

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090119\
 Data File : VW012456.D
 Acq On : 01 Sep 2019 18:39
 Operator : SY/VA
 Sample : K4516-08
 Misc : 6.38G/5ML/MSVOA_W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T1-S-E-(0)

Quant Time: Sep 02 07:20:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	8167	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	10876	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	6329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	865	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	4814	49.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.18%	
35) Dibromofluoromethane	7.88	113	3866	59.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.10%	
50) Toluene-d8	10.32	98	12418	47.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.36%	
62) 4-Bromofluorobenzene	12.62	95	1334	14.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	28.76%	

Target Compounds

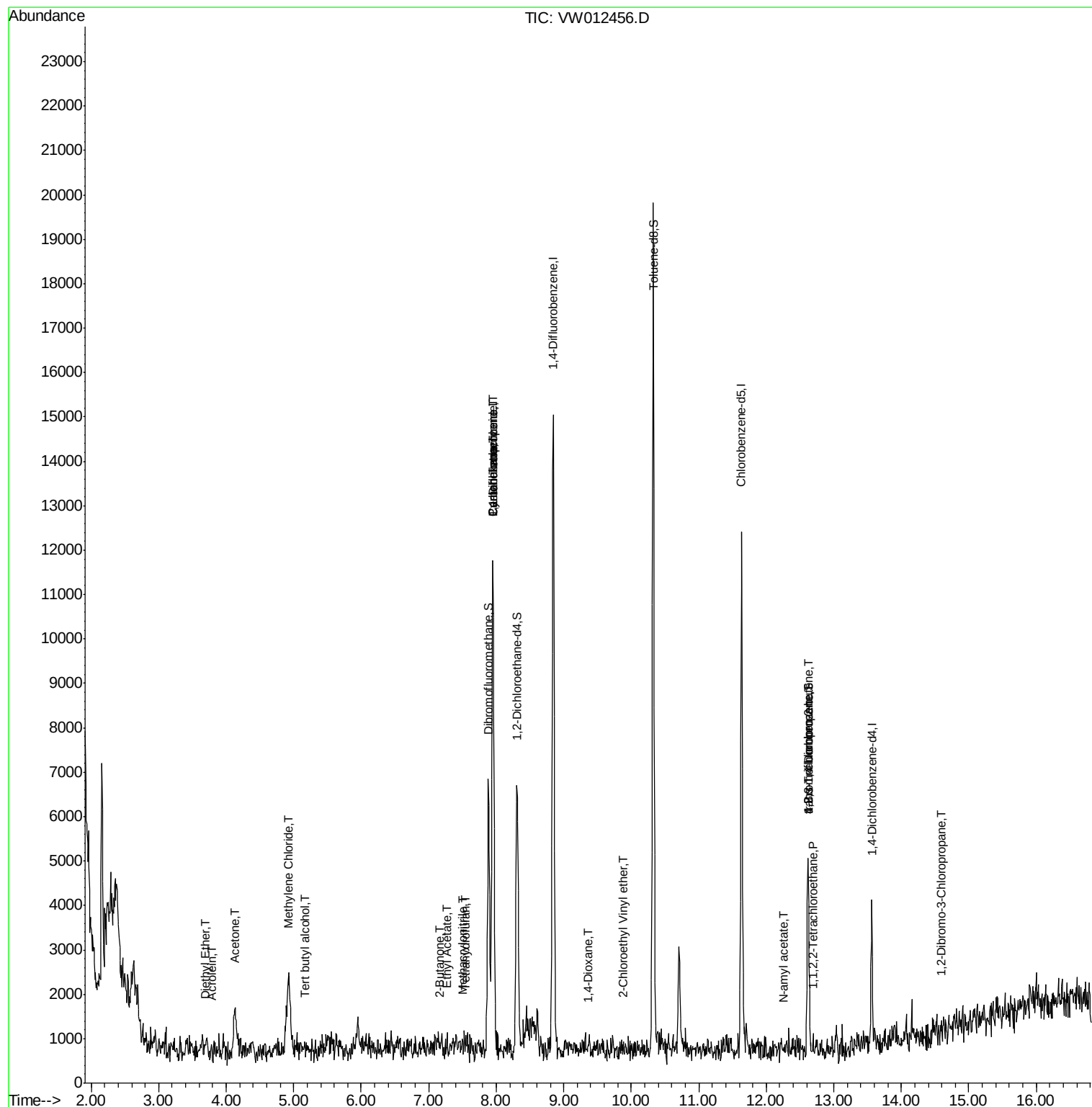
						Qvalue
8) Diethyl Ether	3.69	74	76	1.672	ug/l	59
11) Tert butyl alcohol	5.16	59	20	3.423	ug/l #	71
13) Acrolein	3.78	56	72	13.092	ug/l #	15
16) Acetone	4.12	43	2155	86.835	ug/l #	81
20) Methylene Chloride	4.92	84	1147	12.226	ug/l #	66
25) 2-Butanone	7.17	43	54	1.601	ug/l #	56
29) Tetrahydrofuran	7.54	42	90	4.448	ug/l #	42
31) Cyclohexane	7.95	56	360	2.059	ug/l #	50
36) 1,1-Dichloropropene	7.95	75	891	7.928	ug/l #	44
37) Ethyl Acetate	7.27	43	94	1.526	ug/l #	73
38) Carbon Tetrachloride	7.95	117	834	8.573	ug/l #	12
41) Methacrylonitrile	7.49	41	89	2.459	ug/l #	52
49) 1,4-Dioxane	9.35	88	44	78.212	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.89	63	41	1.056	ug/l #	50
74) N-amyl acetate	12.26	43	63	3.217	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	12.69	83	20	1.683	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	715	84.872	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	715	186.084	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.60	75	49	24.461	ug/l #	5

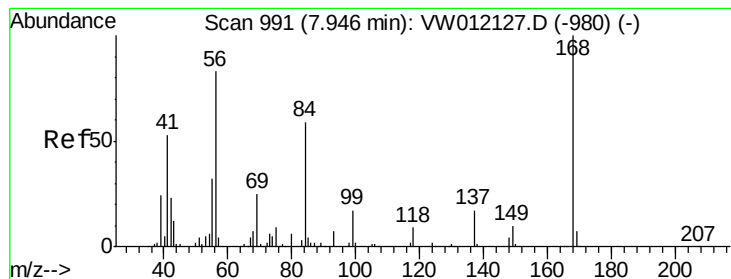
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012456.D

Acq: 01 Sep 2019 18:39

Instrument :

MSVOA_W

ClientSampled :

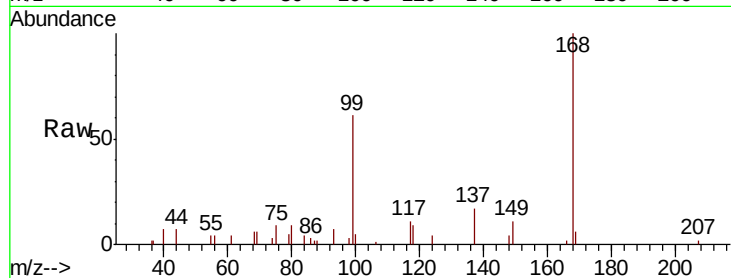
T1-S-E-(0)

Tgt Ion:168 Resp: 8167

Ion Ratio Lower Upper

168 100

99 61.3 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

4000

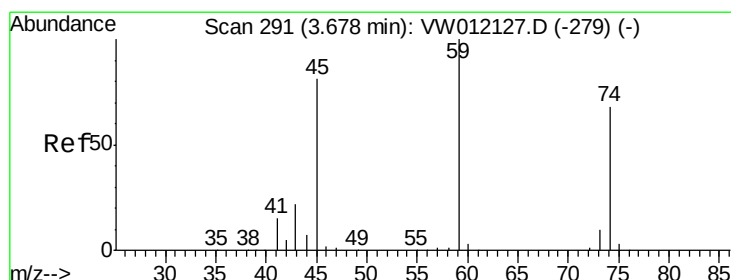
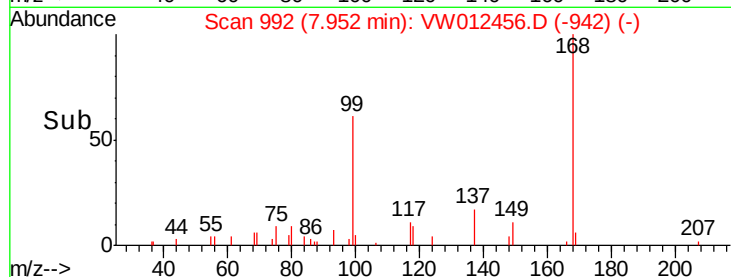
3000

2000

1000

0

Time--> 7.85 7.90 7.95 8.00 8.05



#8

Diethyl Ether

Concen: 1.672 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW012456.D

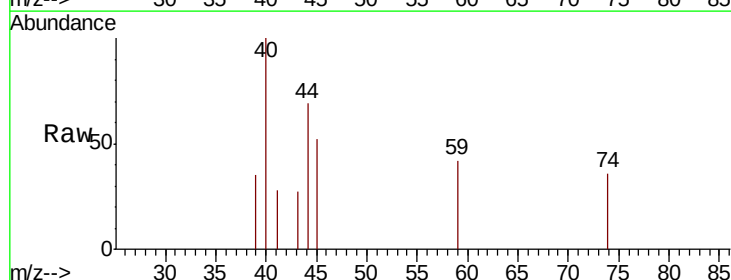
Acq: 01 Sep 2019 18:39

Tgt Ion: 74 Resp: 76

Ion Ratio Lower Upper

74 100

45 163.2 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

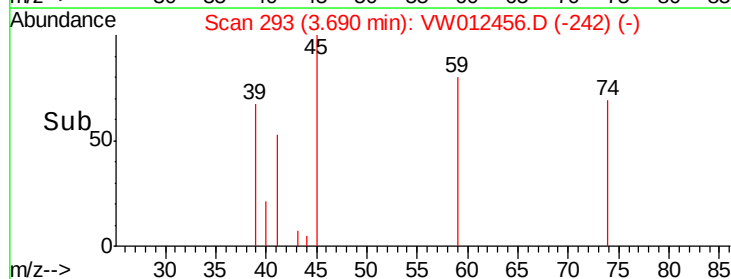
3.69

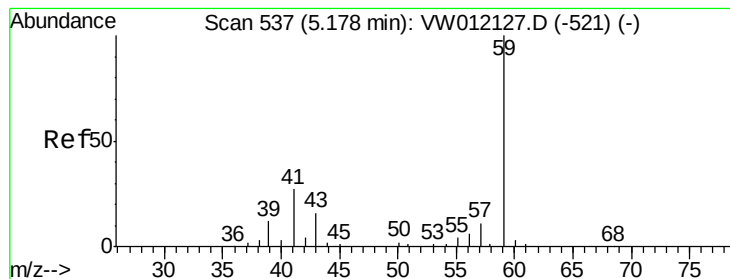
100

50

0

Time--> 3.66 3.68 3.70 3.72





#11

Tert butyl alcohol

Concen: 3.423 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.02 min

Lab File: VW012456.D

Acq: 01 Sep 2019 18:39

Instrument :

MSVOA_W

ClientSampleId :

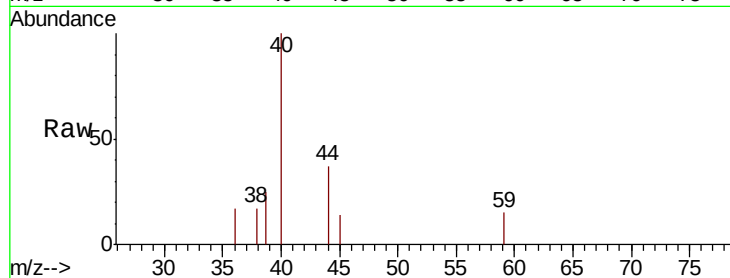
T1-S-E(0)

Tgt Ion: 59 Resp: 20

Ion Ratio Lower Upper

59 100

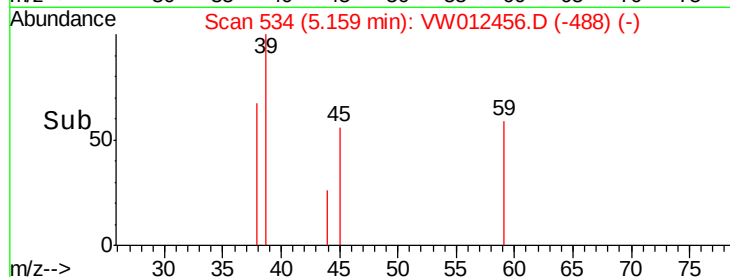
57 0.0 9.0 13.4#



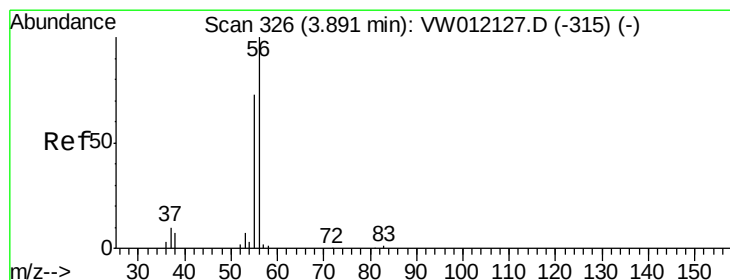
Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.16



Time-->



#13

Acrolein

Concen: 13.092 ug/l

RT: 3.78 min Scan# 307

Delta R.T. -0.12 min

Lab File: VW012456.D

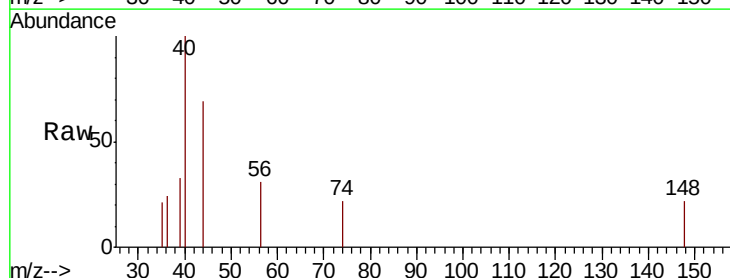
Acq: 01 Sep 2019 18:39

Tgt Ion: 56 Resp: 72

Ion Ratio Lower Upper

56 100

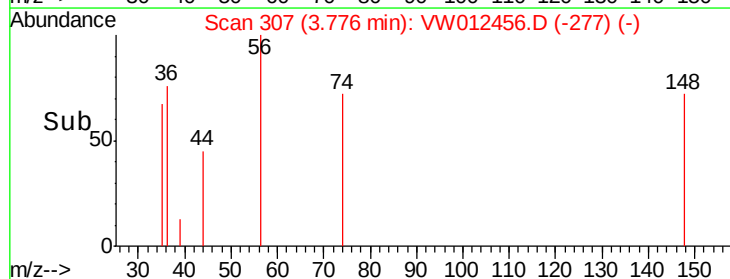
55 0.0 55.8 83.8#



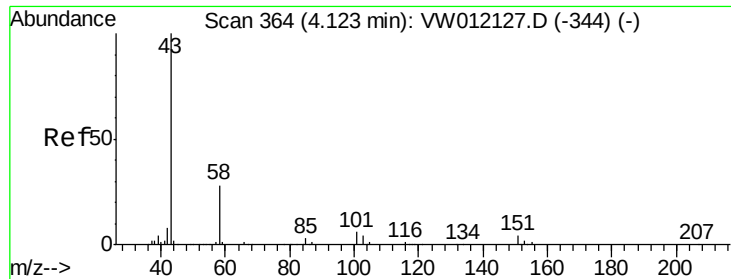
Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.78



Time-->



#16

Acetone

Concen: 86.835 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW012456.D

Acq: 01 Sep 2019 18:39

Instrument :

MSVOA_W

ClientSampleId :

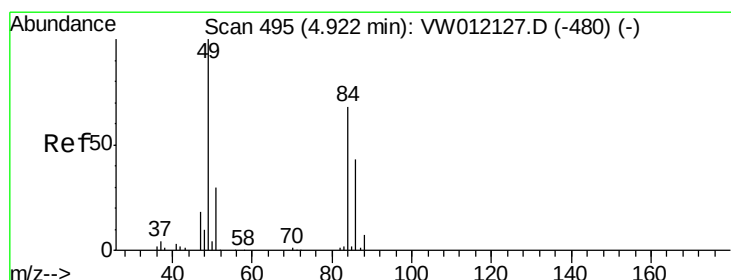
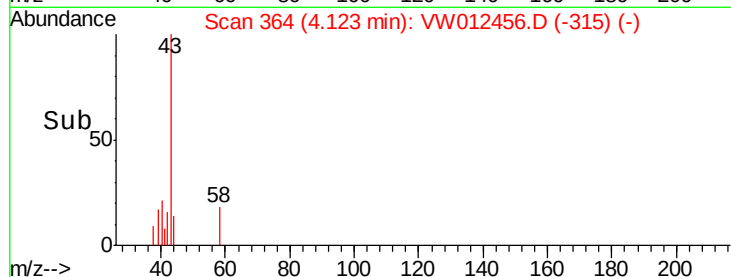
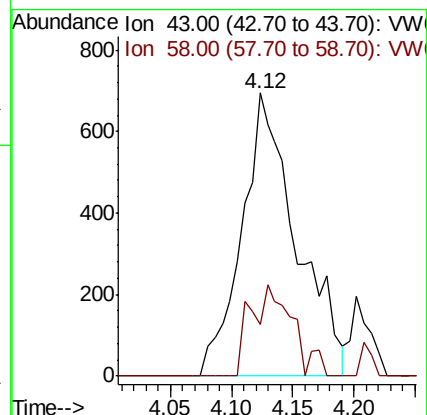
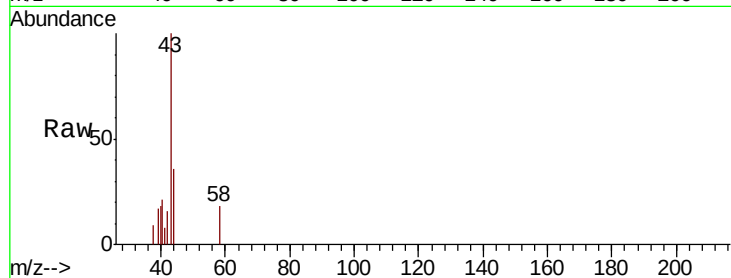
T1-S-E-(0)

Tgt Ion: 43 Resp: 2155

Ion Ratio Lower Upper

43 100

58 18.2 22.4 33.6#



#20

Methylene Chloride

Concen: 12.226 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW012456.D

Acq: 01 Sep 2019 18:39

Tgt Ion: 84 Resp: 1147

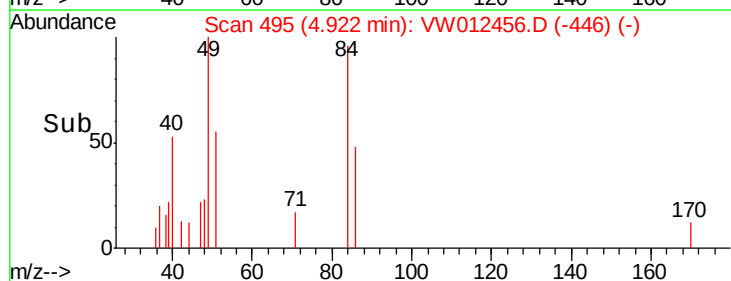
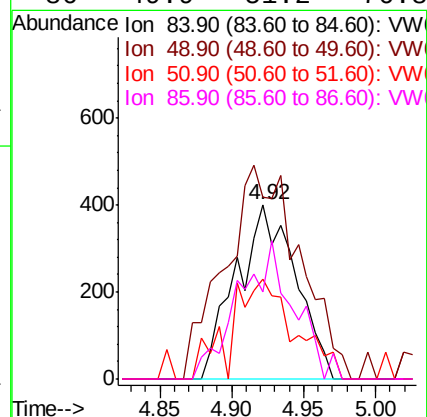
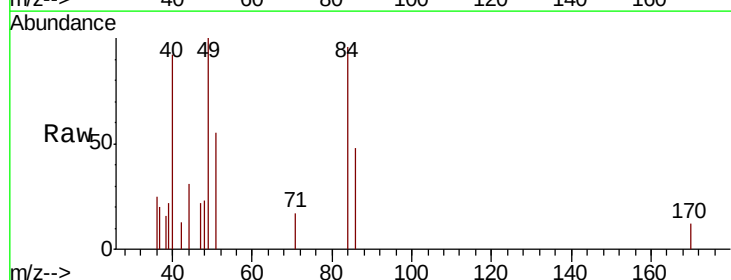
Ion Ratio Lower Upper

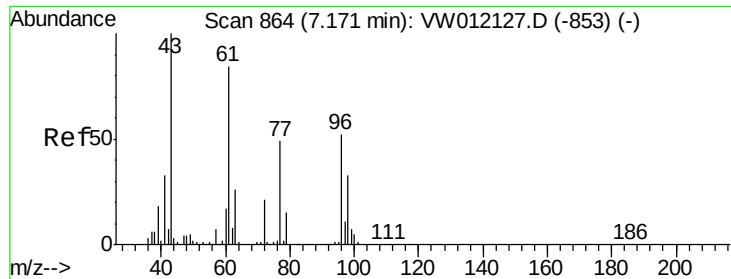
84 100

49 90.5 117.8 176.8#

51 57.4 35.6 53.4#

86 49.9 51.2 76.8#

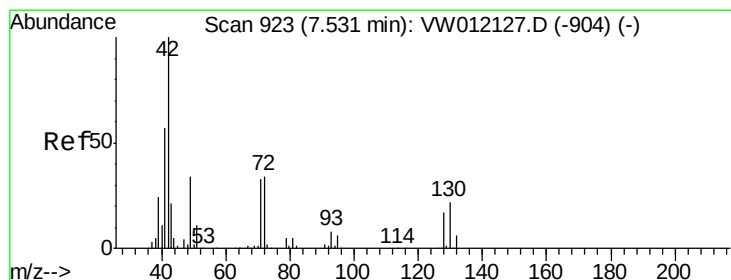
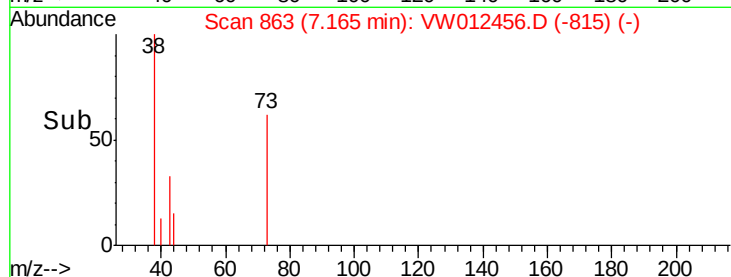
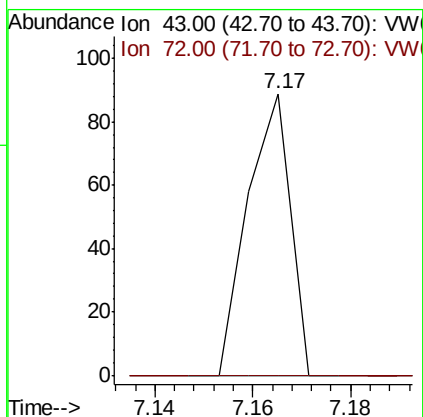
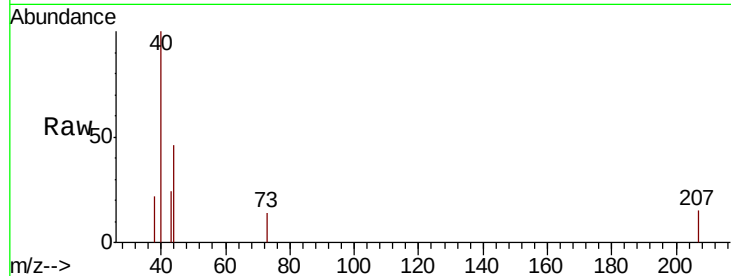




#25
2-Butanone
Concen: 1.601 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW012456.D
Acq: 01 Sep 2019 18:39

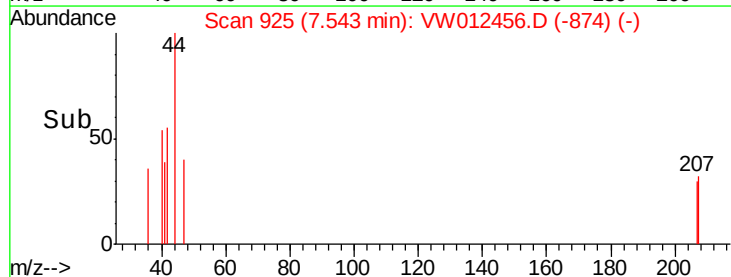
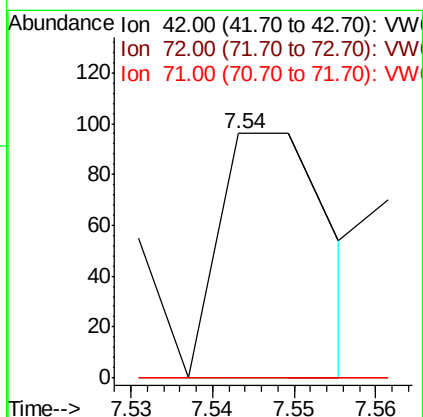
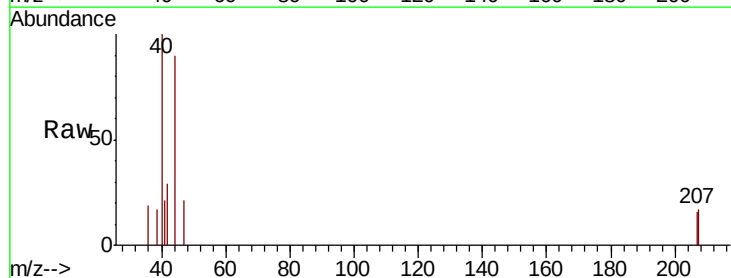
Instrument :
MSVOA_W
ClientSampleId :
T1-S-E(0)

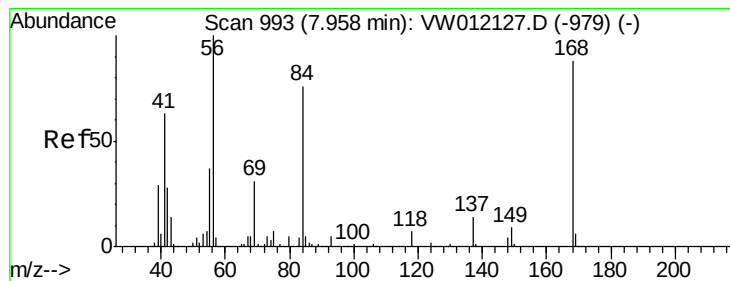
Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#



#29
Tetrahydrofuran
Concen: 4.448 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW012456.D
Acq: 01 Sep 2019 18:39

Tgt Ion: 42 Resp: 90
Ion Ratio Lower Upper
42 100
72 0.0 27.3 40.9#
71 0.0 25.5 38.3#





#31

Cyclohexane

Concen: 2.059 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012456.D

Acq: 01 Sep 2019 18:39

Instrument :

MSVOA_W

ClientSampleId :

T1-S-E(0)

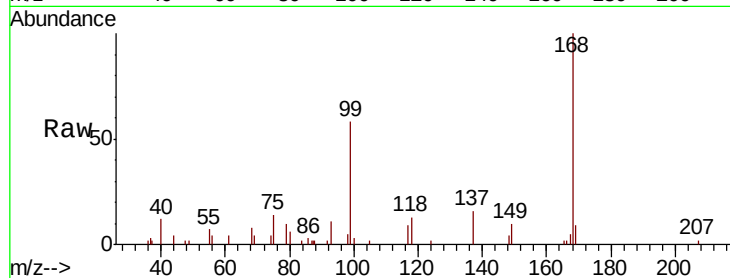
Tgt Ion: 56 Resp: 360

Ion Ratio Lower Upper

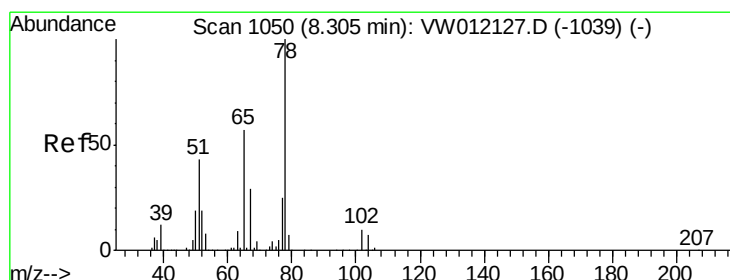
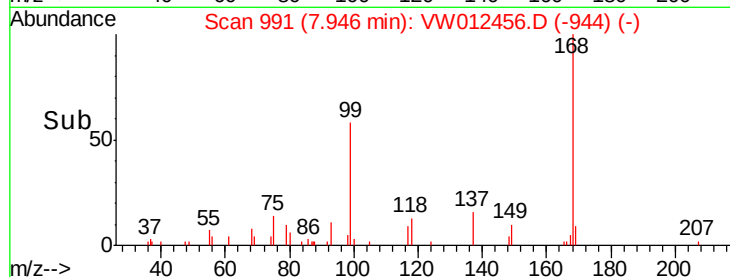
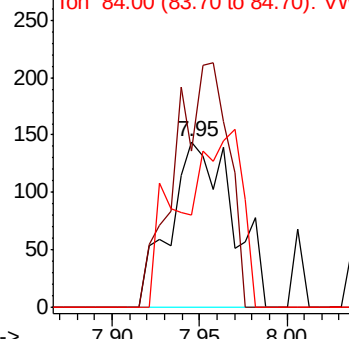
56 100

69 94.4 24.9 37.3#

84 55.6 60.6 90.8#



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: 49.585 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VW012456.D

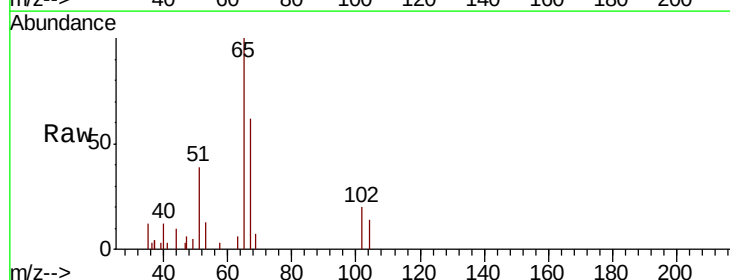
Acq: 01 Sep 2019 18:39

Tgt Ion: 65 Resp: 4814

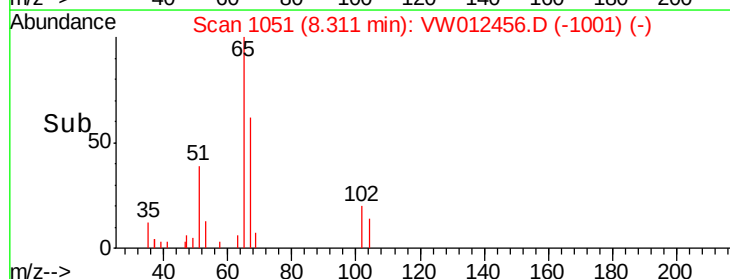
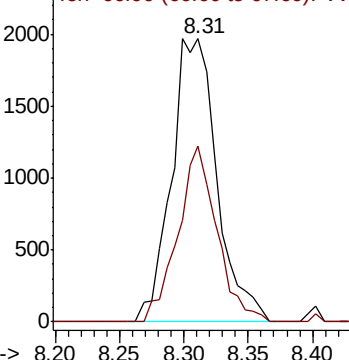
Ion Ratio Lower Upper

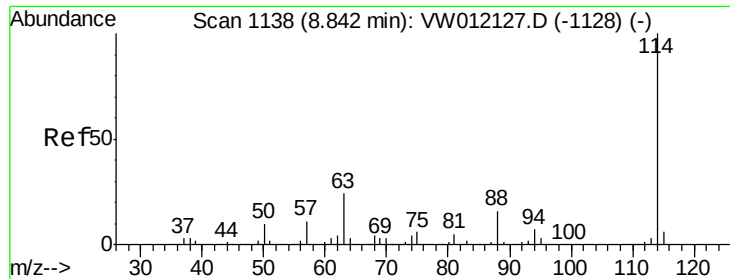
65 100

67 53.2 0.0 102.6



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

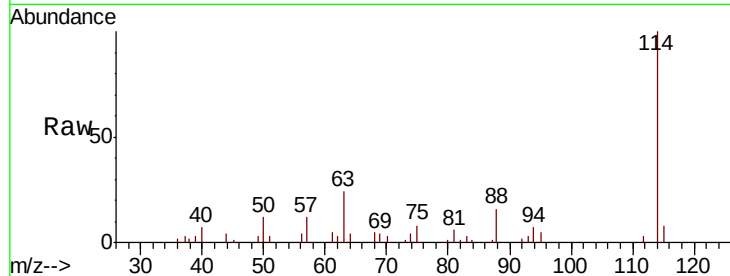




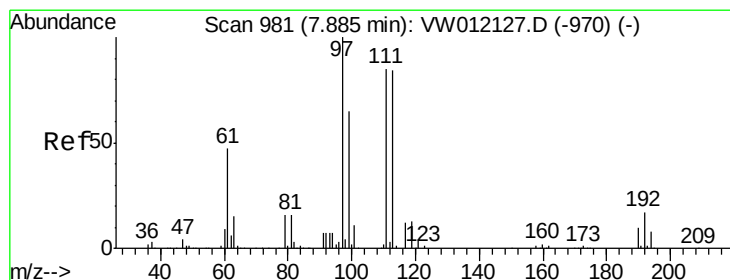
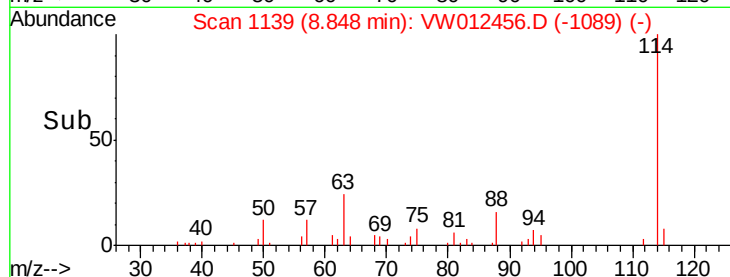
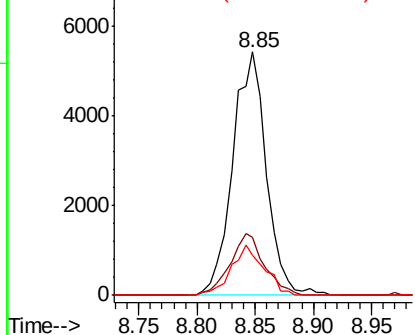
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW012456.D
 Acq: 01 Sep 2019 18:39

Instrument :
 MSVOA_W
 ClientSampleId :
 T1-S-E-(0)

Tgt Ion:114 Resp: 10876
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 48.6
 88 16.2 0.0 32.2

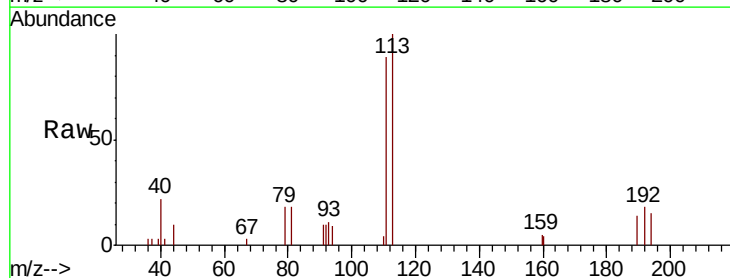


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

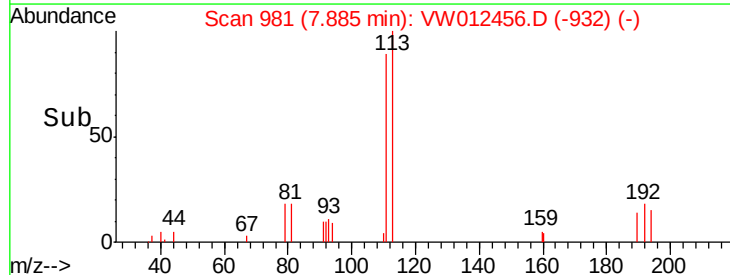
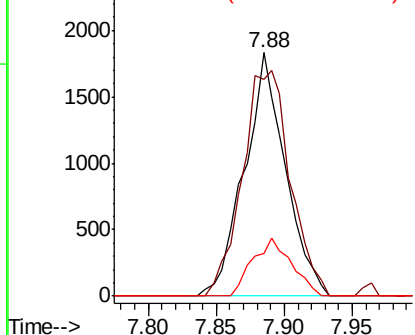


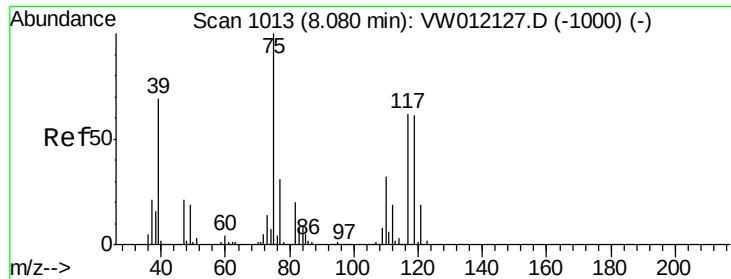
#35
 Dibromofluoromethane
 Concen: 59.551 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW012456.D
 Acq: 01 Sep 2019 18:39

Tgt Ion:113 Resp: 3866
 Ion Ratio Lower Upper
 113 100
 111 108.0 82.7 124.1
 192 22.7 16.2 24.2



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

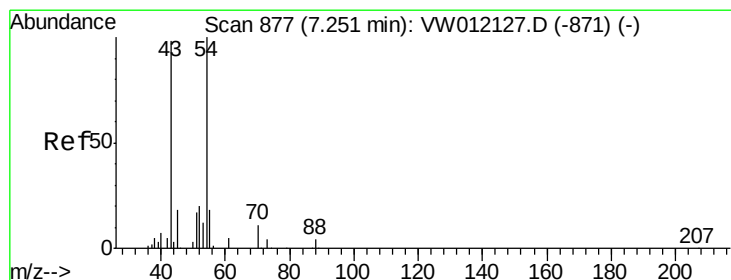
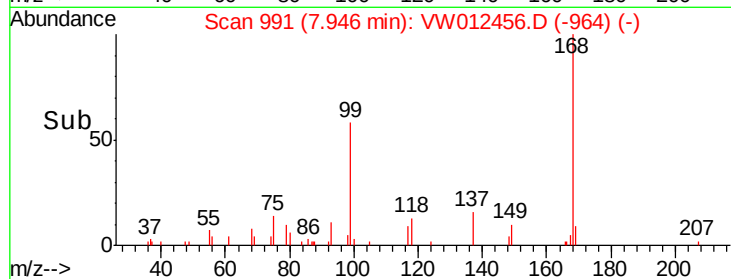
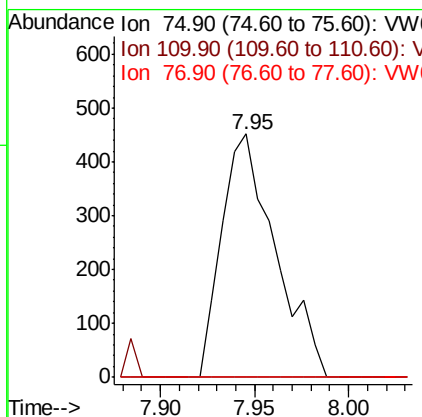
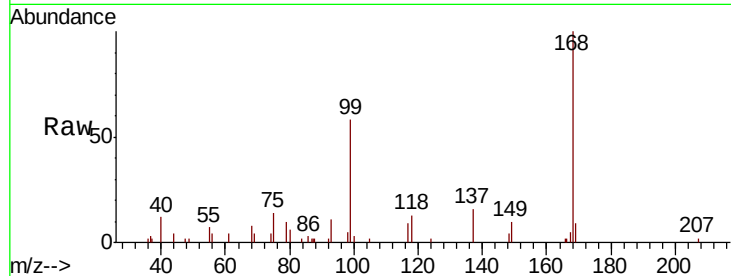




#36
 1,1-Dichloropropene
 Concen: 7.928 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012456.D
 Acq: 01 Sep 2019 18:39

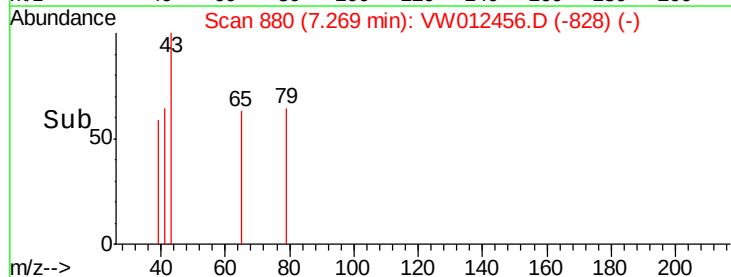
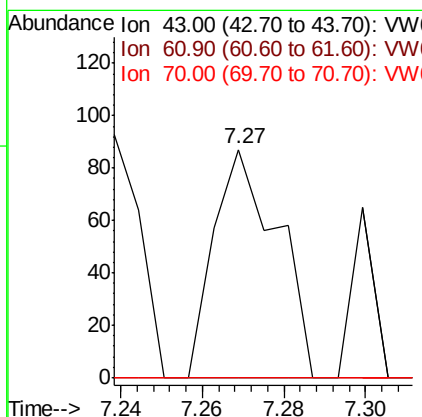
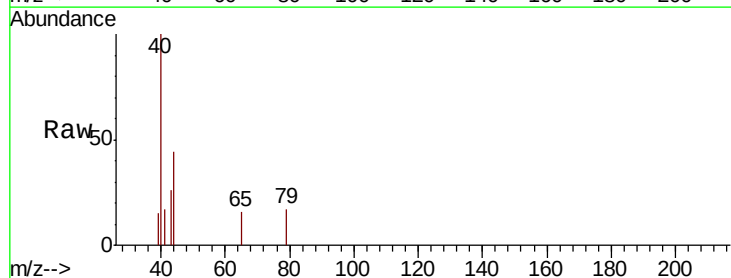
Instrument :
 MSVOA_W
 ClientSampled :
 T1-S-E(0)

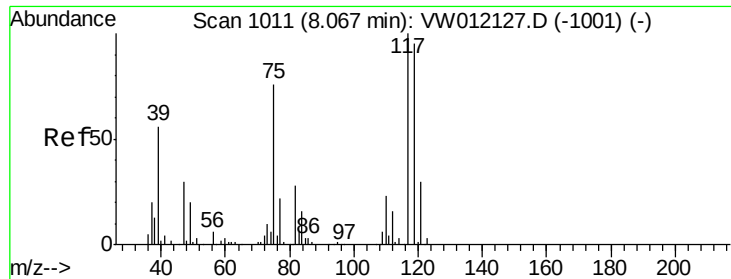
Tgt Ion: 75 Resp: 891
 Ion Ratio Lower Upper
 75 100
 110 0.0 15.6 46.8#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 1.526 ug/l
 RT: 7.27 min Scan# 880
 Delta R.T. 0.02 min
 Lab File: VW012456.D
 Acq: 01 Sep 2019 18:39

Tgt Ion: 43 Resp: 94
 Ion Ratio Lower Upper
 43 100
 61 0.0 9.2 13.8#
 70 0.0 6.9 10.3#

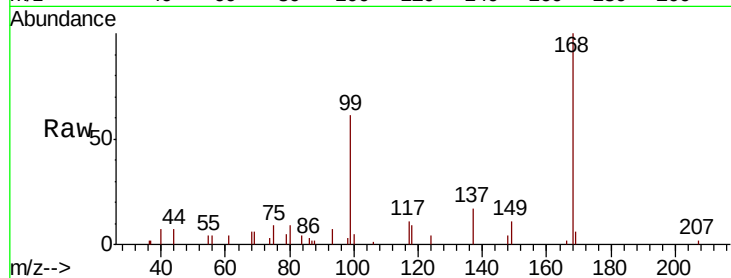




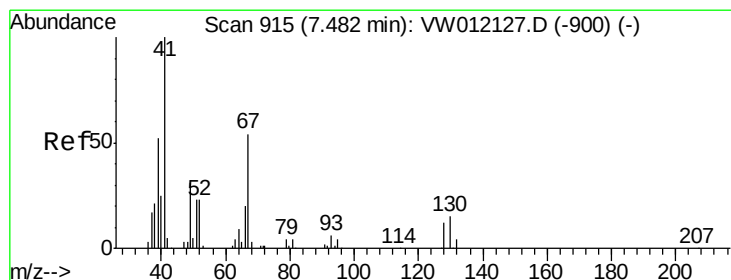
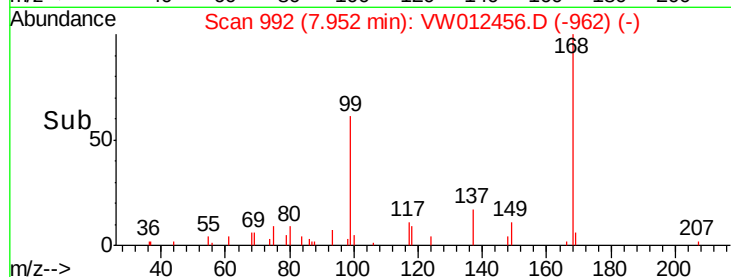
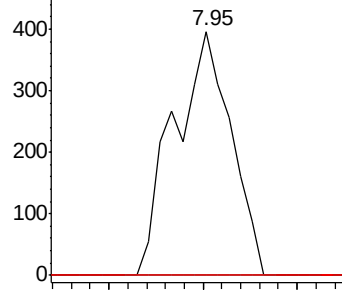
#38
Carbon Tetrachloride
Concen: 8.573 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW012456.D
Acq: 01 Sep 2019 18:39

Instrument :
MSVOA_W
ClientSampleId :
T1-S-E(0)

Tgt Ion: 117 Resp: 834
Ion Ratio Lower Upper
117 100
119 0.0 76.2 114.2#
121 0.0 23.8 35.8#

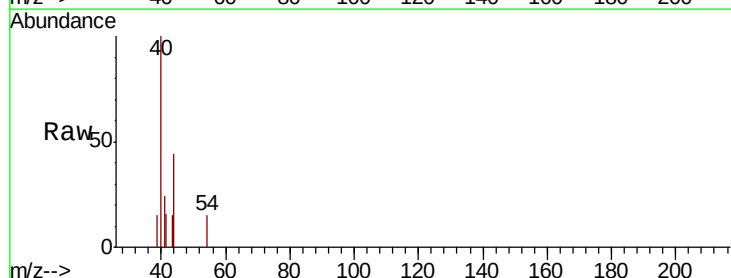


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

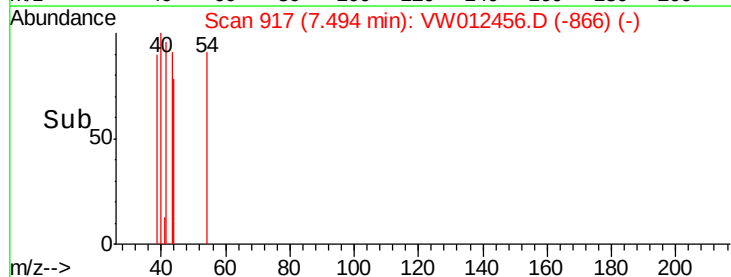
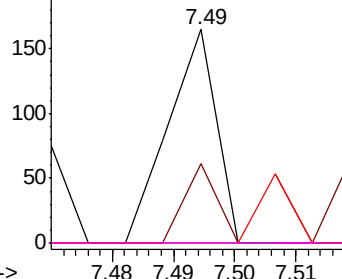


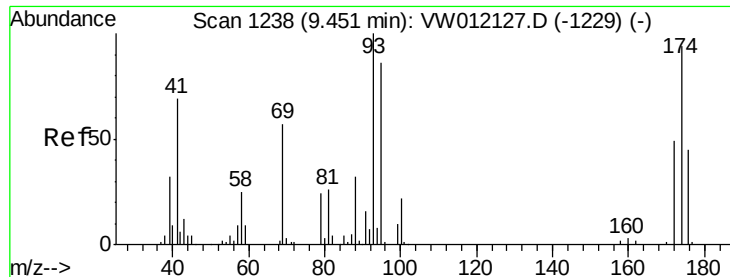
#41
Methacrylonitrile
Concen: 2.459 ug/l
RT: 7.49 min Scan# 917
Delta R.T. 0.01 min
Lab File: VW012456.D
Acq: 01 Sep 2019 18:39

Tgt Ion: 41 Resp: 89
Ion Ratio Lower Upper
41 100
39 24.7 45.8 68.8#
67 21.3 46.2 69.4#
52 0.0 21.0 31.6#



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

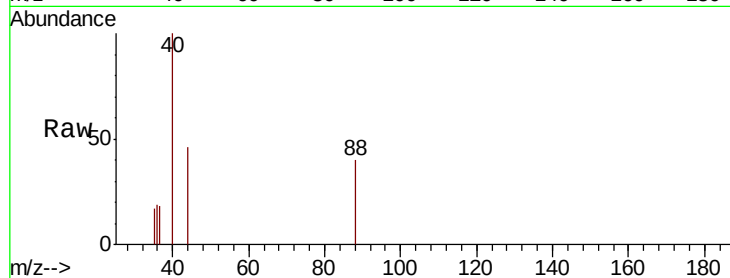




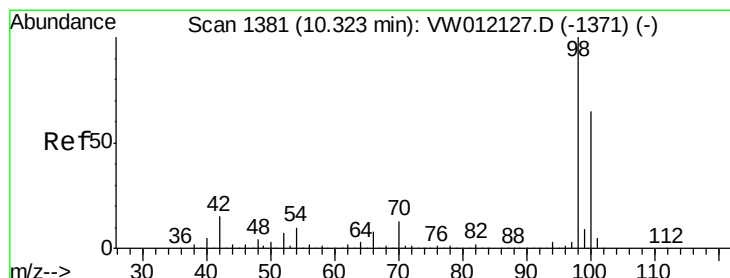
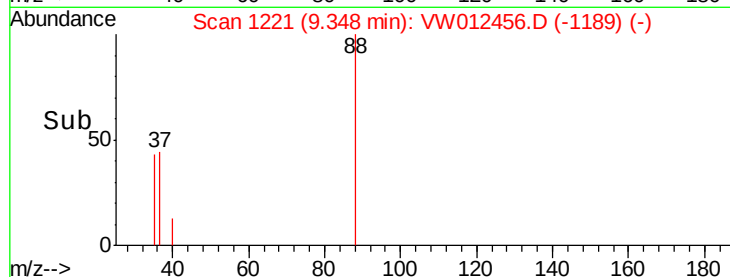
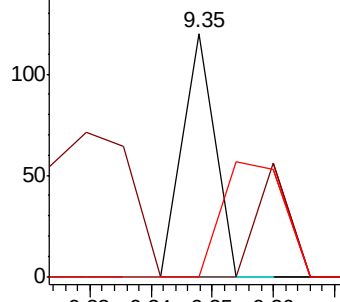
#49
 1,4-Dioxane
 Concen: 78.212 ug/l
 RT: 9.35 min Scan# 1221
 Delta R.T. -0.10 min
 Lab File: VW012456.D
 Acq: 01 Sep 2019 18:39

Instrument :
 MSVOA_W
 ClientSampled :
 T1-S-E(0)

Tgt Ion: 88 Resp: 44
 Ion Ratio Lower Upper
 88 100
 43 45.5 32.9 49.3
 58 90.9 71.0 106.4

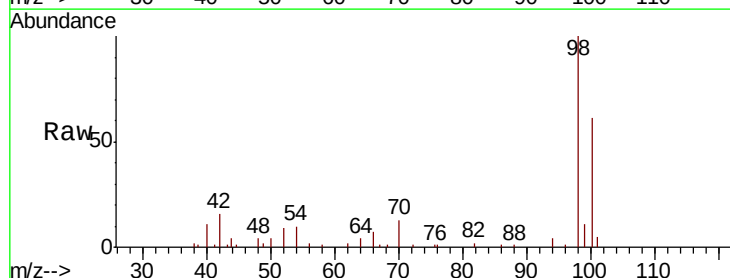


Abundance Ion 88.00 (87.70 to 88.70): VW
 Ion 43.00 (42.70 to 43.70): VW
 Ion 58.00 (57.70 to 58.70): VW

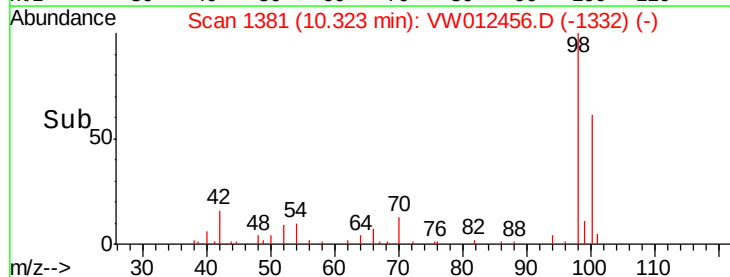
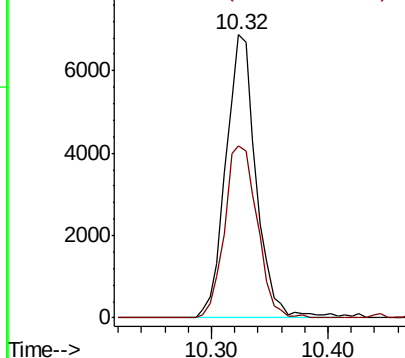


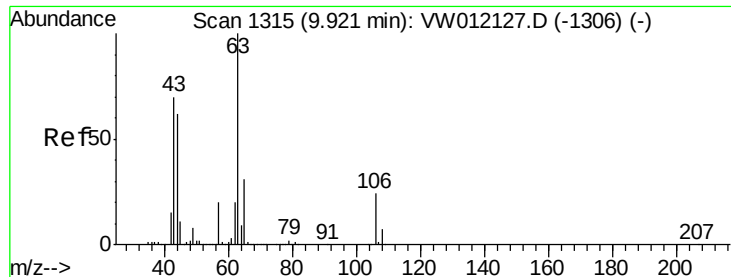
#50
 Toluene-d8
 Concen: 47.176 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VW012456.D
 Acq: 01 Sep 2019 18:39

Tgt Ion: 98 Resp: 12418
 Ion Ratio Lower Upper
 98 100
 100 65.4 52.4 78.6



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

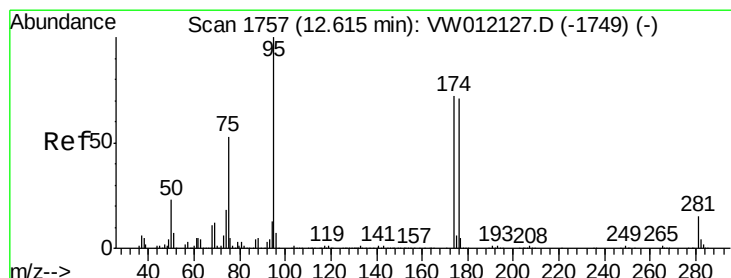
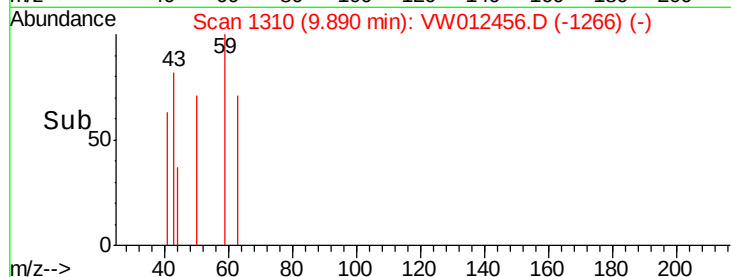
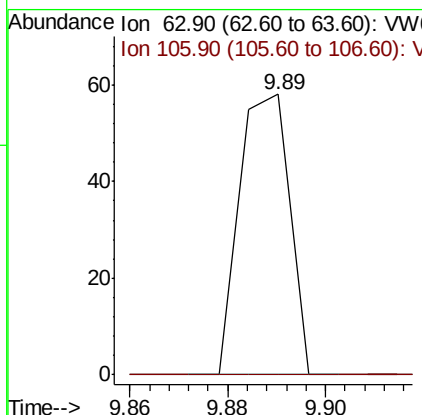
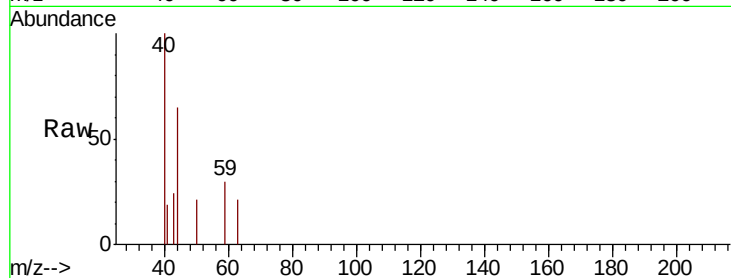




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.056 ug/l
 RT: 9.89 min Scan# 1310
 Delta R.T. -0.03 min
 Lab File: VW012456.D
 Acq: 01 Sep 2019 18:39

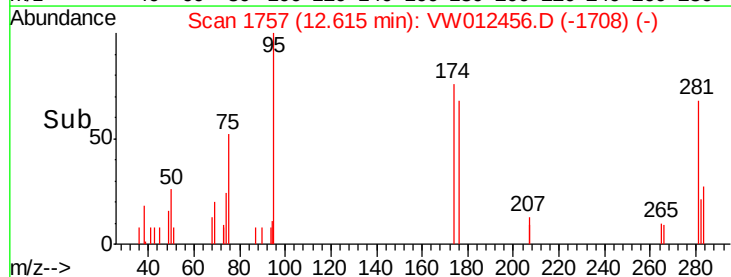
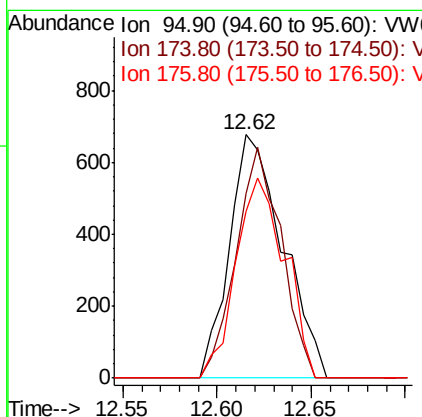
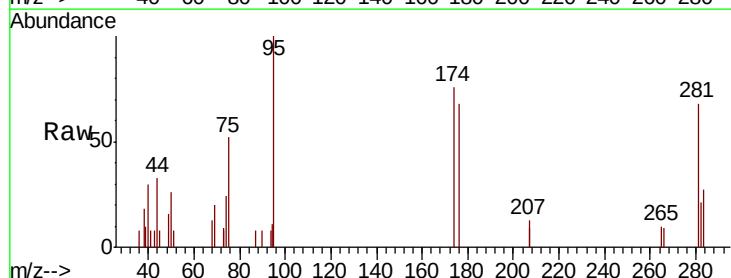
Instrument :
 MSVOA_W
 ClientSampleId :
 T1-S-E-(0)

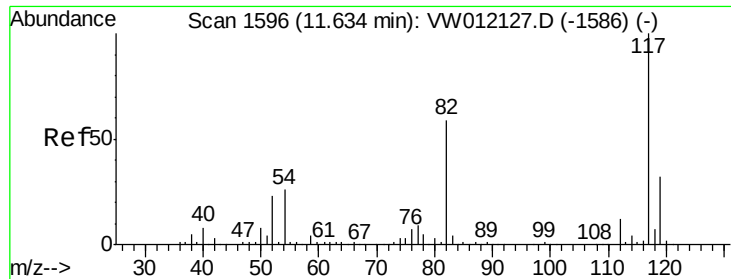
Tgt Ion: 63 Resp: 41
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.8 29.8#



#62
 4-Bromofluorobenzene
 Concen: 14.377 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VW012456.D
 Acq: 01 Sep 2019 18:39

Tgt Ion: 95 Resp: 1334
 Ion Ratio Lower Upper
 95 100
 174 79.6 0.0 150.8
 176 75.2 0.0 148.6

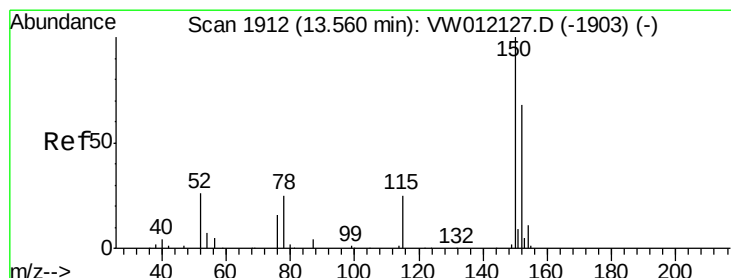
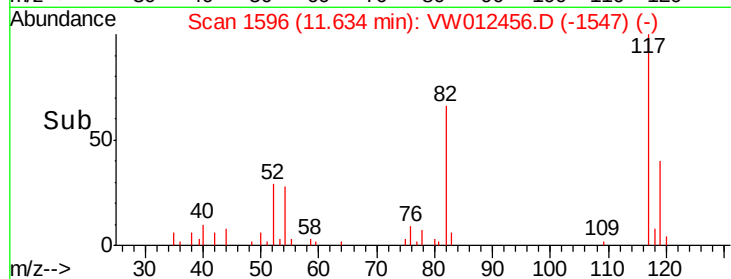
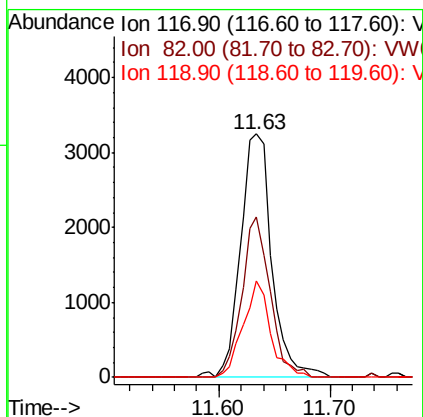
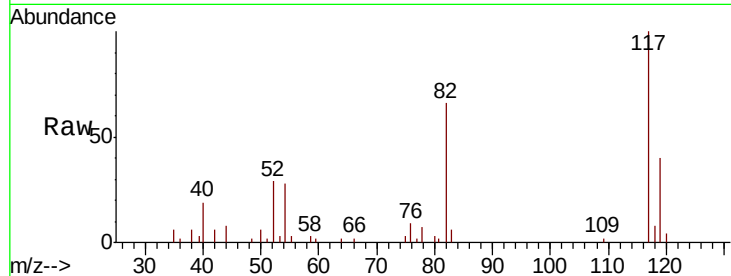




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW012456.D
Acq: 01 Sep 2019 18:39

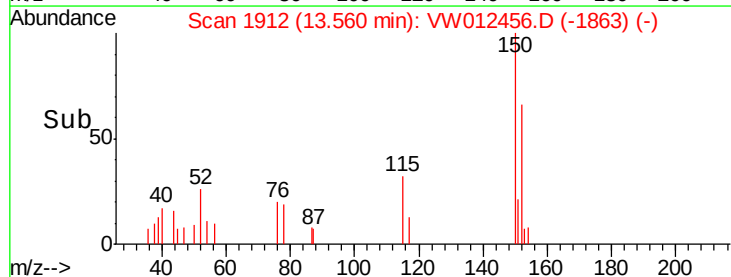
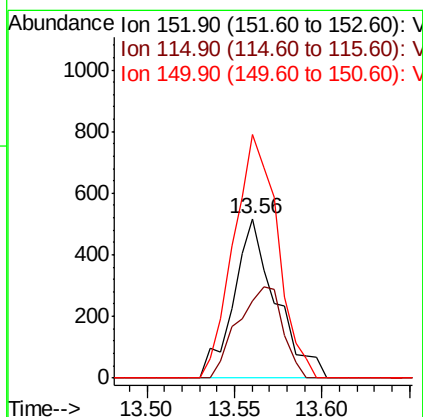
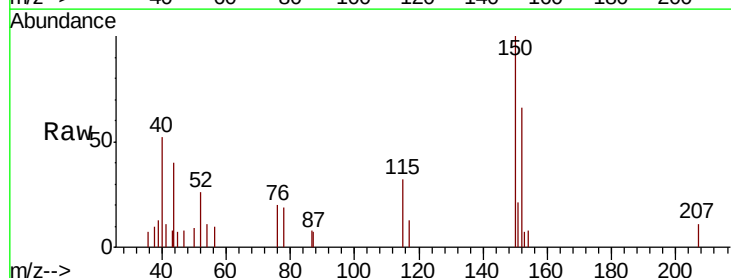
Instrument :
MSVOA_W
ClientSampleId :
T1-S-E-(0)

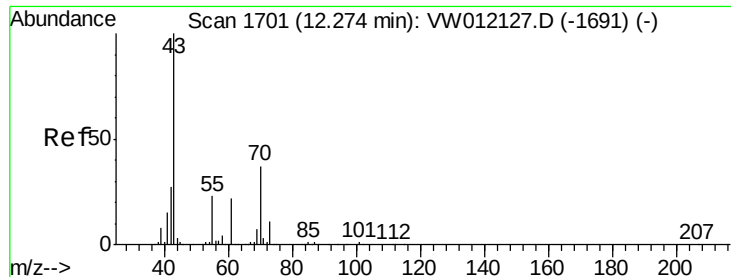
Tgt Ion:117 Resp: 6329
Ion Ratio Lower Upper
117 100
82 65.9 47.4 71.2
119 39.8 25.4 38.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW012456.D
Acq: 01 Sep 2019 18:39

Tgt Ion:152 Resp: 865
Ion Ratio Lower Upper
152 100
115 60.7 30.1 90.3
150 159.2 0.0 345.8





#74

N-amyI acetate

Concen: 3.217 ug/l

RT: 12.26 min Scan# 1699

Delta R.T. -0.01 min

Lab File: VW012456.D

Acq: 01 Sep 2019 18:39

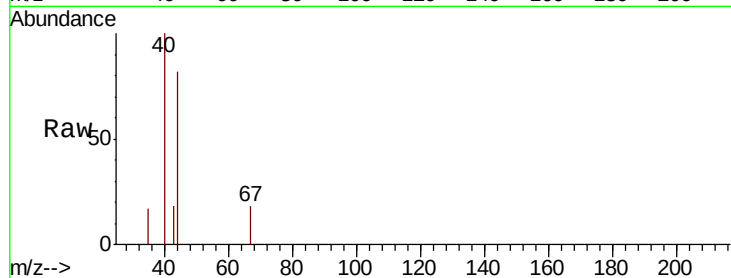
Instrument :

MSVOA_W

ClientSampleId :

T1-S-E(0)

Tgt Ion:	43	Resp:	63
Ion	Ratio	Lower	Upper
43	100		
70	0.0	28.6	43.0#
55	33.3	17.8	26.6#
61	0.0	17.3	25.9#

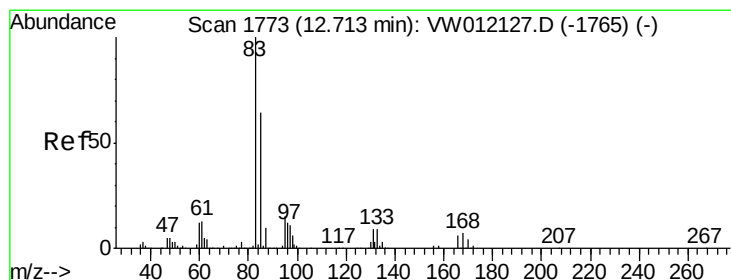
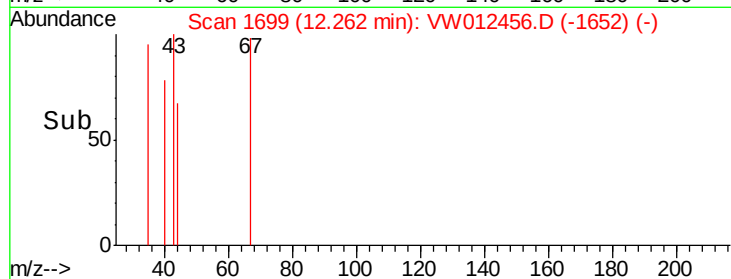
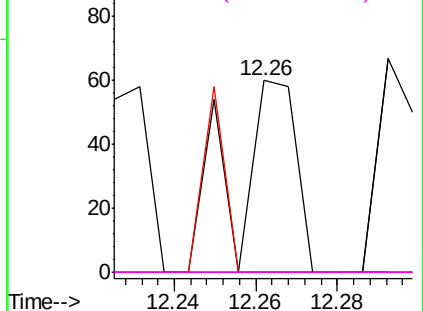


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 1.683 ug/l

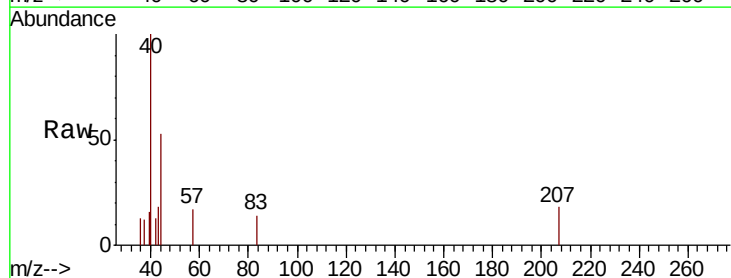
RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW012456.D

Acq: 01 Sep 2019 18:39

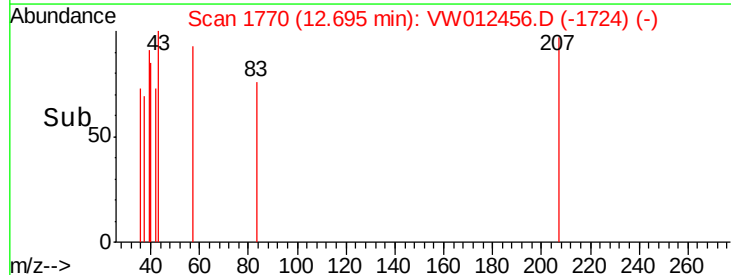
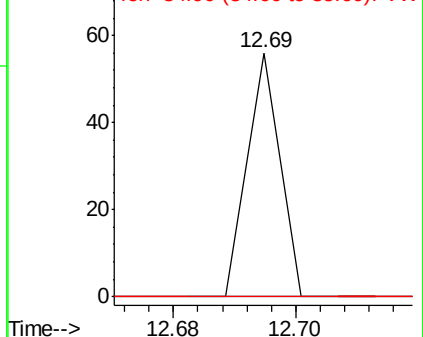
Tgt Ion:	83	Resp:	20
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.7#
85	0.0	31.9	95.7#

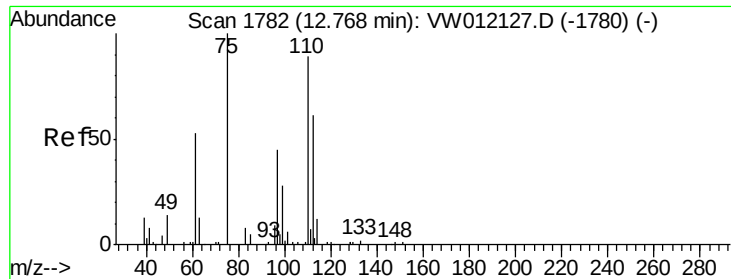


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 84.872 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012456.D

Acq: 01 Sep 2019 18:39

Instrument :

MSVOA_W

ClientSampled :

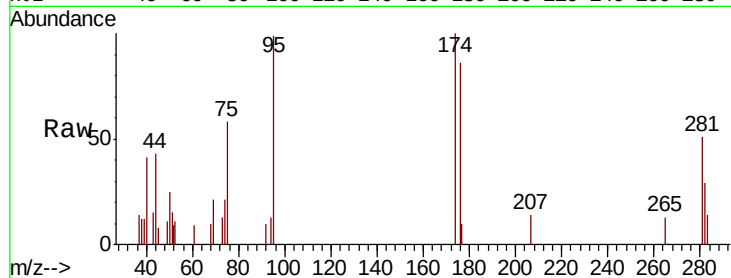
T1-S-E(0)

Tgt Ion: 75 Resp: 715

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

400

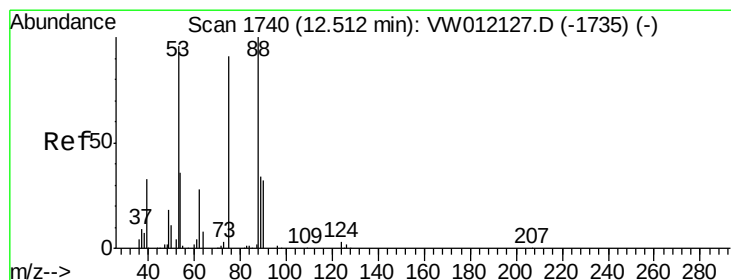
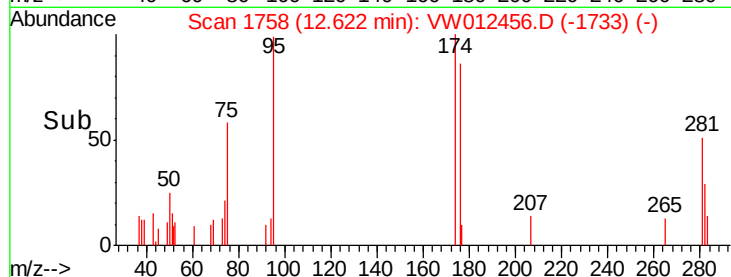
300

200

100

0

Time--> 12.55 12.60 12.65



#81

trans-1,4-Dichloro-2-butene

Concen: 186.084 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012456.D

Acq: 01 Sep 2019 18:39

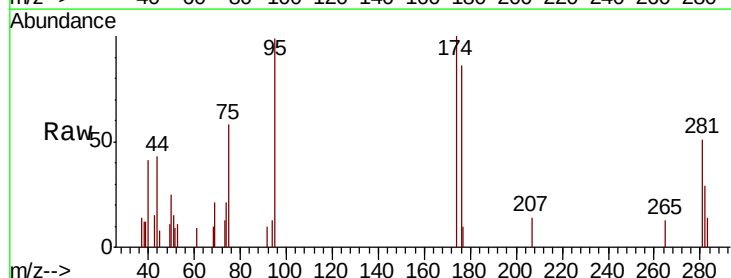
Tgt Ion: 75 Resp: 715

Ion Ratio Lower Upper

75 100

53 2.7 89.4 134.0#

89 0.0 34.5 51.7#



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

500

400

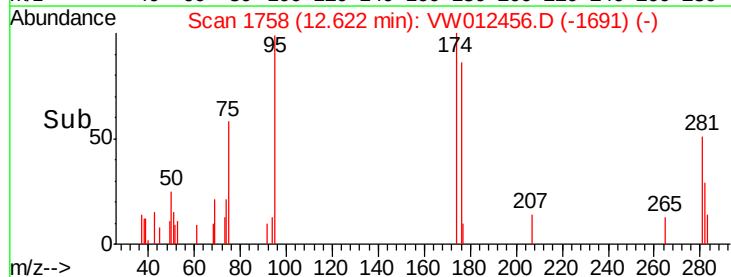
300

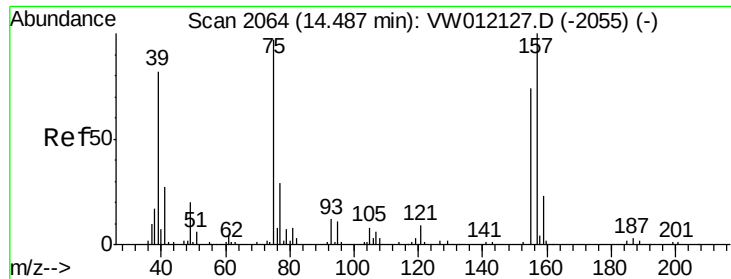
200

100

0

Time--> 12.55 12.60 12.65





#92

1,2-Dibromo-3-Chloropropane

Concen: 24.461 ug/l

RT: 14.60 min Scan# 2082

Delta R.T. 0.11 min

Lab File: VW012456.D

Acq: 01 Sep 2019 18:39

Instrument :

MSVOA_W

ClientSampleId :

T1-S-E-(0)

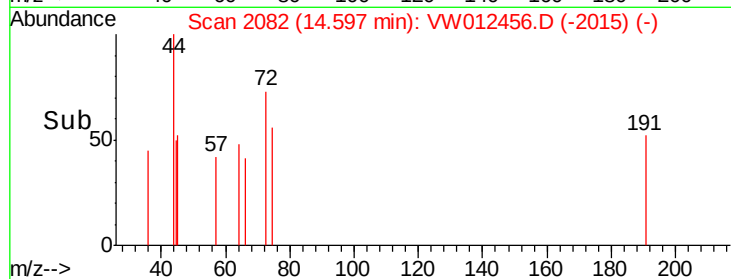
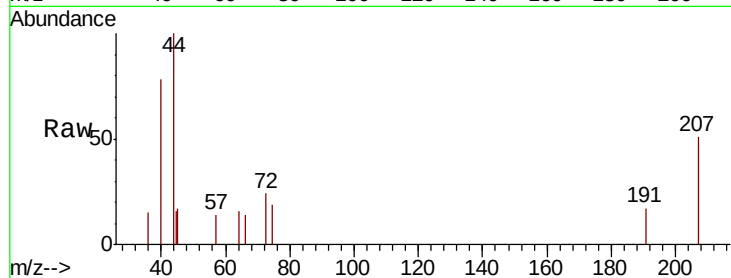
Tgt Ion: 75 Resp: 49

Ion Ratio Lower Upper

75 100

155 0.0 37.5 112.3#

157 0.0 50.5 151.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

