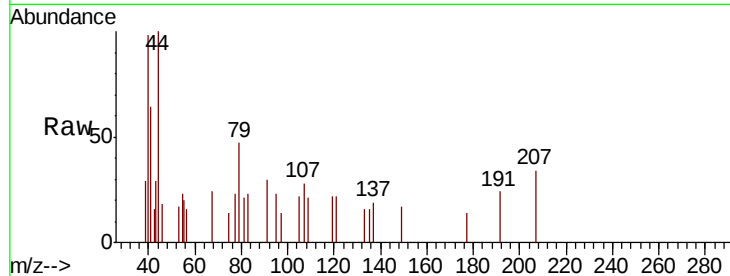




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.404 ug/l
 RT: 14.30 min Scan# 2033
 Delta R.T. -0.19 min
 Lab File: VW011960.D
 Acq: 16 Aug 2019 13:09

Instrument :
 MSVOA_W
 ClientSampleId :
 T8-A2-(4)RE

Tgt Ion: 75 Resp: 20
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.2 114.6#
 157 0.0 48.9 146.7#



#95
 Naphthalene
 Concen: 3.218 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW011960.D
 Acq: 16 Aug 2019 13:09

Tgt Ion: 128 Resp: 165
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.6 13.0#

