

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010820\
 Data File : VW014567.D
 Acq On : 08 Jan 2020 18:34
 Operator : SY/VA
 Sample : L1056-08
 Misc : 8.84G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jan 09 00:56:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 03 16:07:20 2020
 Response via : Initial Calibration

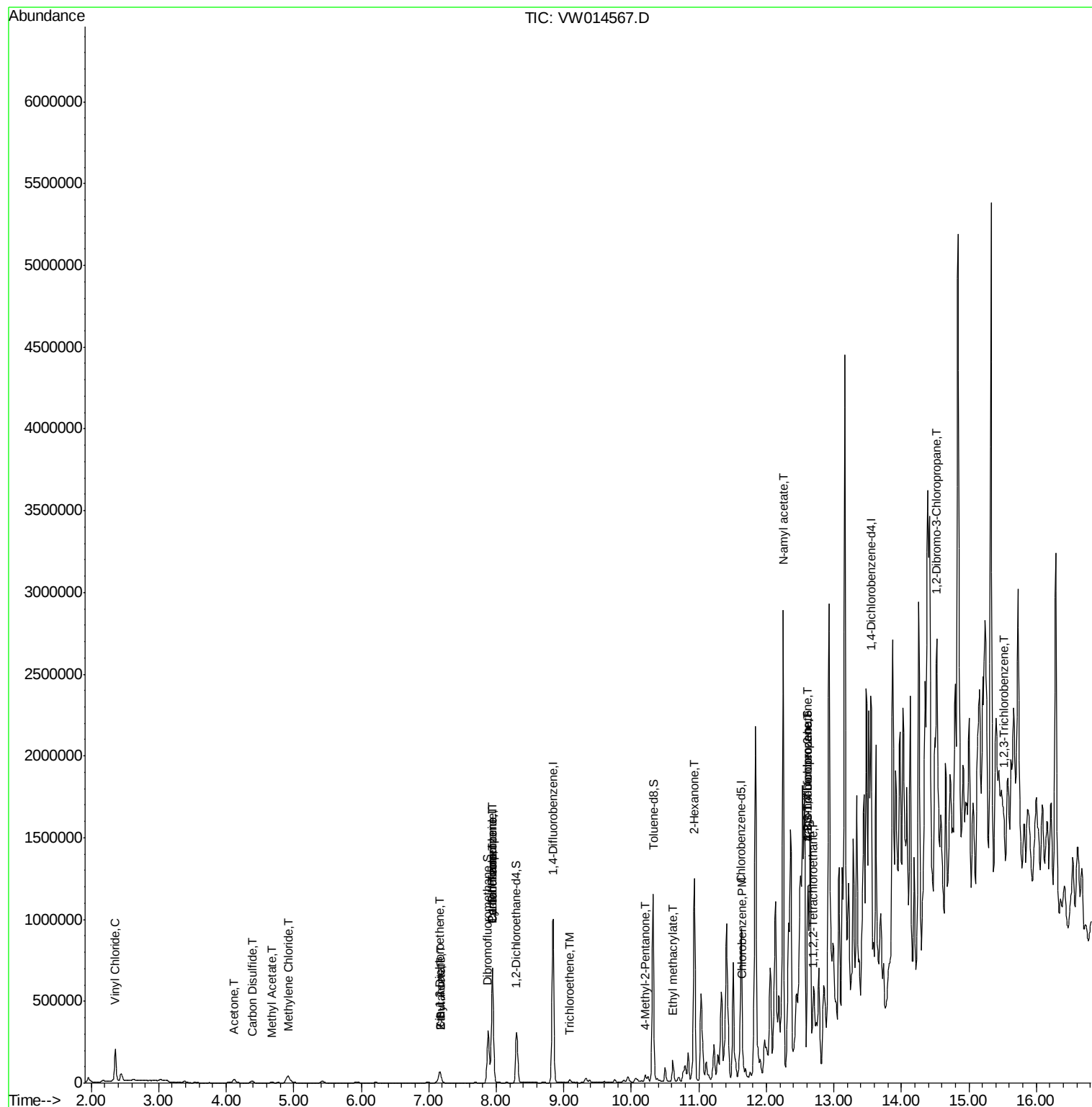
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	563913	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	898952	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	522611	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	180283	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	241388	48.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.92%	
35) Dibromofluoromethane	7.88	113	237450	46.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.44%	
50) Toluene-d8	10.32	98	784728	36.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.20%	
62) 4-Bromofluorobenzene	12.62	95	172740	23.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.50%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.35	62	197754	34.499	ug/l	98
11) Tert butyl alcohol	5.15	59	983	Below Cal	#	85
16) Acetone	4.12	43	37096	26.646	ug/l	98
17) Carbon Disulfide	4.38	76	19317	1.142	ug/l	98
18) Methyl Acetate	4.67	43	7929	2.358	ug/l	99
20) Methylene Chloride	4.91	84	37063	2.269	ug/l	97
25) 2-Butanone	7.18	43	11234	6.288	ug/l	96
27) cis-1,2-Dichloroethene	7.16	96	34879	5.571	ug/l	93
31) Cyclohexane	7.94	56	12514	1.189	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	38592	4.453	ug/l #	50
37) Ethyl Acetate	7.18	43	11234	2.858	ug/l #	1
38) Carbon Tetrachloride	7.95	117	49973	6.647	ug/l #	16
44) Trichloroethene	9.09	130	6765	1.020	ug/l	82
51) 4-Methyl-2-Pentanone	10.21	43	4114	1.110	ug/l #	82
56) Ethyl methacrylate	10.62	69	36433	6.462	ug/l #	80
59) 2-Hexanone	10.93	43	461245	180.595	ug/l #	27
65) Chlorobenzene	11.65	112	15980	1.493	ug/l	98
74) N-amyl acetate	12.25	43	573204	193.255	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	12.68	83	17917	7.504	ug/l #	28
76) 1,2,3-Trichloropropane	12.62	75	71507	41.951	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	71507	93.468	ug/l #	30
92) 1,2-Dibromo-3-Chloropropan	14.52	75	843	2.230	ug/l	76
96) 1,2,3-Trichlorobenzene	15.52	180	14278	4.619	ug/l #	53

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

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QLast Update : Fri Jan 03 16:07:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW014567.D

Acq: 08 Jan 2020 18:34

Instrument :

MSVOA_W

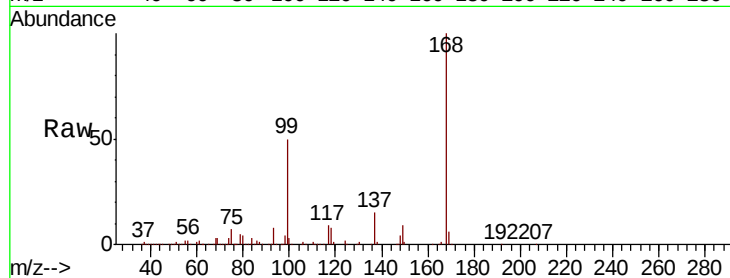
ClientSampleId :

Tot Ion:168 Resp: 563913

Ion Ratio Lower Upper

168 100

99 49.8 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

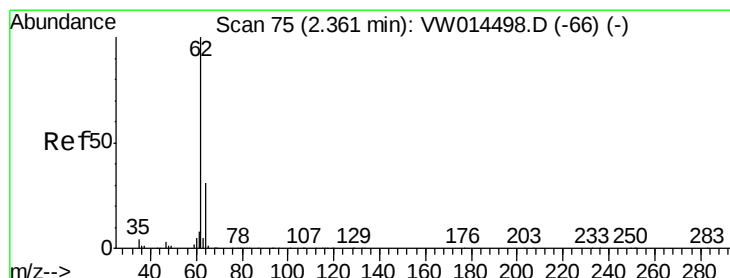
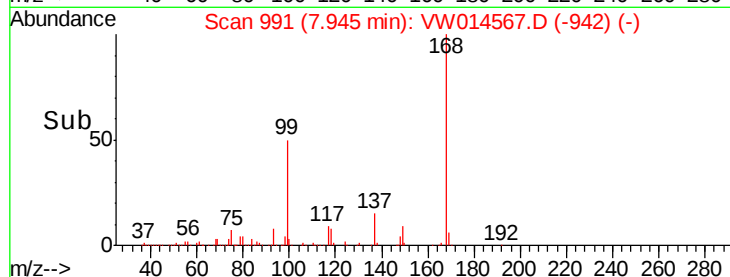
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#4

Vinyl Chloride

Concen: 34.499 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW014567.D

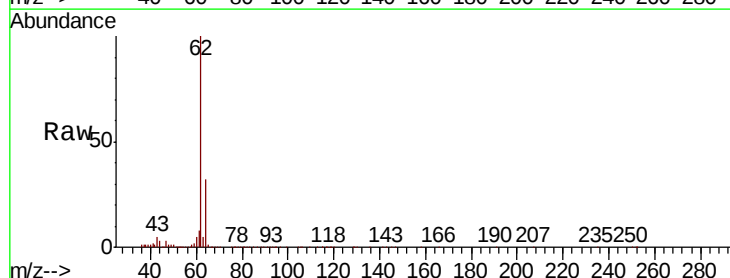
Acq: 08 Jan 2020 18:34

Tgt Ion: 62 Resp: 197754

Ion Ratio Lower Upper

62 100

64 32.0 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.35

120000

100000

80000

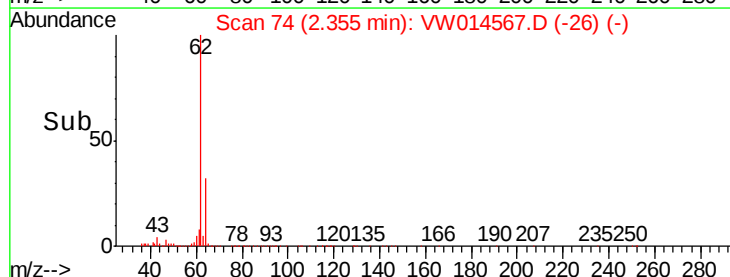
60000

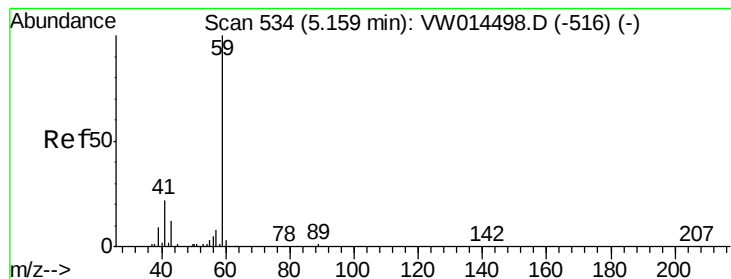
40000

20000

0

Time--> 2.30 2.40 2.50



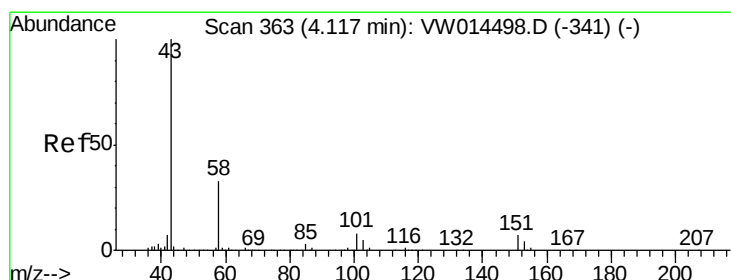
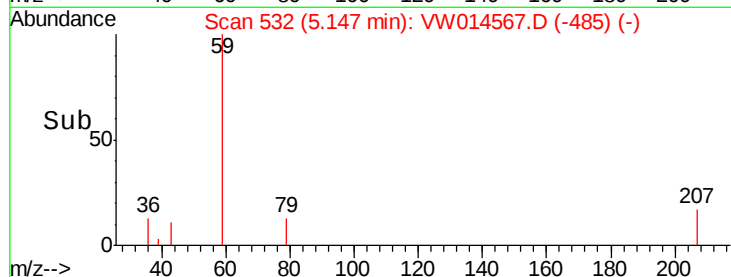
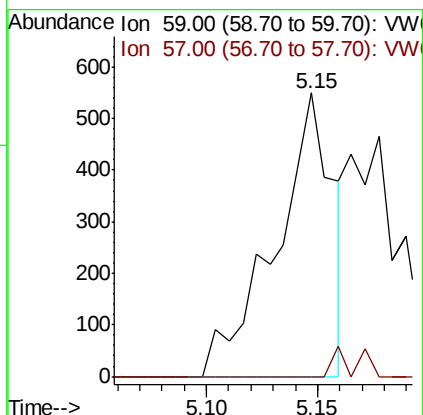
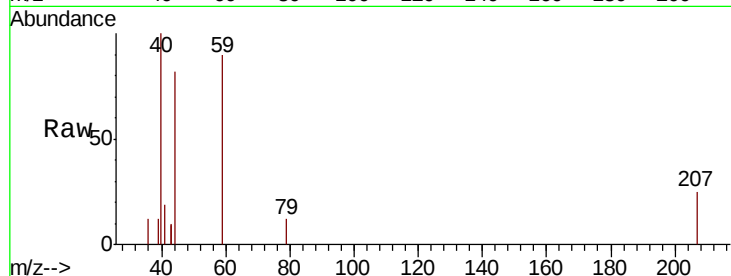


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.15 min Scan# 532
 Delta R.T. -0.01 min
 Lab File: VW014567.D
 Acq: 08 Jan 2020 18:34

Instrument :
 MSVOA_W
 ClientSampled :

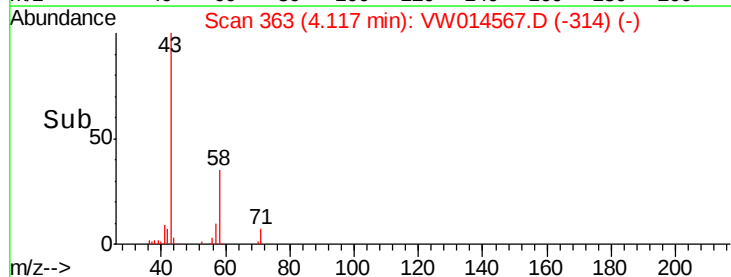
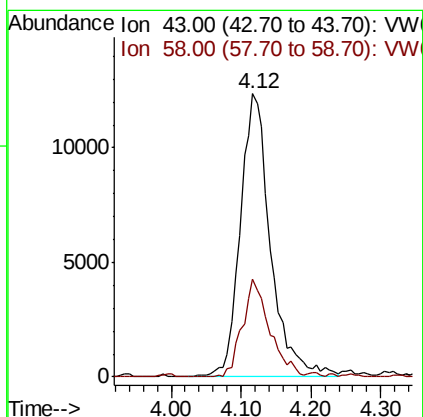
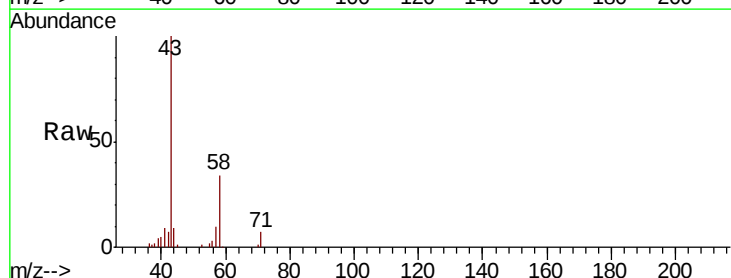
Tot Ion: 59 Resp: 983
 Ion Ratio Lower Upper
 59 100
 57 4.2 7.8 11.8#

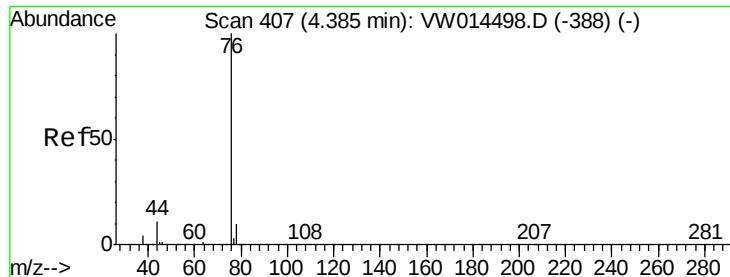


#16

Acetone
 Concen: 26.646 ug/l
 RT: 4.12 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VW014567.D
 Acq: 08 Jan 2020 18:34

Tgt Ion: 43 Resp: 37096
 Ion Ratio Lower Upper
 43 100
 58 34.5 26.6 39.8





#17

Carbon Disulfide

Concen: 1.142 ug/l

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW014567.D

Acq: 08 Jan 2020 18:34

Instrument :

MSVOA_W

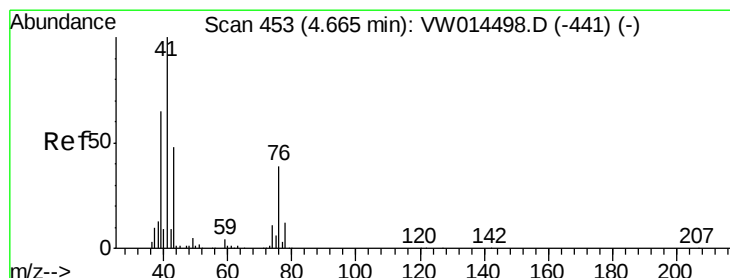
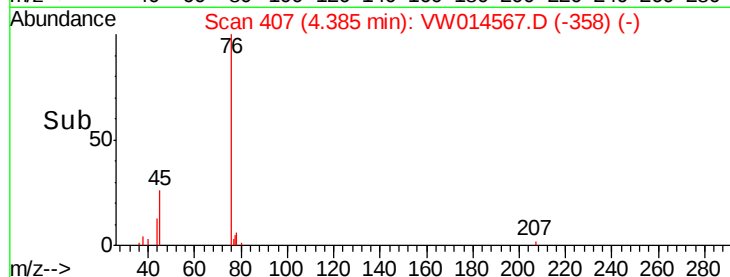
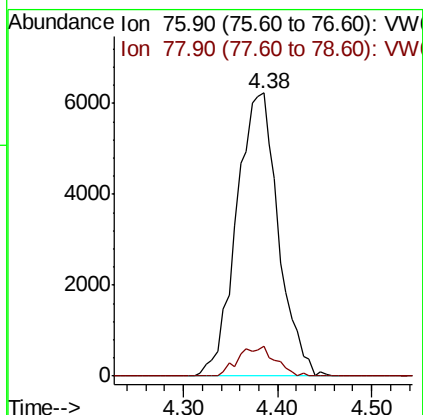
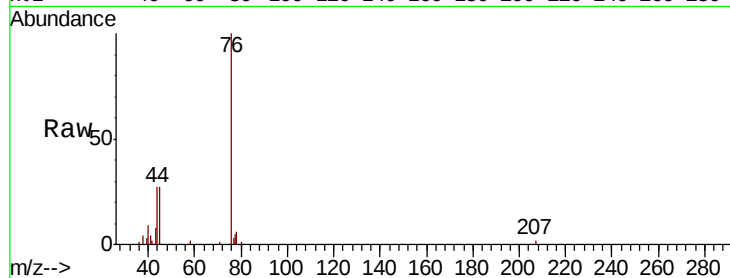
ClientSampled :

Tot Ion: 76 Resp: 19317

Ion Ratio Lower Upper

76 100

78 10.5 7.8 11.6



#18

Methyl Acetate

Concen: 2.358 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW014567.D

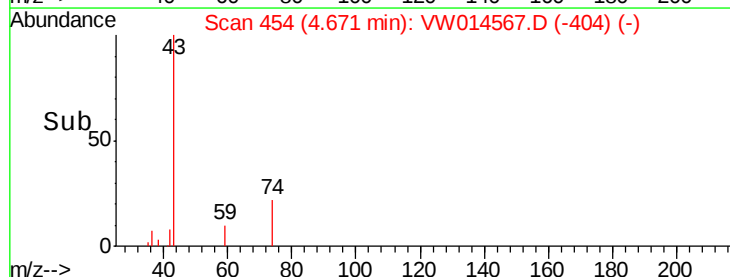
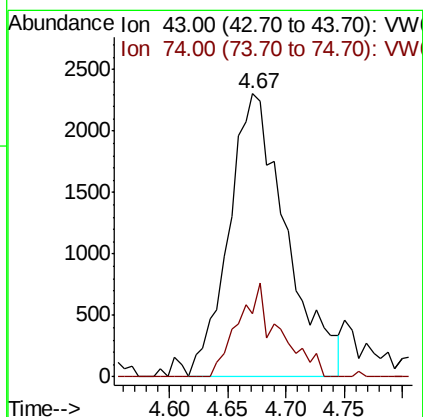
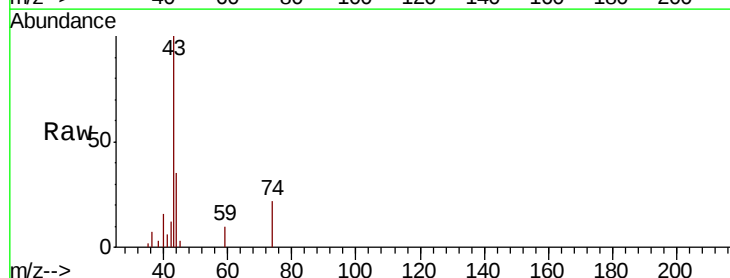
Acq: 08 Jan 2020 18:34

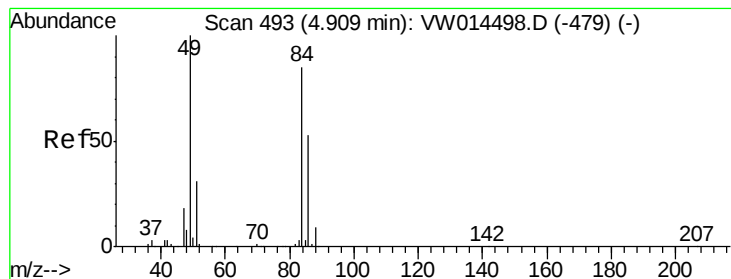
Tgt Ion: 43 Resp: 7929

Ion Ratio Lower Upper

43 100

74 23.7 19.3 28.9





#20

Methvlene Chloride

Concen: 2.269 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW014567.D

Acq: 08 Jan 2020 18:34

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 84 Resp: 37063

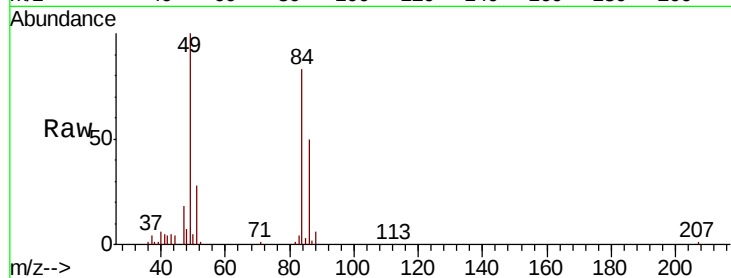
Ion Ratio Lower Upper

84 100

49 120.4 94.4 141.6

51 34.2 29.5 44.3

86 60.3 50.2 75.2



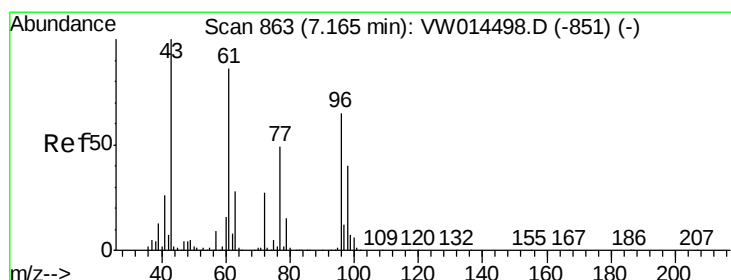
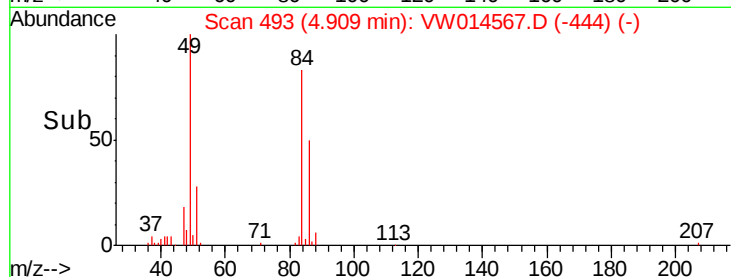
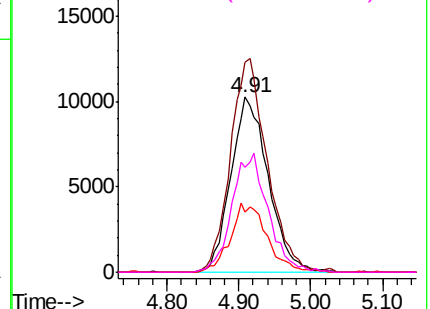
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 6.288 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW014567.D

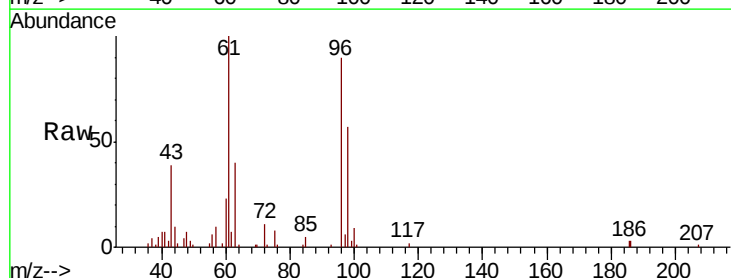
Acq: 08 Jan 2020 18:34

Tgt Ion: 43 Resp: 11234

Ion Ratio Lower Upper

43 100

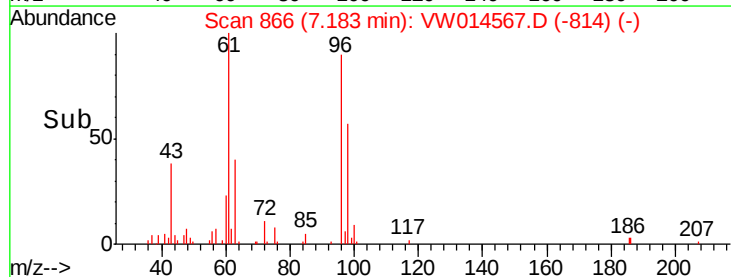
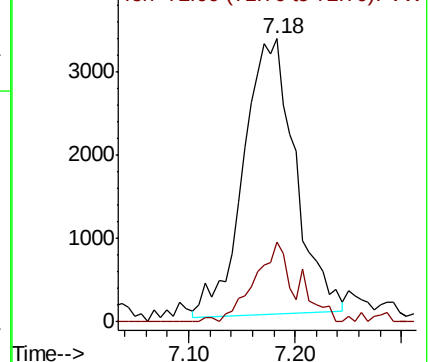
72 29.3 21.9 32.9

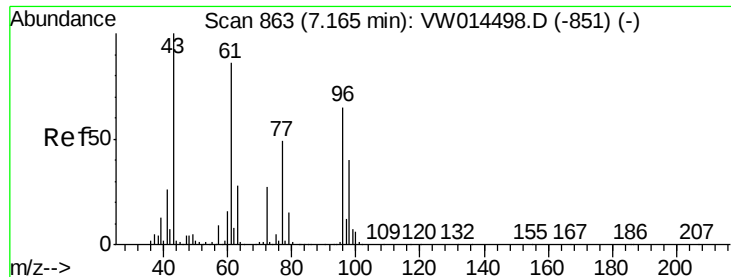


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



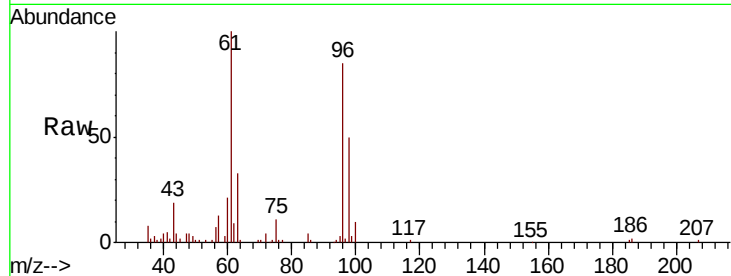


#27

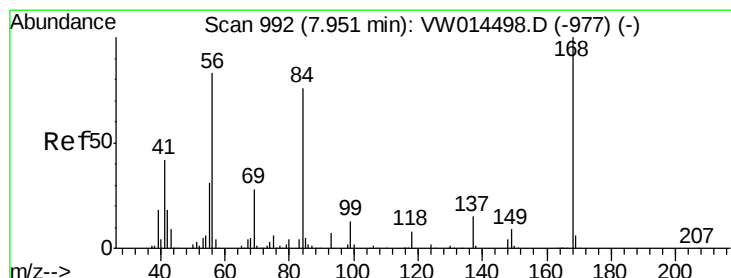
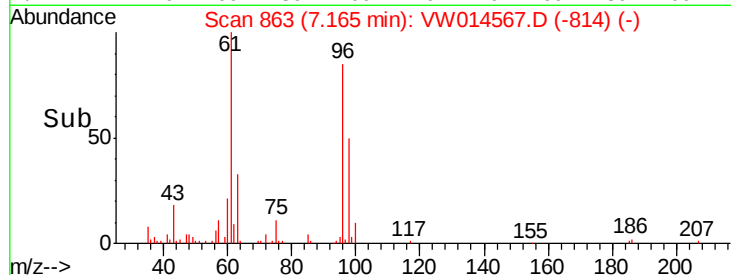
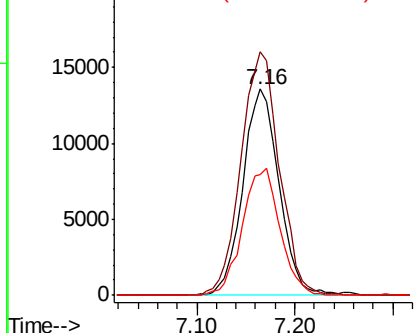
cis-1,2-Dichloroethene
Concen: 5.571 ug/l
RT: 7.16 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW014567.D
Acq: 08 Jan 2020 18:34

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 96 Resp: 34879
Ion Ratio Lower Upper
96 100
61 125.0 0.0 274.8
98 63.7 0.0 128.6



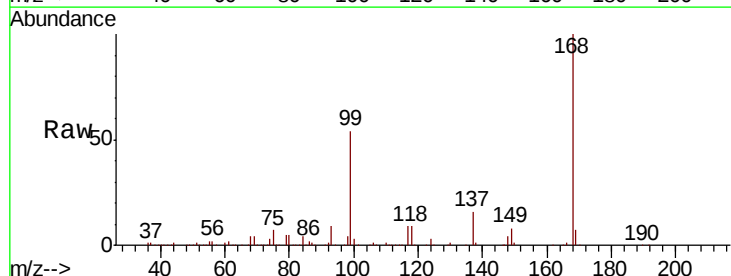
Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



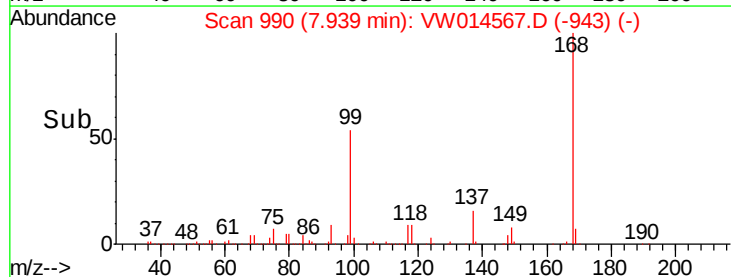
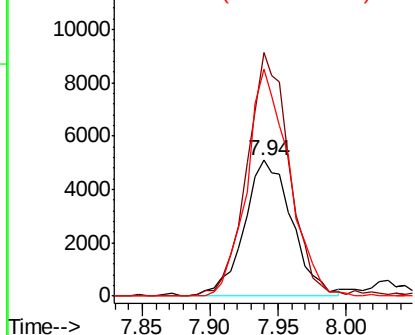
#31

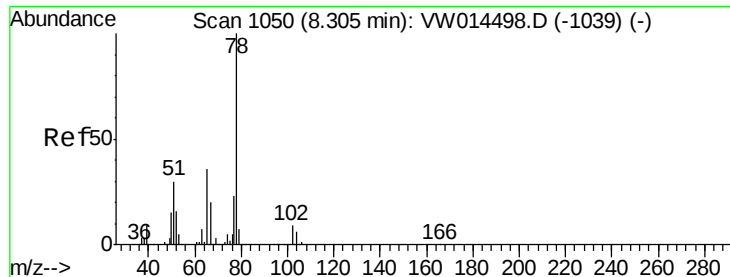
Cyclohexane
Concen: 1.189 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW014567.D
Acq: 08 Jan 2020 18:34

Tgt Ion: 56 Resp: 12514
Ion Ratio Lower Upper
56 100
69 179.3 26.8 40.2#
84 167.5 71.8 107.6#



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

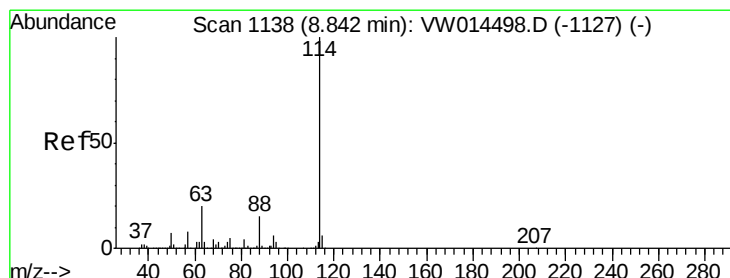
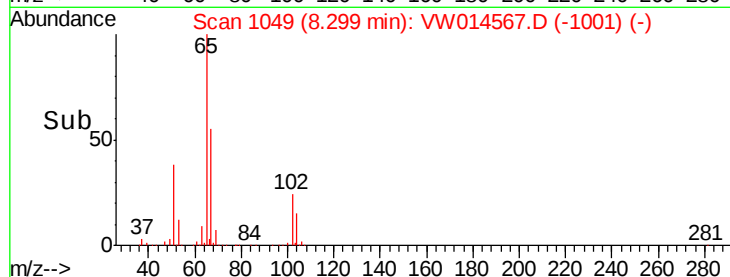
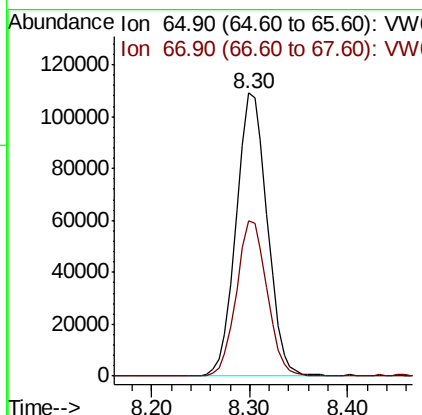
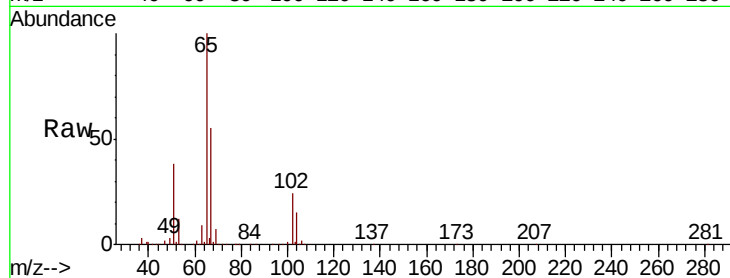




#33
 1,2-Dichloroethane-d4
 Concen: 48.959 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW014567.D
 Acq: 08 Jan 2020 18:34

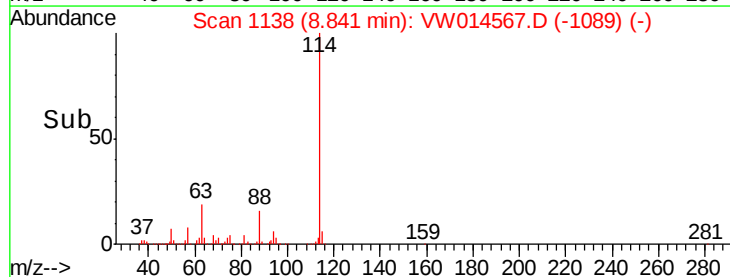
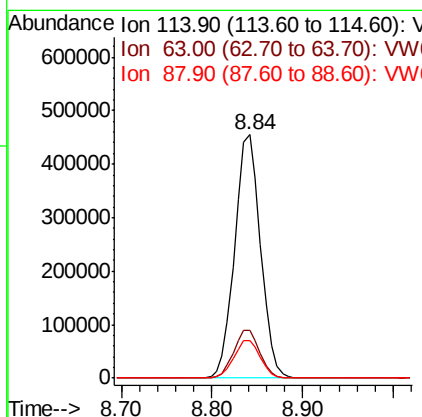
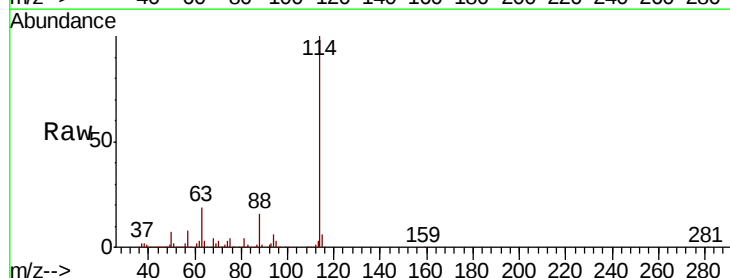
Instrument :
 MSVOA_W
 ClientSampleId :

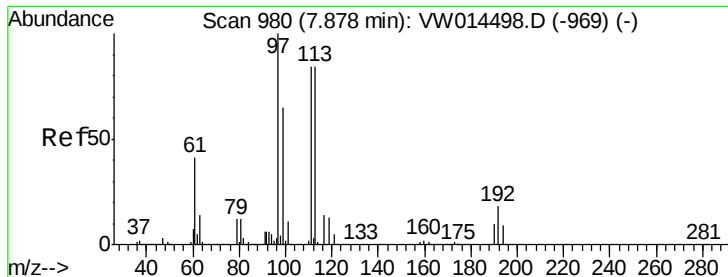
Tot Ion: 65 Resp: 241388
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW014567.D
 Acq: 08 Jan 2020 18:34

Tgt Ion: 114 Resp: 898952
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.4
 88 15.6 0.0 30.6

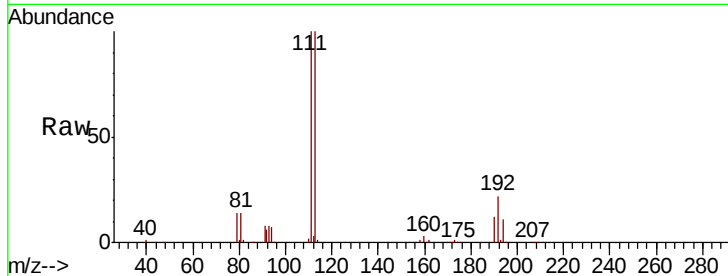




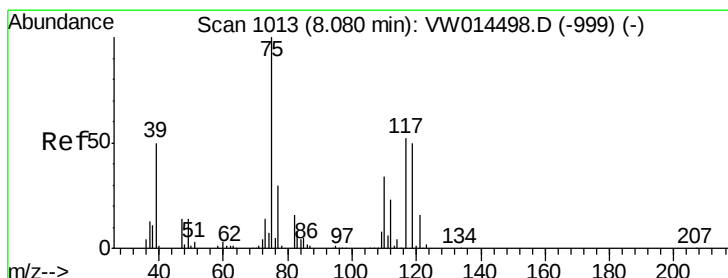
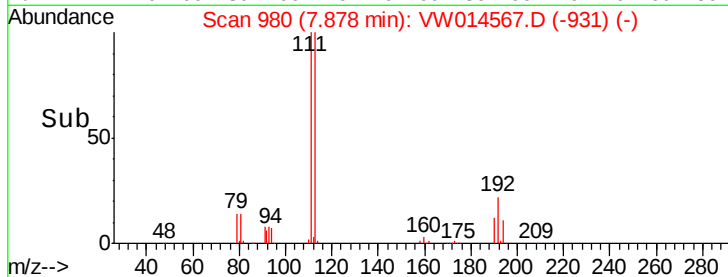
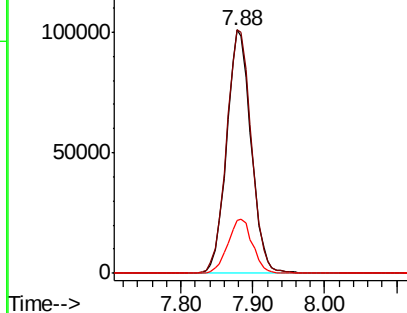
#35
 Dibromofluoromethane
 Concen: 46.217 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW014567.D
 Acq: 08 Jan 2020 18:34

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.4	122.2
192	22.7	17.8	26.8

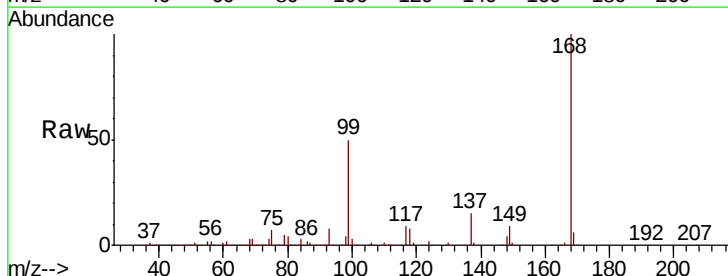


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

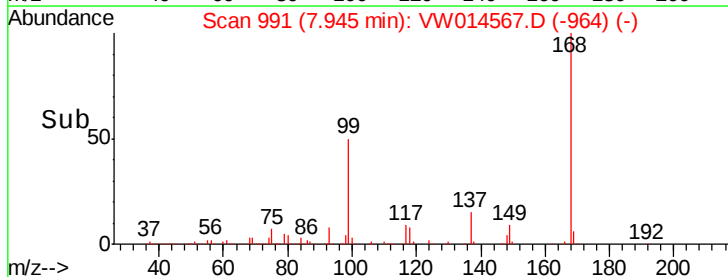
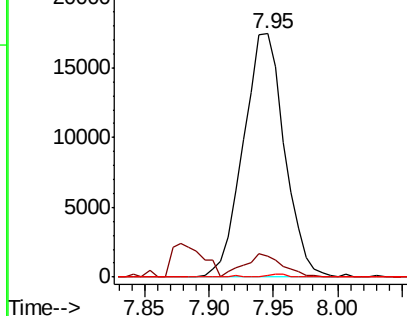


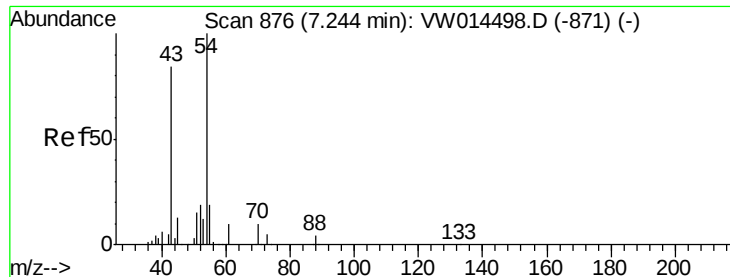
#36
 1,1-Dichloropropene
 Concen: 4.453 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW014567.D
 Acq: 08 Jan 2020 18:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.8	53.5#
77	0.6	24.7	37.1#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

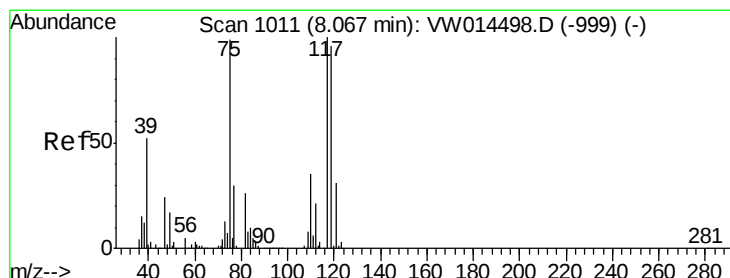
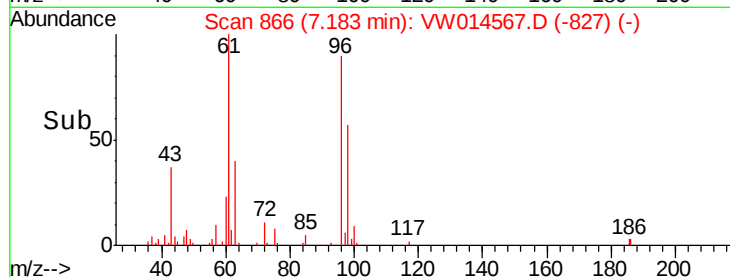
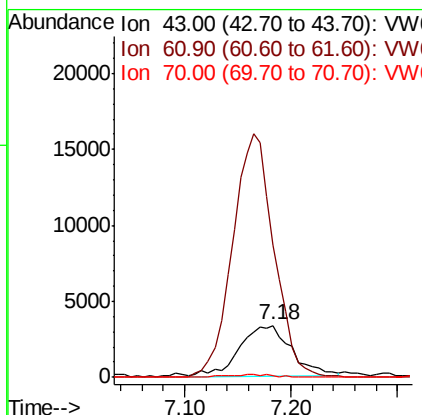
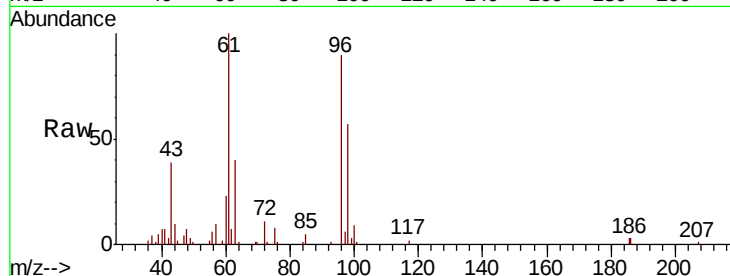




#37
Ethyl Acetate
Concen: 2.858 ug/l
RT: 7.18 min Scan# 866
Delta R.T. -0.06 min
Lab File: VW014567.D
Acq: 08 Jan 2020 18:34

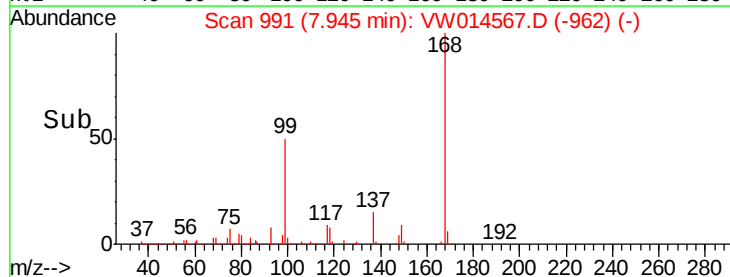
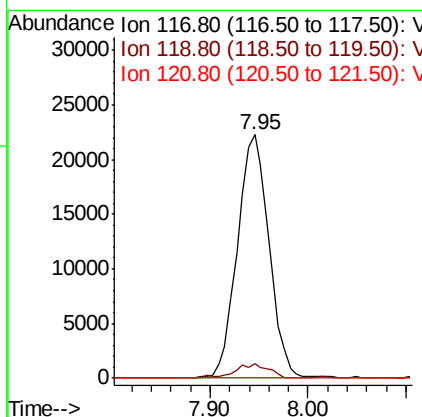
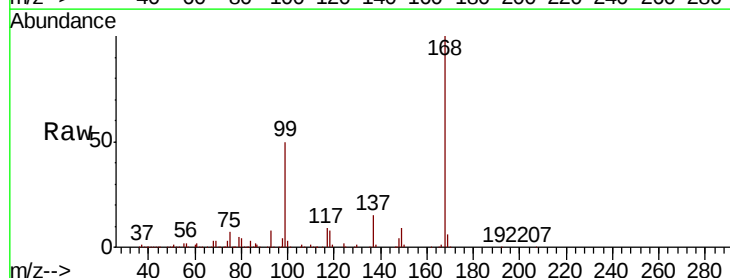
Instrument :
MSVOA_W
ClientSampleId :

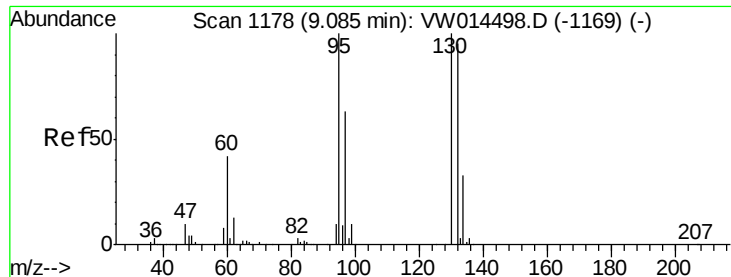
Tot Ion: 43 Resp: 11234
Ion Ratio Lower Upper
43 100
61 388.0 11.7 17.5#
70 4.3 9.0 13.6#



#38
Carbon Tetrachloride
Concen: 6.647 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW014567.D
Acq: 08 Jan 2020 18:34

Tgt Ion: 117 Resp: 49973
Ion Ratio Lower Upper
117 100
119 5.9 77.0 115.6#
121 0.0 24.6 36.8#





#44

Trichloroethene

Concen: 1.020 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW014567.D

Acq: 08 Jan 2020 18:34

Instrument :

MSVOA_W

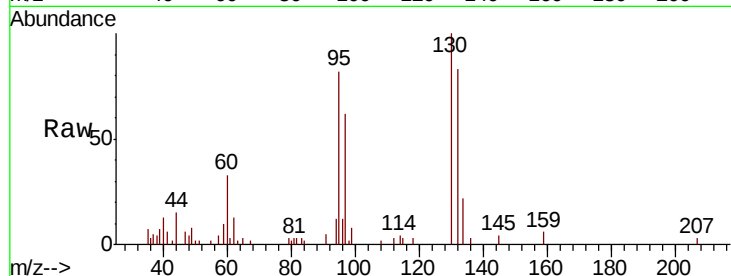
ClientSampleId :

Tot Ion:130 Resp: 6765

Ion Ratio Lower Upper

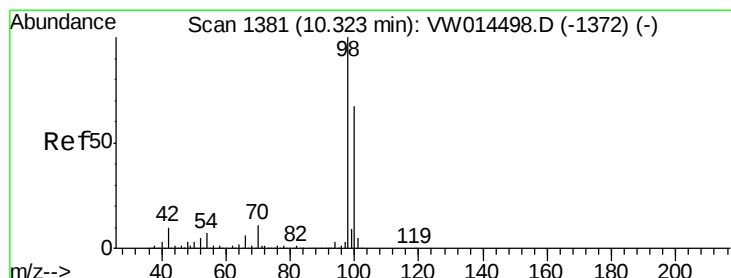
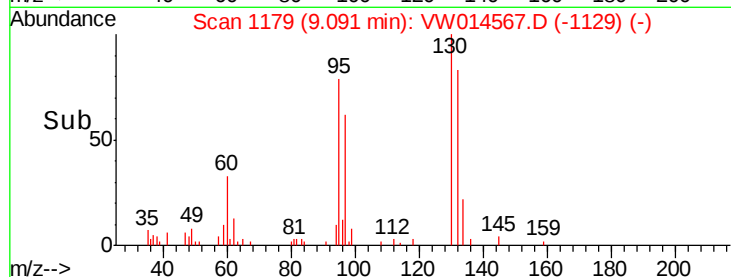
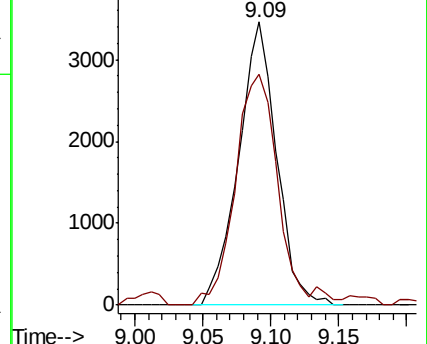
130 100

95 81.8 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): VW

Ion 94.90 (94.60 to 95.60): VW



#50

Toluene-d8

Concen: 36.600 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW014567.D

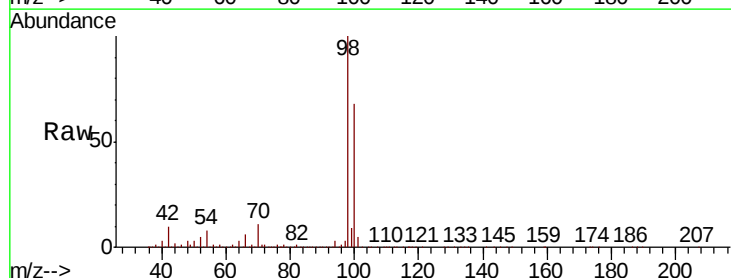
Acq: 08 Jan 2020 18:34

Tgt Ion: 98 Resp: 784728

Ion Ratio Lower Upper

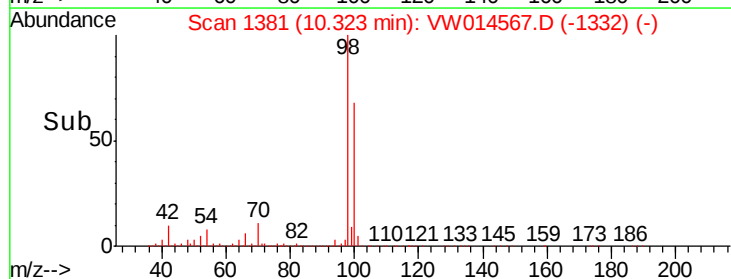
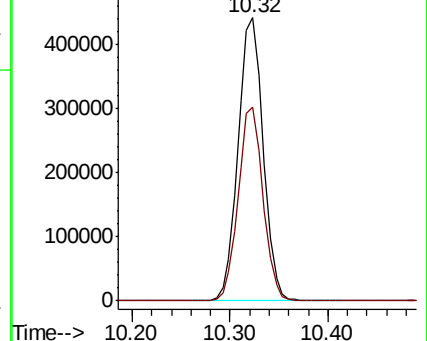
98 100

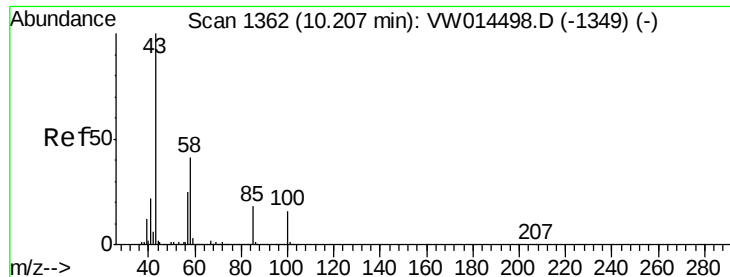
100 67.6 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.110 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014567.D

Acq: 08 Jan 2020 18:34

Instrument :

MSVOA_W

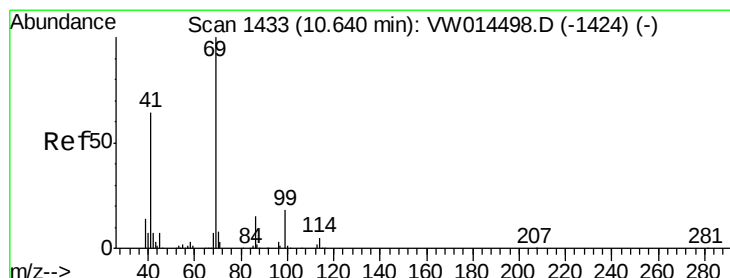
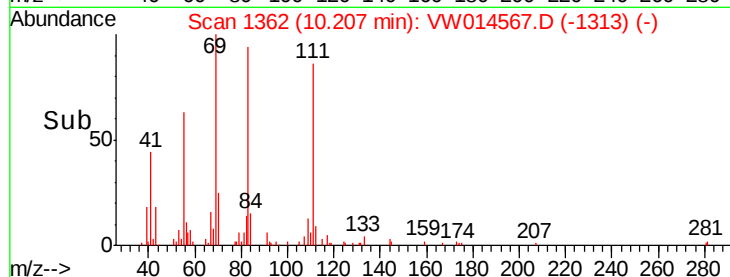
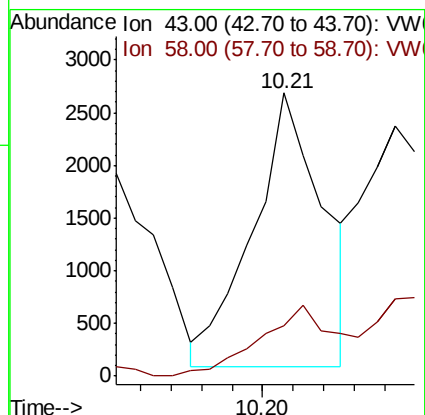
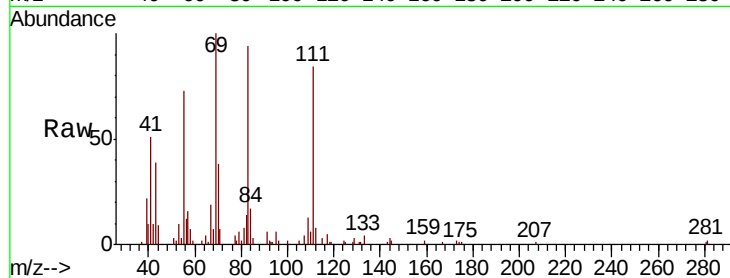
ClientSampled :

Tot Ion: 43 Resp: 4114

Ion Ratio Lower Upper

43 100

58 29.4 32.7 49.1#



#56

Ethyl methacrylate

Concen: 6.462 ug/l

RT: 10.62 min Scan# 1430

Delta R.T. -0.02 min

Lab File: VW014567.D

Acq: 08 Jan 2020 18:34

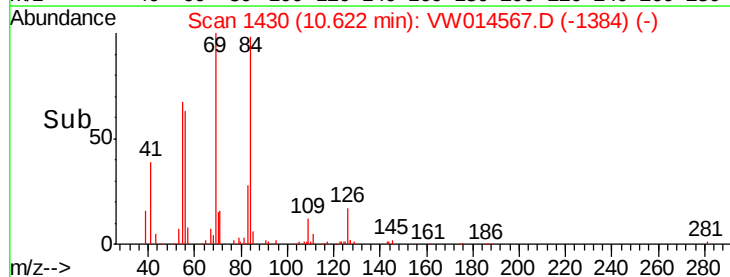
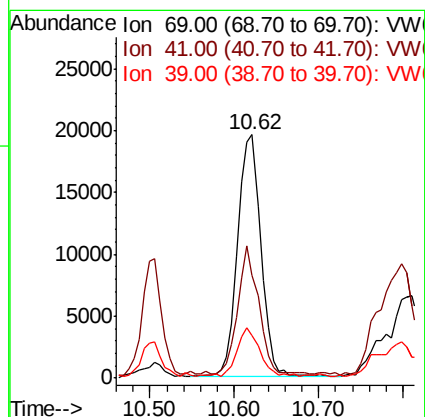
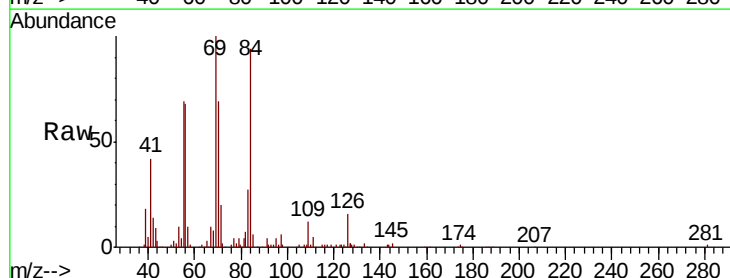
Tgt Ion: 69 Resp: 36433

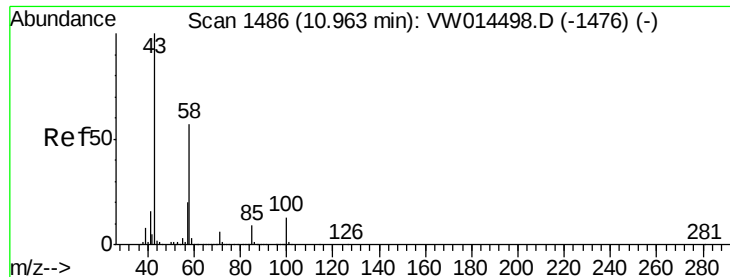
Ion Ratio Lower Upper

69 100

41 46.5 51.3 76.9#

39 19.8 21.0 31.6#

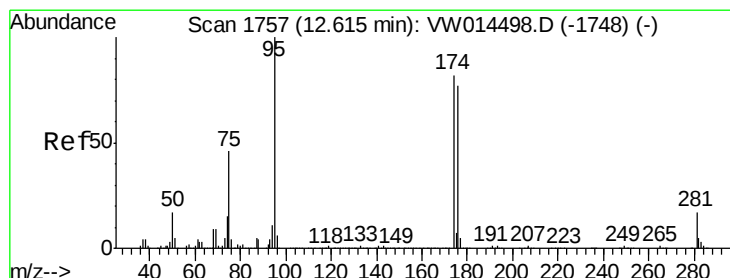
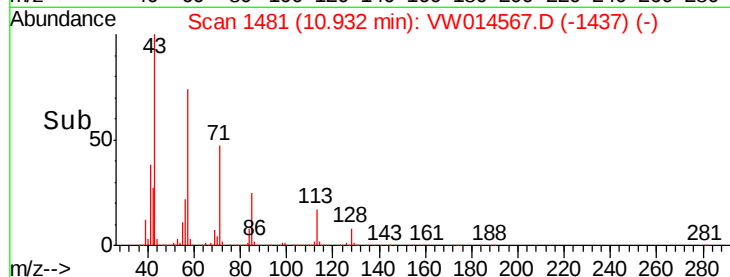
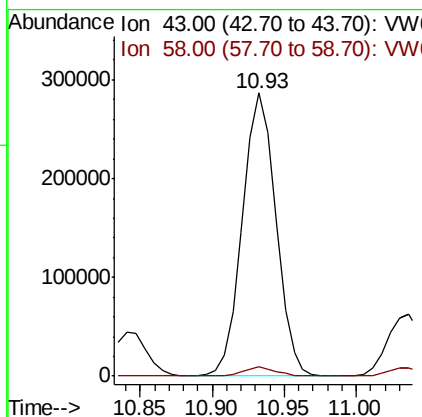
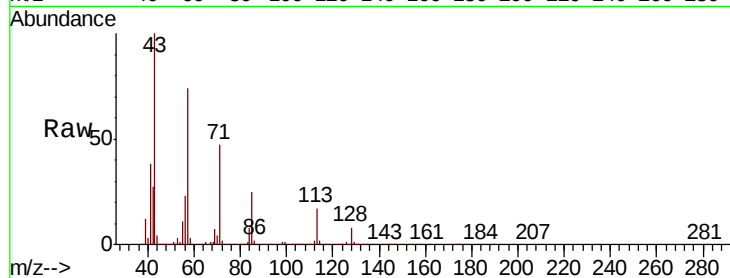




#59
2-Hexanone
Concen: 180.595 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.03 min
Lab File: VW014567.D
Acq: 08 Jan 2020 18:34

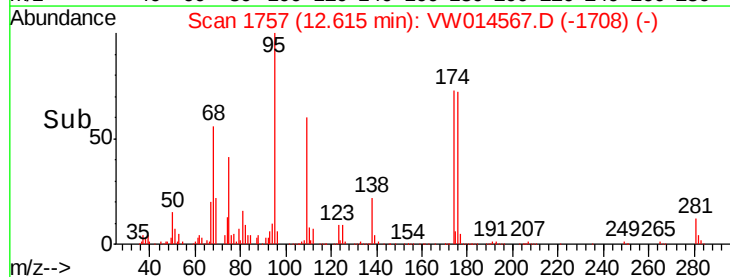
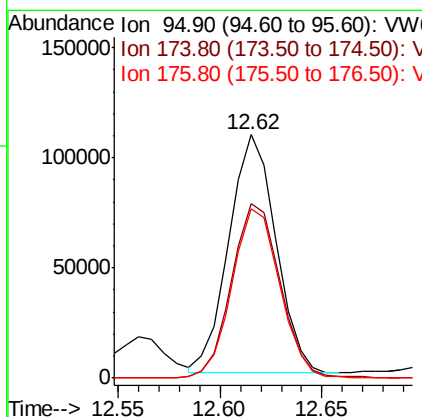
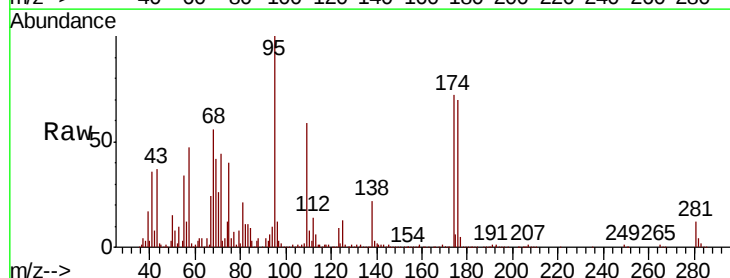
Instrument :
MSVOA_W
ClientSampleId :

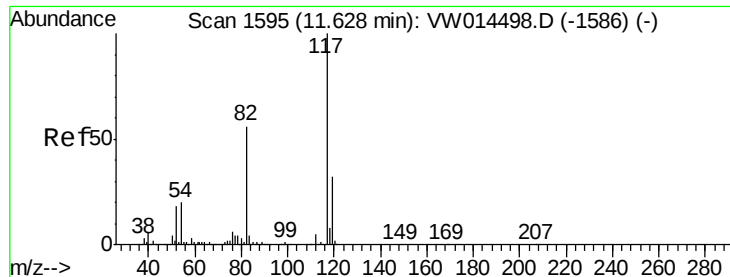
Tot Ion: 43 Resp: 461245
Ion Ratio Lower Upper
43 100
58 3.3 28.7 86.3#



#62
4-Bromofluorobenzene
Concen: 23.753 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW014567.D
Acq: 08 Jan 2020 18:34

Tgt Ion: 95 Resp: 172740
Ion Ratio Lower Upper
95 100
174 76.2 0.0 168.6
176 72.4 0.0 162.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VW014567.D

Acq: 08 Jan 2020 18:34

Instrument :

MSVOA_W

ClientSampleId :

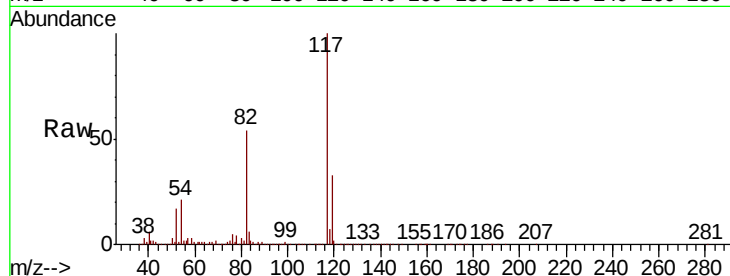
Tot Ion:117 Resp: 522611

Ion Ratio Lower Upper

117 100

82 54.3 44.6 67.0

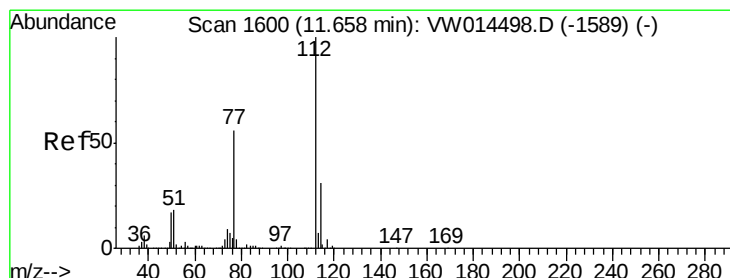
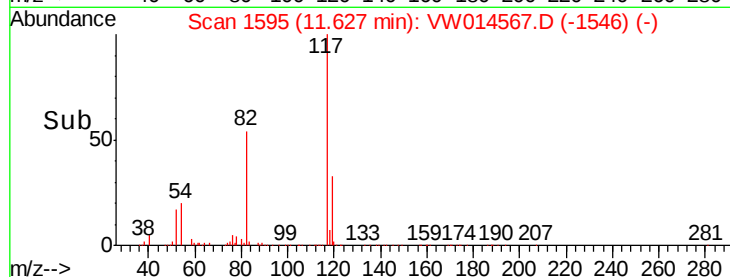
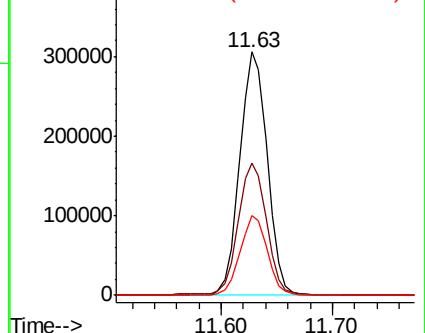
119 32.4 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#65

Chlorobenzene

Concen: 1.493 ug/l

RT: 11.65 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VW014567.D

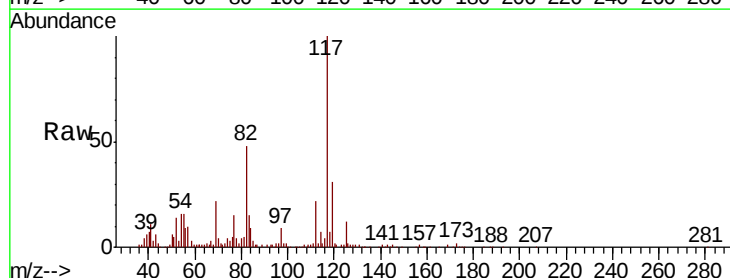
Acq: 08 Jan 2020 18:34

Tgt Ion:112 Resp: 15980

Ion Ratio Lower Upper

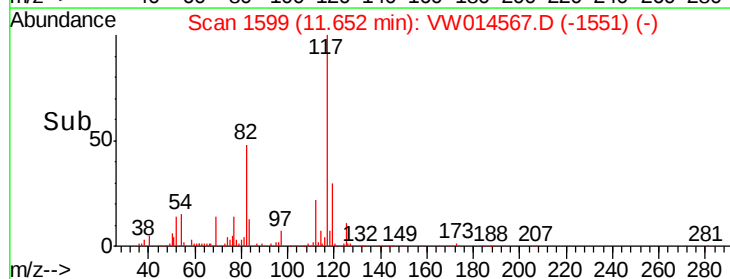
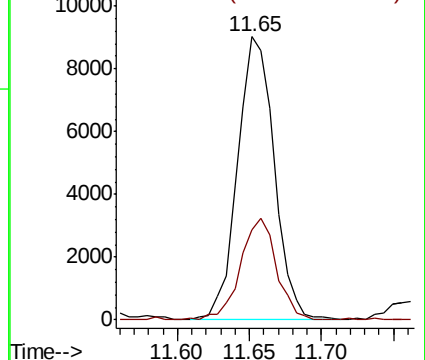
112 100

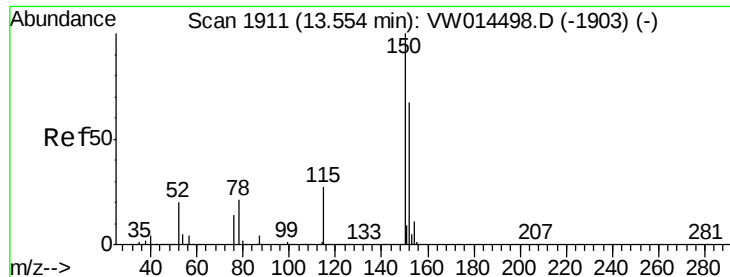
114 32.0 24.6 37.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



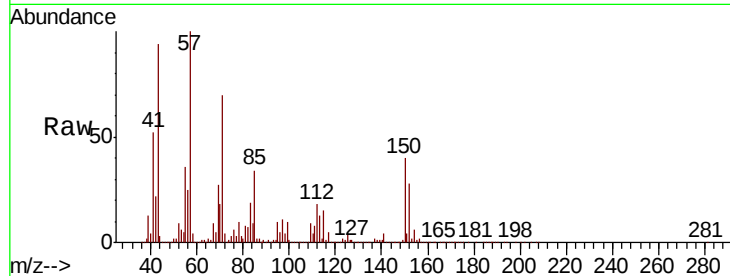


#72

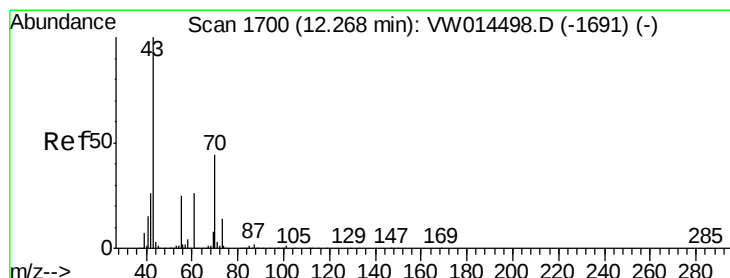
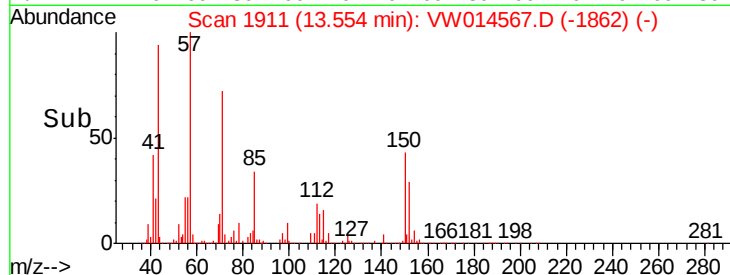
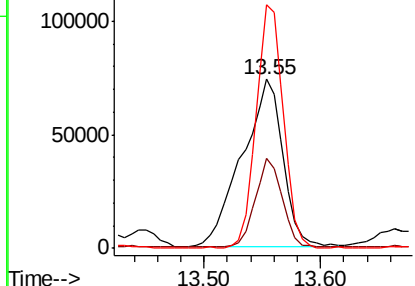
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.00 min
Lab File: VW014567.D
Acq: 08 Jan 2020 18:34

Instrument :
MSVOA_W
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	35.2	27.7	83.1
150	97.1	0.0	343.4



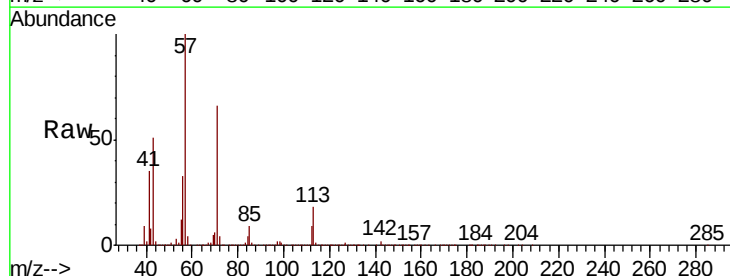
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



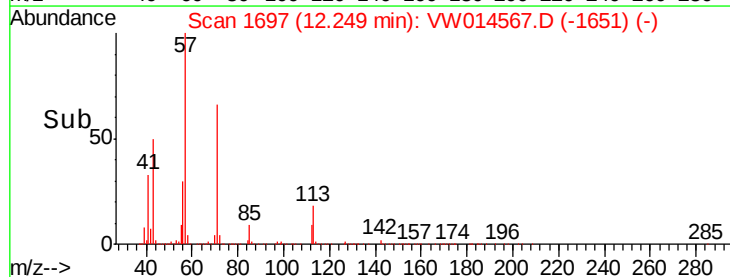
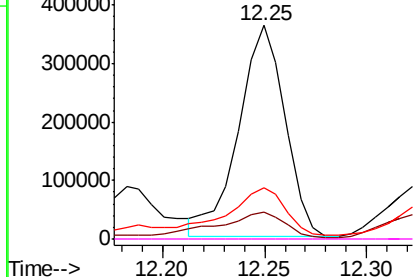
#74

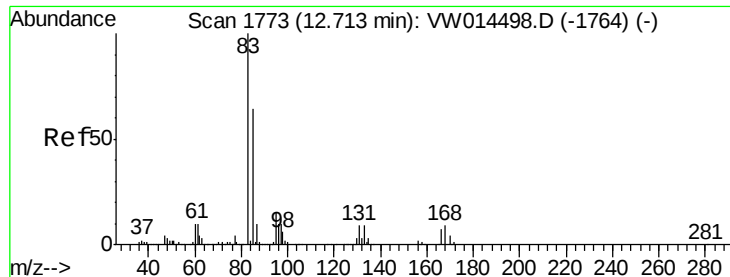
N-ethyl acetate
Concen: 193.255 ug/l
RT: 12.25 min Scan# 1697
Delta R.T. -0.02 min
Lab File: VW014567.D
Acq: 08 Jan 2020 18:34

Tgt Ion	Ratio	Lower	Upper
43	100		
70	17.3	36.5	54.7#
55	27.5	20.9	31.3
61	0.0	20.7	31.1#



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: 7.504 ug/l

RT: 12.68 min Scan# 1768

Delta R.T. -0.03 min

Lab File: VW014567.D

Acq: 08 Jan 2020 18:34

Instrument :

MSVOA_W

ClientSampleId :

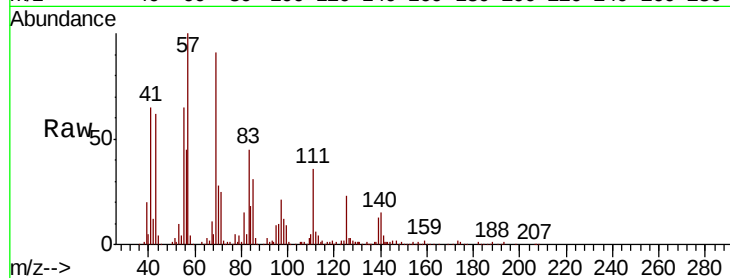
Tot Ion: 83 Resp: 17917

Ion Ratio Lower Upper

83 100

131 4.9 5.1 15.4#

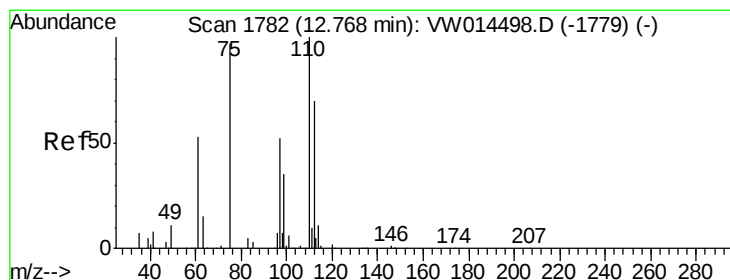
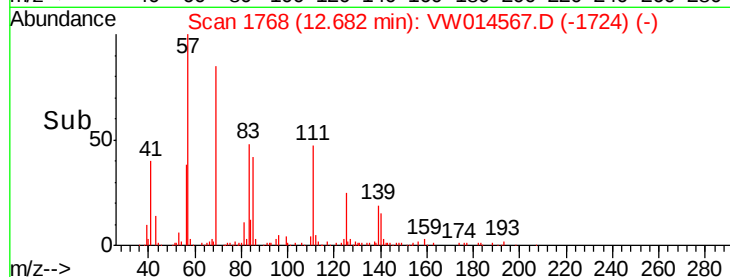
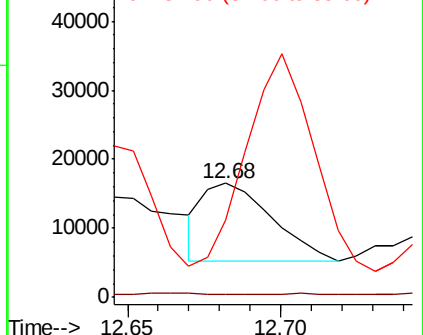
85 0.0 31.9 95.7#



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: 41.951 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW014567.D

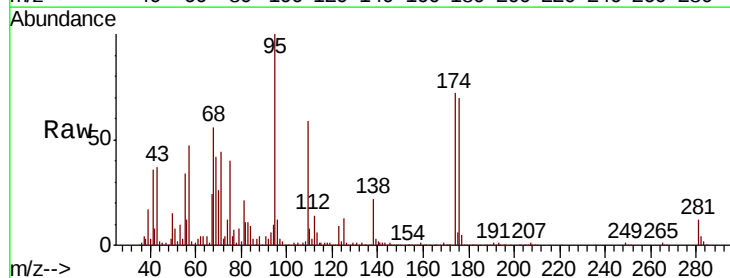
Acq: 08 Jan 2020 18:34

Tgt Ion: 75 Resp: 71507

Ion Ratio Lower Upper

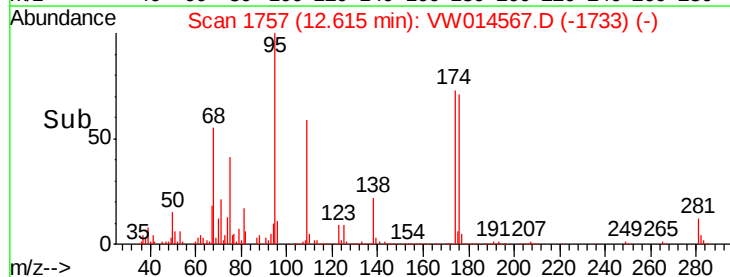
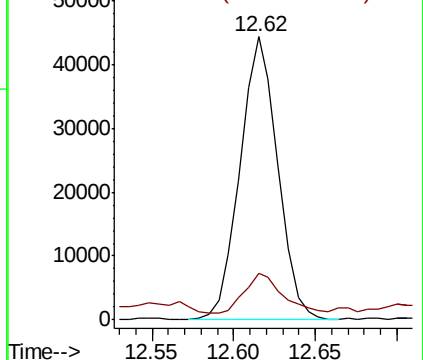
75 100

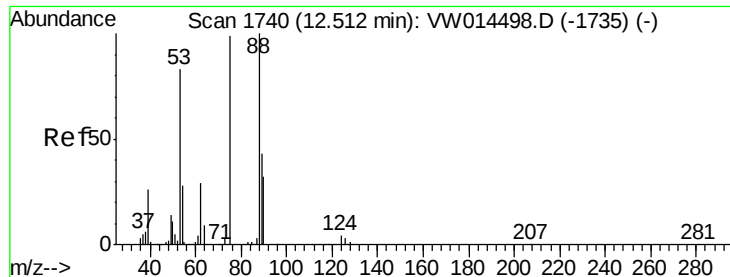
77 13.6 0.0 0.0#



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: 93.468 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW014567.D

Acq: 08 Jan 2020 18:34

Instrument :

MSVOA_W

ClientSampled :

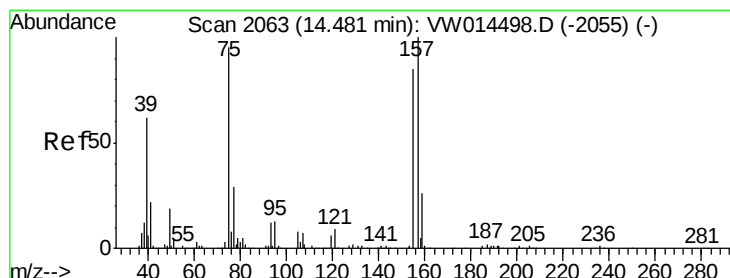
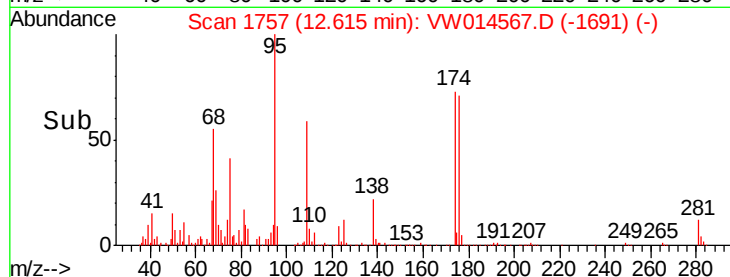
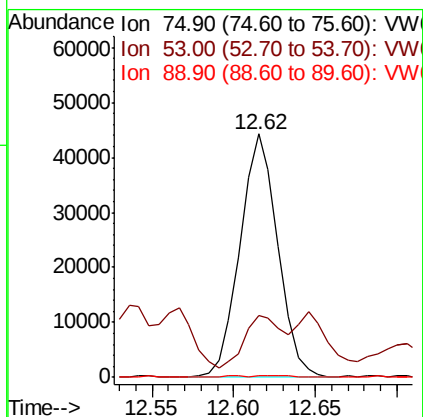
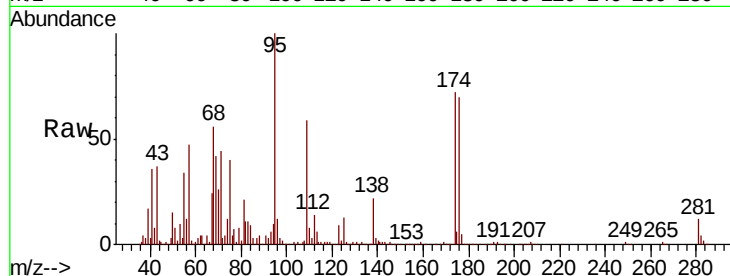
Tot Ion: 75 Resp: 71507

Ion Ratio Lower Upper

75 100

53 22.3 70.9 106.3#

89 0.8 35.8 53.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.230 ug/l

RT: 14.52 min Scan# 2070

Delta R.T. 0.04 min

Lab File: VW014567.D

Acq: 08 Jan 2020 18:34

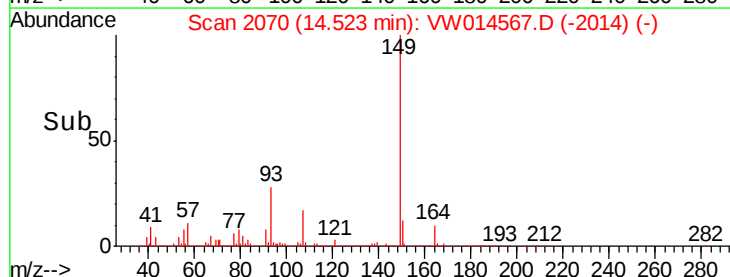
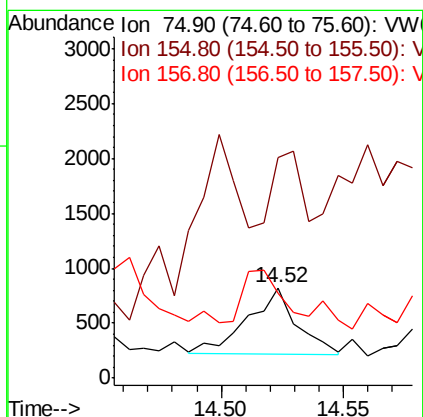
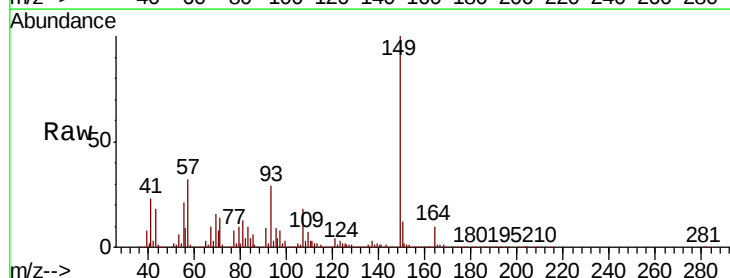
Tgt Ion: 75 Resp: 843

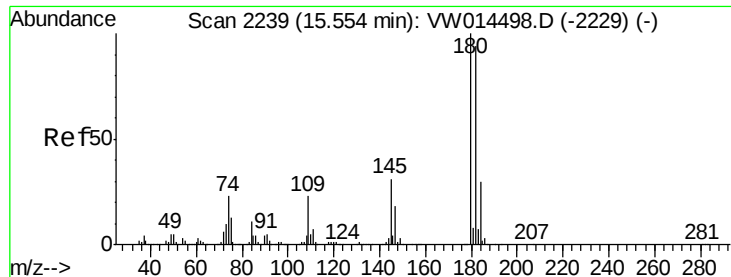
Ion Ratio Lower Upper

75 100

155 67.9 45.8 137.4

157 90.9 58.1 174.2





#96
 1,2,3-Trichlorobenzene
 Concen: 4.619 ug/l
 RT: 15.52 min Scan# 2234
 Delta R.T. -0.03 min
 Lab File: VW014567.D
 Acq: 08 Jan 2020 18:34

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	34.1	47.4	142.2#
145	31.2	15.5	46.5

