

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041520\
 Data File : VW015209.D
 Acq On : 15 Apr 2020 18:23
 Operator : SY/VA
 Sample : L2277-01
 Misc : 5.05G/5ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 16 04:26:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W041520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 15 14:44:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	138361	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	224778	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	183933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	66871	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	76475	58.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.90%	
35) Dibromofluoromethane	7.88	113	77291	62.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.36%	
50) Toluene-d8	10.32	98	298880	59.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.38%	
62) 4-Bromofluorobenzene	12.62	95	93180	52.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.38%	

Target Compounds

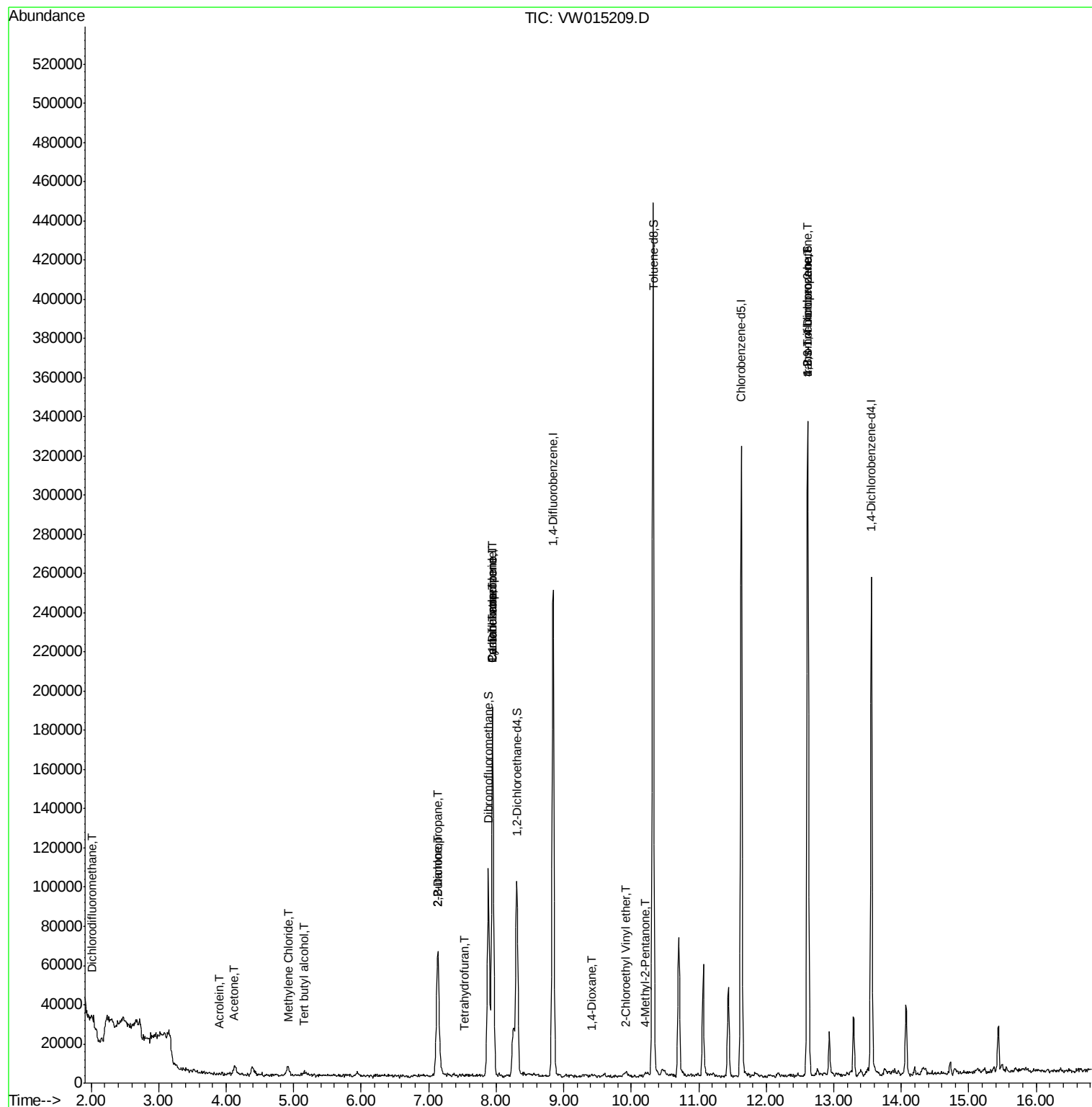
						Qvalue
2) Dichlorodifluoromethane	2.02	85	25	2.162	ug/l #	40
11) Tert butyl alcohol	5.16	59	3880	39.950	ug/l	99
13) Acrolein	3.89	56	389	3.853	ug/l #	15
16) Acetone	4.12	43	10660	45.746	ug/l #	85
20) Methylene Chloride	4.92	84	3066	1.900	ug/l	97
25) 2-Butanone	7.14	43	3054	8.190	ug/l #	62
26) 2,2-Dichloropropane	7.13	77	5030	2.955	ug/l #	53
29) Tetrahydrofuran	7.52	42	281	1.150	ug/l #	38
31) Cyclohexane	7.95	56	3695	1.352	ug/l #	3
36) 1,1-Dichloropropene	7.94	75	10801	5.379	ug/l #	51
38) Carbon Tetrachloride	7.94	117	13643	7.390	ug/l #	21
49) 1,4-Dioxane	9.40	88	38	3.416	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	1996	2.311	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.93	63	818	1.207	ug/l #	86
76) 1,2,3-Trichloropropane	12.62	75	47695	83.319	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	47695	161.201	ug/l #	15

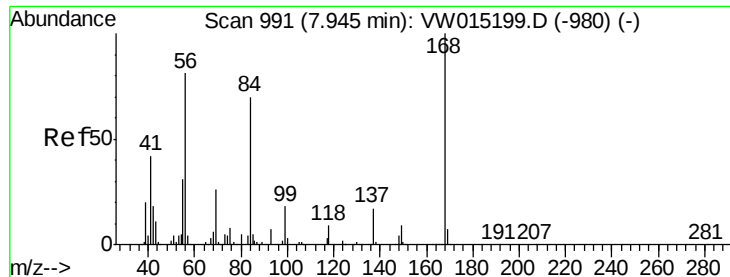
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 15 14:44:16 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: VW015209.D

Acq: 15 Apr 2020 18:23

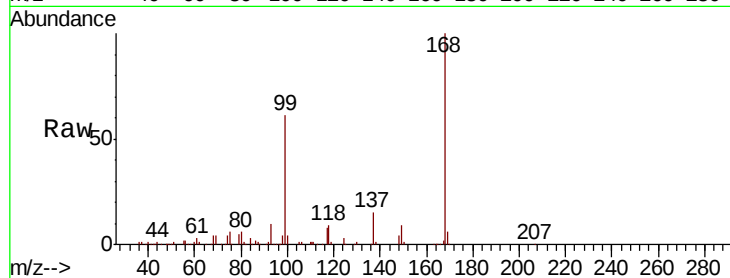
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 138361

Ion Ratio Lower Upper

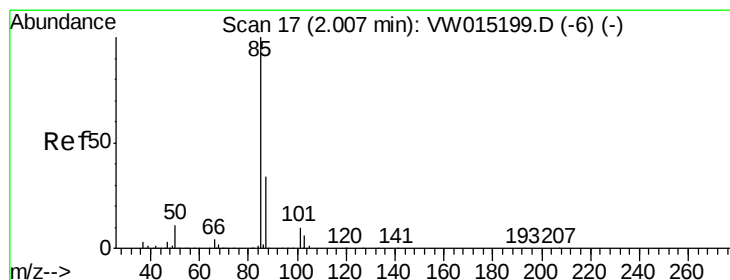
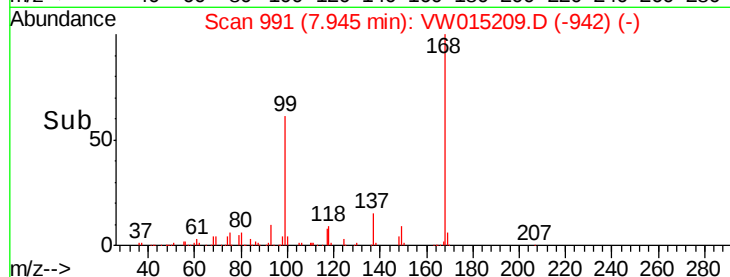
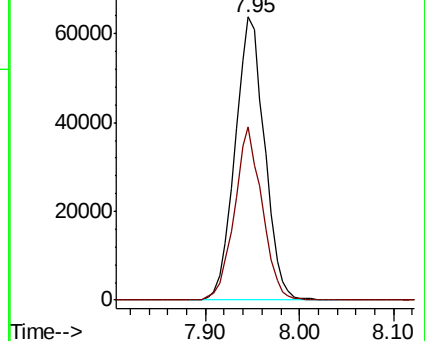
168 100

99 61.0 48.5 72.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 2.162 ug/l

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW015209.D

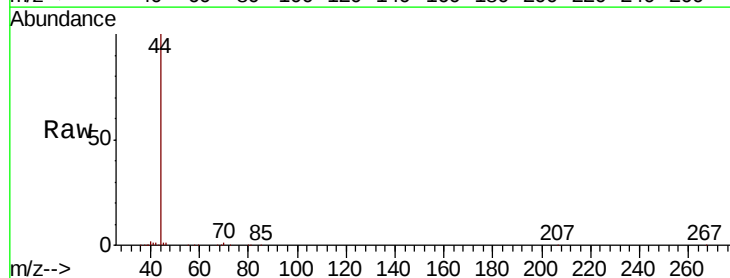
Acq: 15 Apr 2020 18:23

Tgt Ion: 85 Resp: 25

Ion Ratio Lower Upper

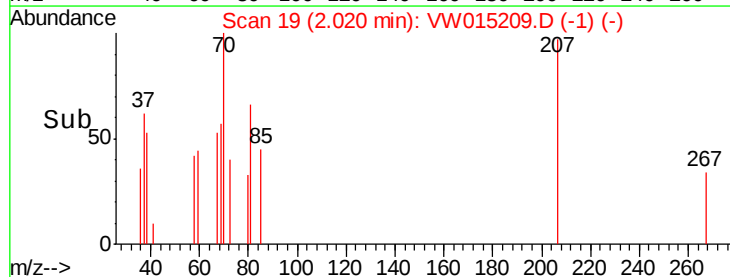
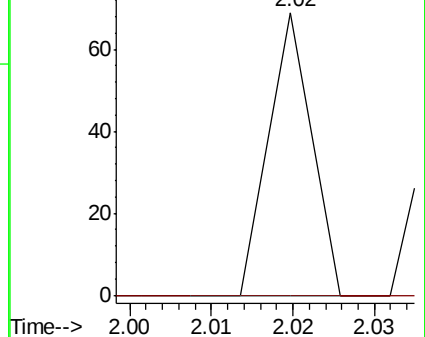
85 100

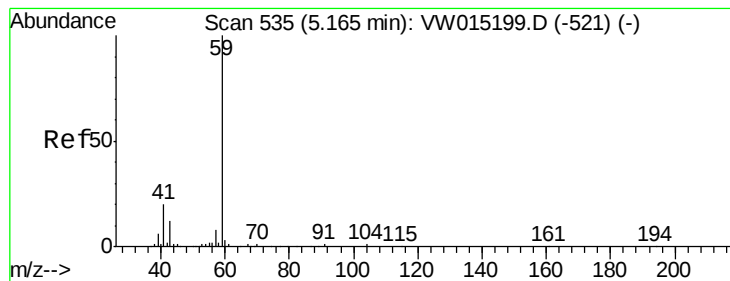
87 0.0 17.2 51.6#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#11

Tert butyl alcohol

Concen: 39.950 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW015209.D

Acq: 15 Apr 2020 18:23

Instrument :

MSVOA_W

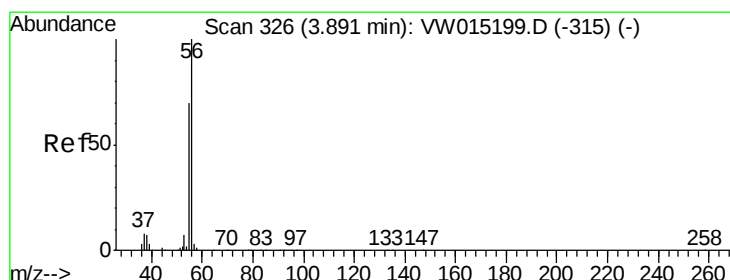
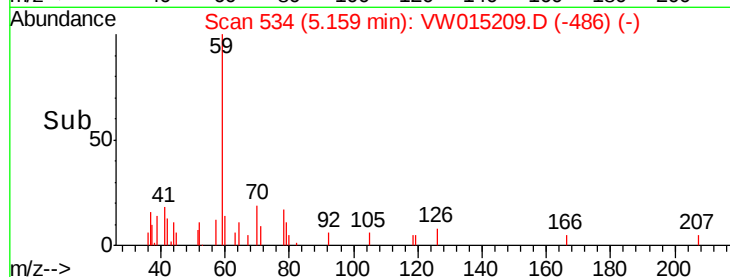
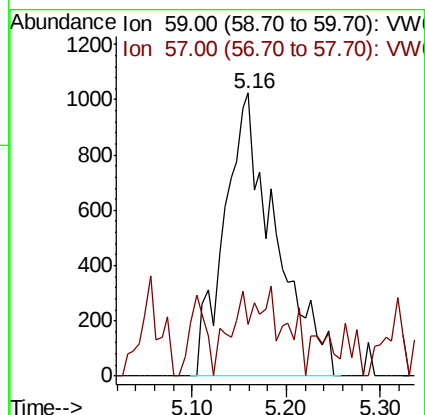
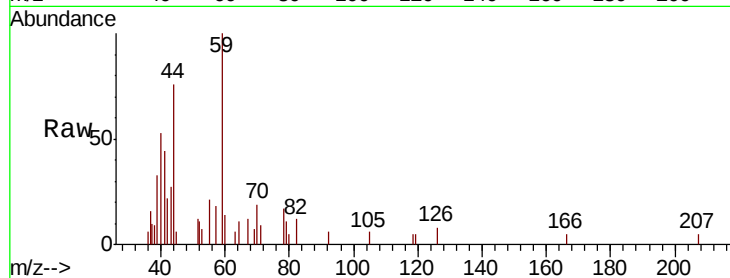
ClientSampled :

Tot Ion: 59 Resp: 3880

Ion Ratio Lower Upper

59 100

57 11.0 8.4 12.6



#13

Acrolein

Concen: 3.853 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW015209.D

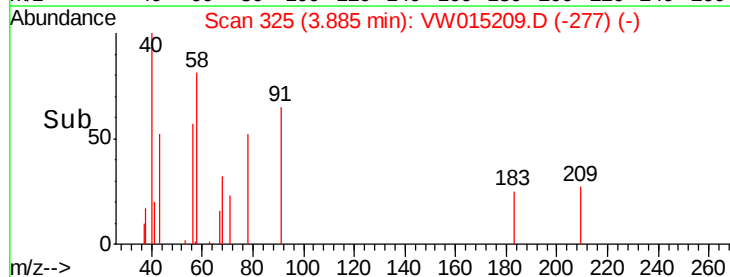
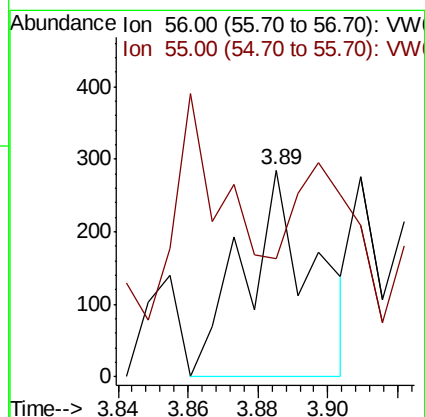
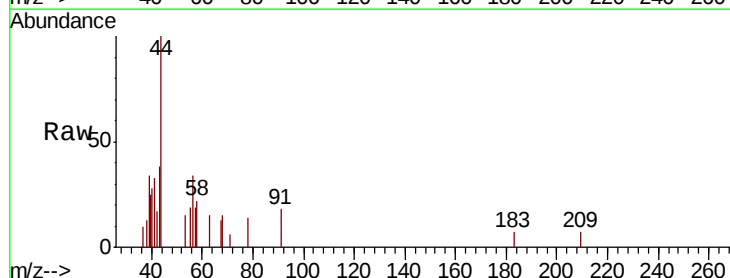
Acq: 15 Apr 2020 18:23

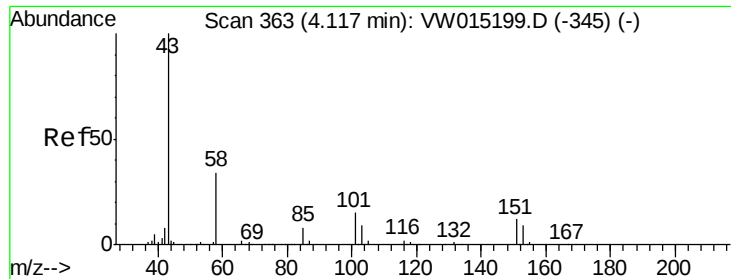
Tgt Ion: 56 Resp: 389

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.2#

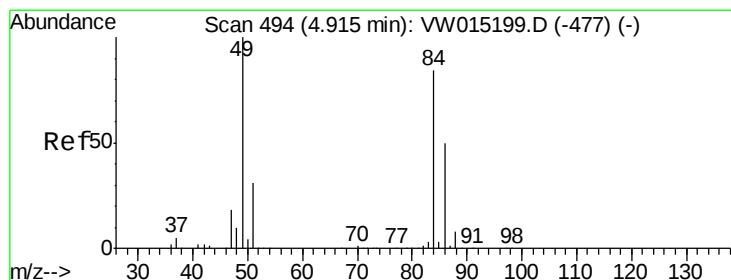
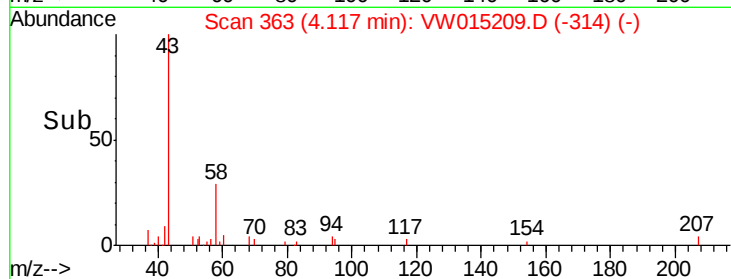
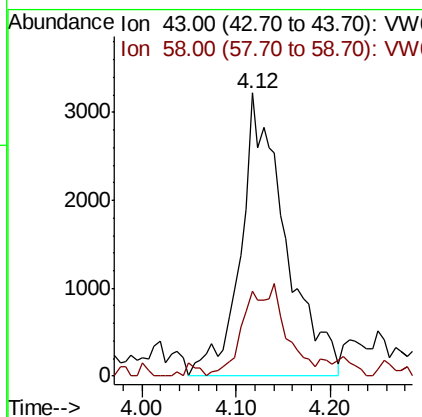
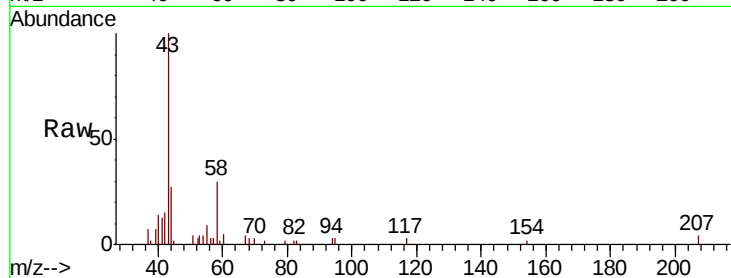




#16
Acetone
Concen: 45.746 ug/l
RT: 4.12 min Scan# 363
Delta R.T. 0.00 min
Lab File: VW015209.D
Acq: 15 Apr 2020 18:23

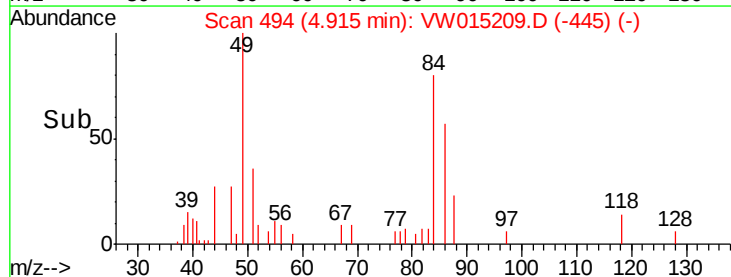
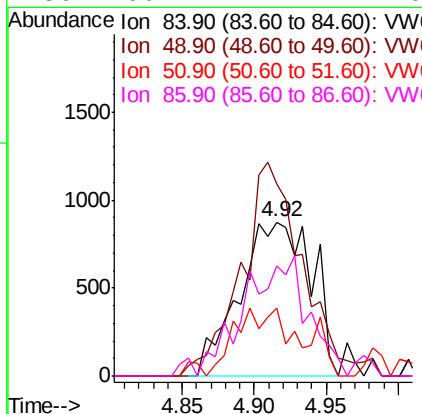
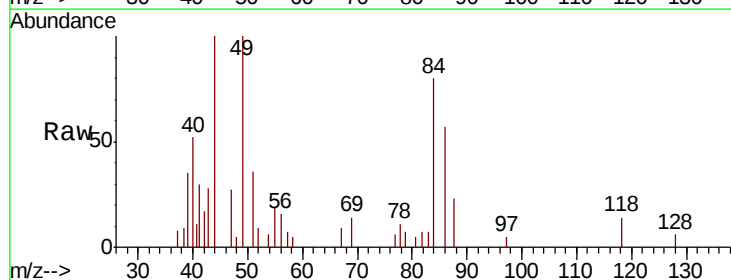
Instrument :
MSVOA_W
ClientSampleId :

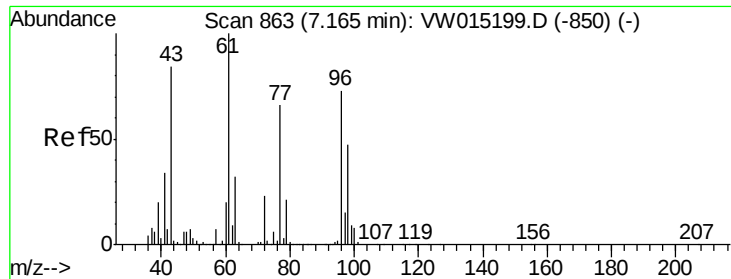
Tot Ion: 43 Resp: 10660
Ion Ratio Lower Upper
43 100
58 25.1 27.0 40.4#



#20
Methylene Chloride
Concen: 1.900 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW015209.D
Acq: 15 Apr 2020 18:23

Tgt Ion: 84 Resp: 3066
Ion Ratio Lower Upper
84 100
49 117.7 95.4 143.0
51 44.6 29.8 44.8
86 60.1 47.4 71.0





#25

2-Butanone

Concen: 8.190 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW015209.D

Acq: 15 Apr 2020 18:23

Instrument :

MSVOA_W

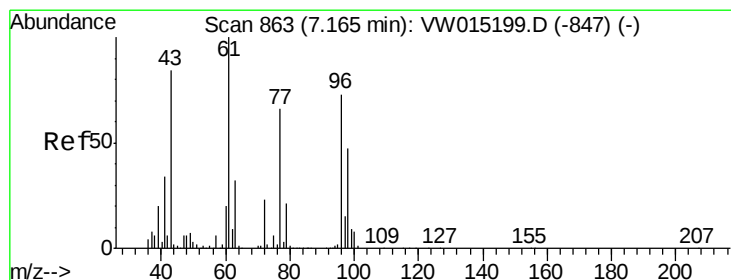
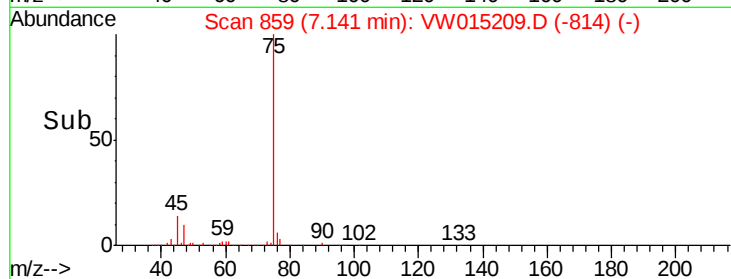
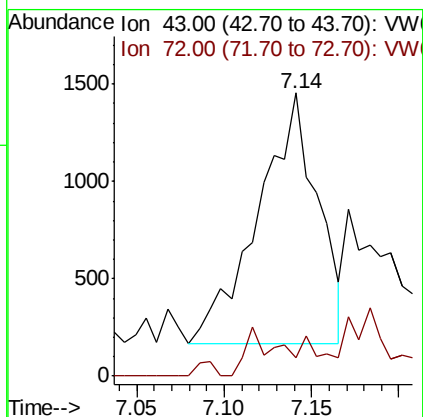
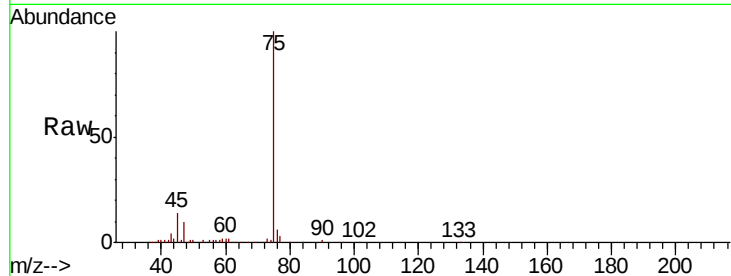
ClientSampleId :

Tot Ion: 43 Resp: 3054

Ion Ratio Lower Upper

43 100

72 7.4 21.6 32.4#



#26

2,2-Dichloropropane

Concen: 2.955 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW015209.D

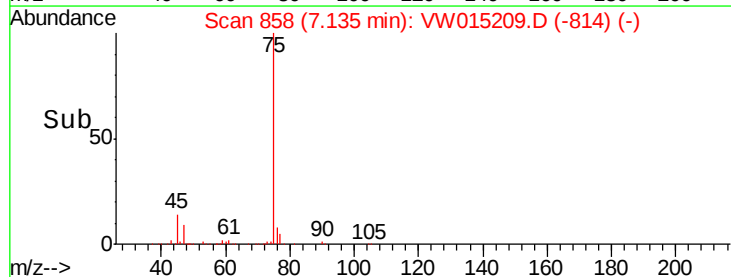
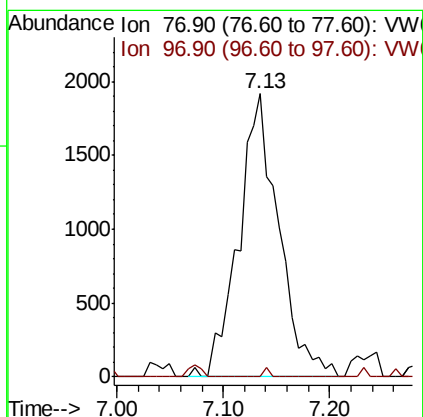
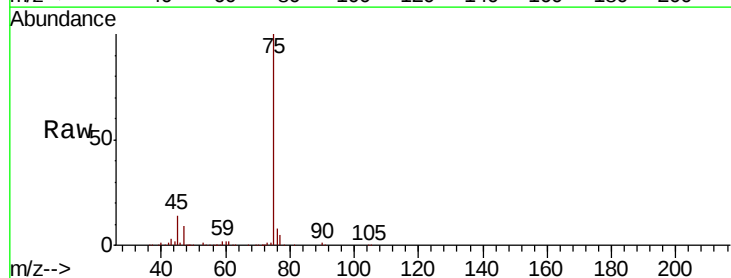
Acq: 15 Apr 2020 18:23

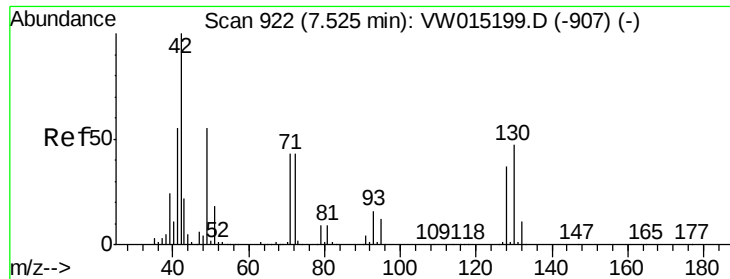
Tgt Ion: 77 Resp: 5030

Ion Ratio Lower Upper

77 100

97 0.5 11.9 35.5#





#29

Tetrahydrofuran

Concen: 1.150 ug/l

RT: 7.52 min Scan# 922

Delta R.T. 0.00 min

Lab File: VW015209.D

Acq: 15 Apr 2020 18:23

Instrument :

MSVOA_W

ClientSampled :

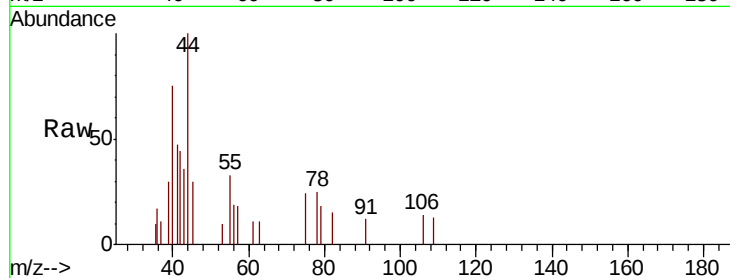
Tot Ion: 42 Resp: 281

Ion Ratio Lower Upper

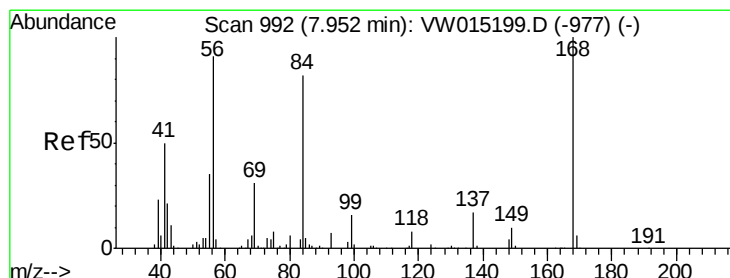
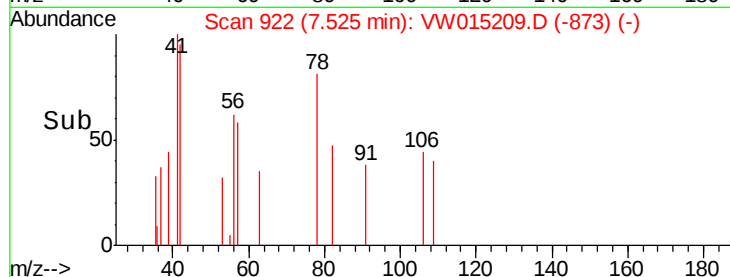
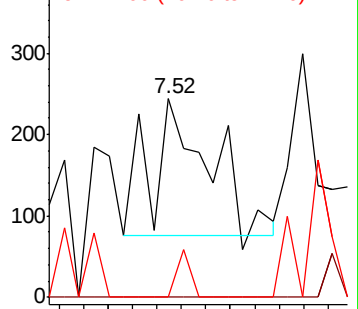
42 100

72 0.0 36.2 54.2#

71 7.8 34.2 51.4#



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.352 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW015209.D

Acq: 15 Apr 2020 18:23

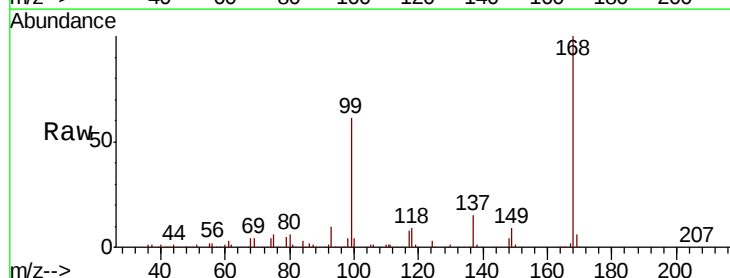
Tgt Ion: 56 Resp: 3695

Ion Ratio Lower Upper

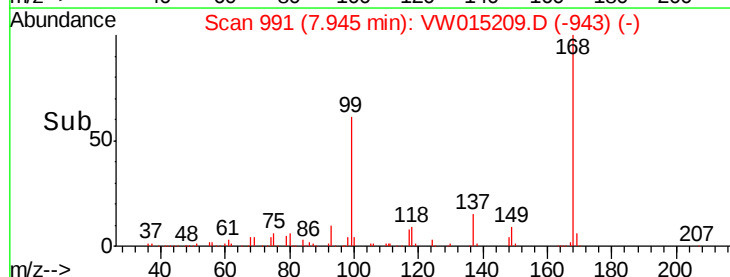
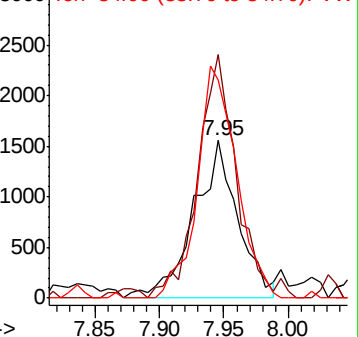
56 100

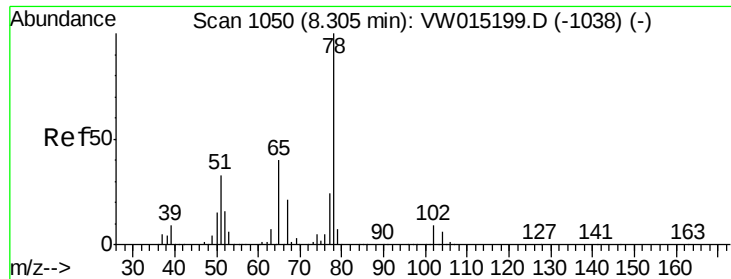
69 150.2 27.1 40.7#

84 143.4 71.9 107.9#



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

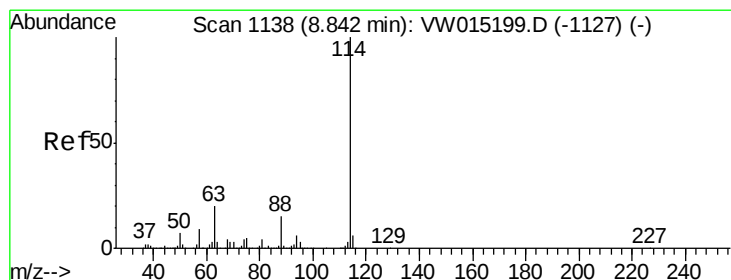
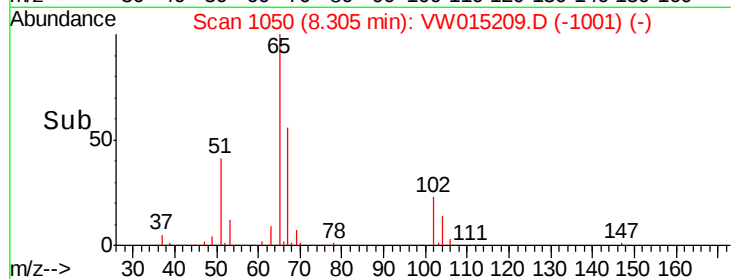
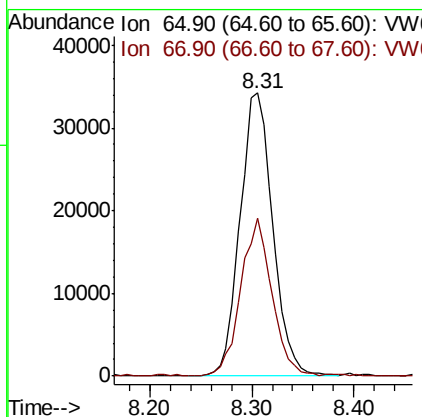
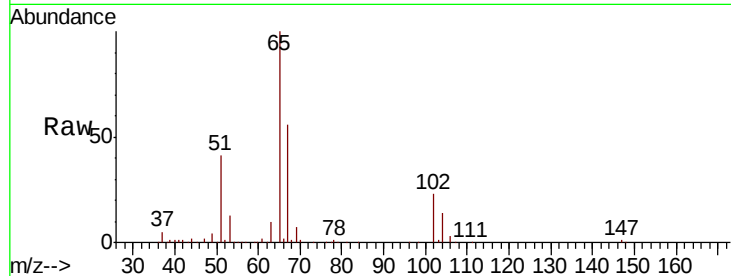




#33
 1,2-Dichloroethane-d4
 Concen: 58.454 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW015209.D
 Acq: 15 Apr 2020 18:23

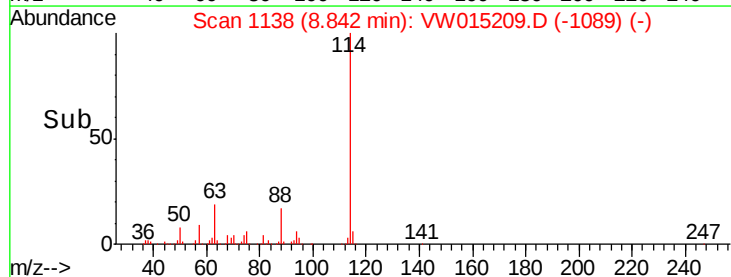
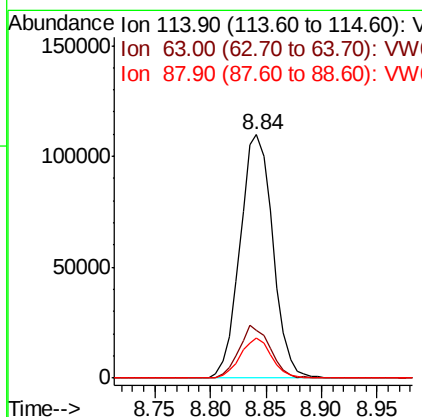
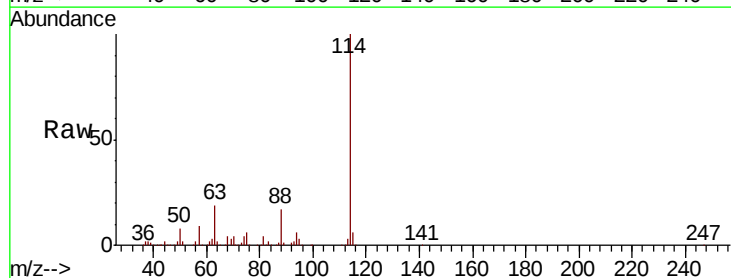
Instrument :
 MSVOA_W
 ClientSampleId :

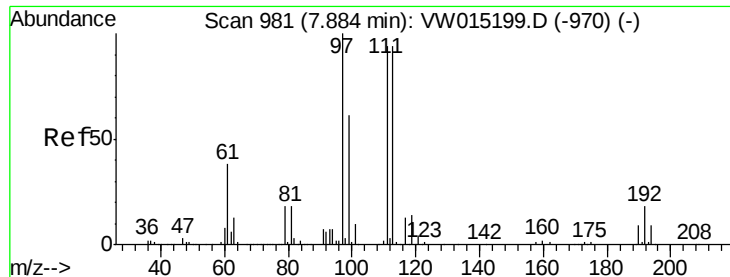
Tot Ion: 65 Resp: 76475
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW015209.D
 Acq: 15 Apr 2020 18:23

Tgt Ion: 114 Resp: 224778
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.8
 88 16.6 0.0 30.2





#35

Dibromofluoromethane

Concen: 62.179 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW015209.D

Acq: 15 Apr 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

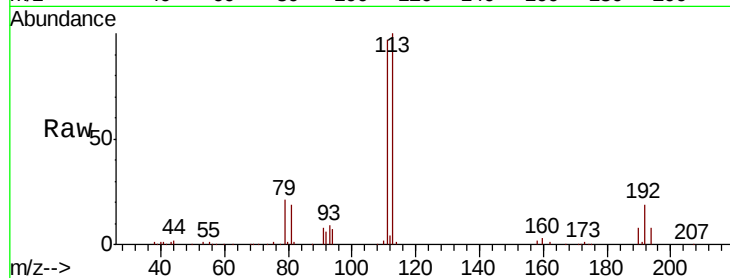
Tot Ion:113 Resp: 77291

Ion Ratio Lower Upper

113 100

111 100.6 83.0 124.4

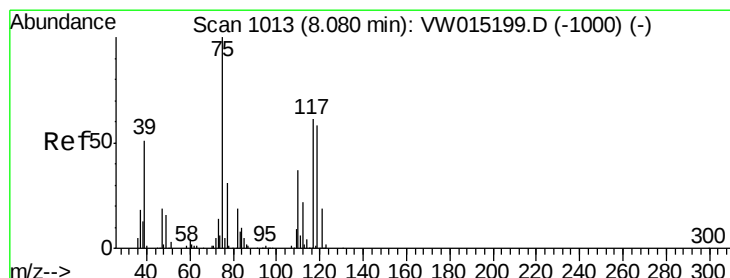
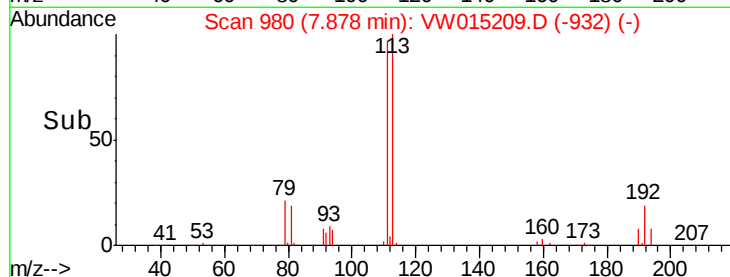
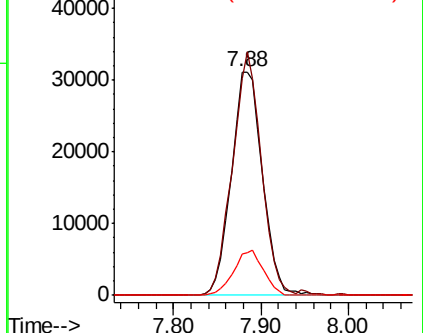
192 19.4 15.1 22.7



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: 5.379 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW015209.D

Acq: 15 Apr 2020 18:23

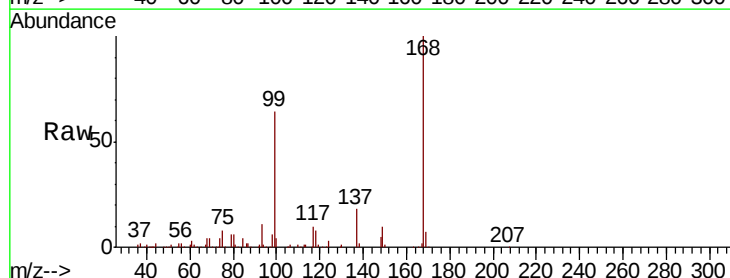
Tgt Ion: 75 Resp: 10801

Ion Ratio Lower Upper

75 100

110 10.2 18.2 54.6#

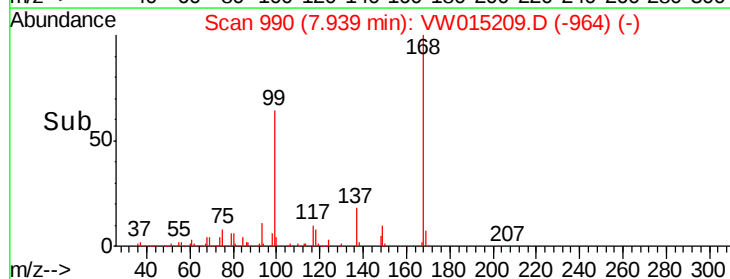
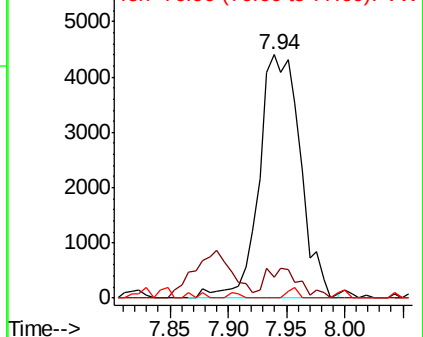
77 1.0 24.5 36.7#

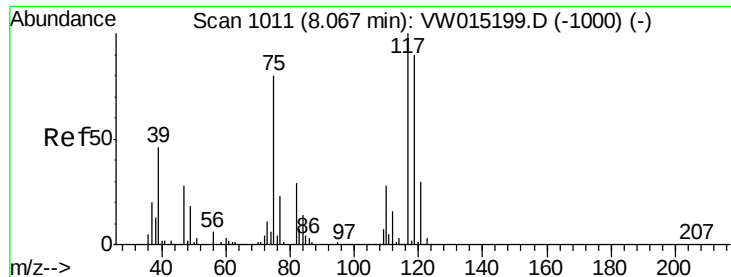


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 7.390 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW015209.D

Acq: 15 Apr 2020 18:23

Instrument :

MSVOA_W

ClientSampled :

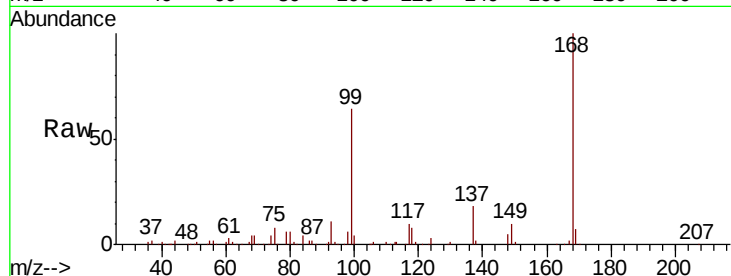
Tot Ion:117 Resp: 13643

Ion Ratio Lower Upper

117 100

119 7.4 72.3 108.5#

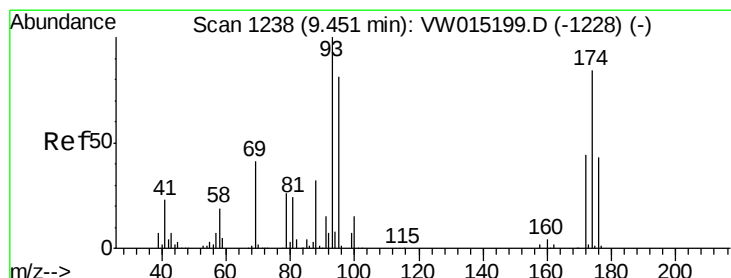
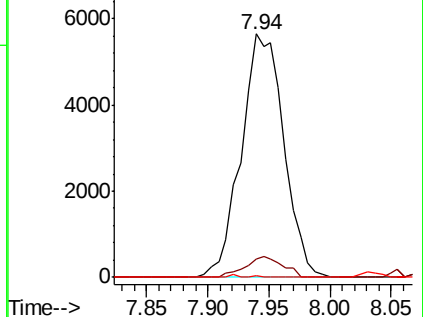
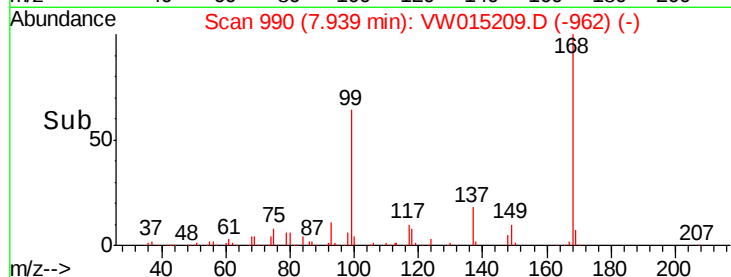
121 0.9 23.7 35.5#



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



#49

1,4-Dioxane

Concen: 3.416 ug/l

RT: 9.40 min Scan# 1230

Delta R.T. -0.05 min

Lab File: VW015209.D

Acq: 15 Apr 2020 18:23

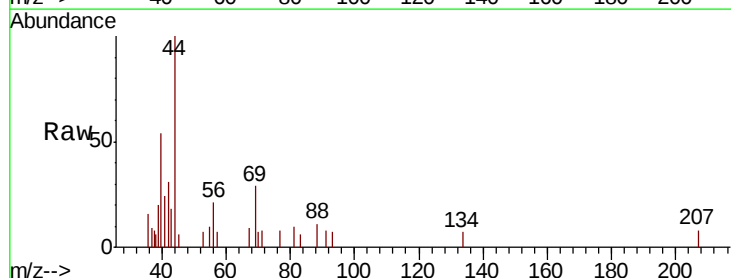
Tgt Ion: 88 Resp: 38

Ion Ratio Lower Upper

88 100

43 389.5 23.5 35.3#

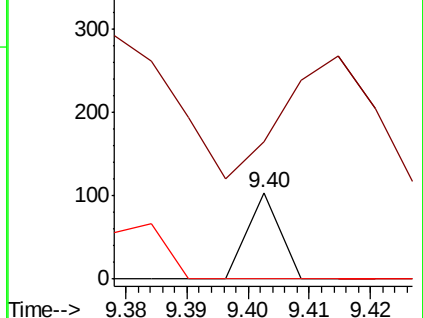
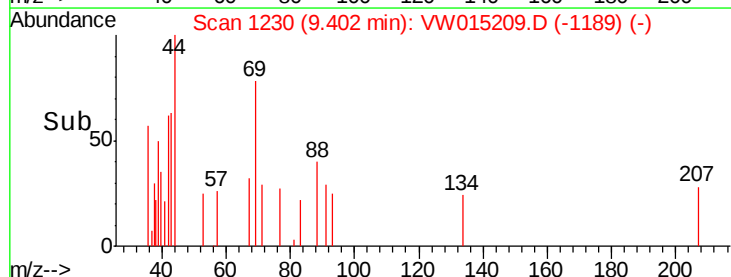
58 0.0 55.4 83.2#

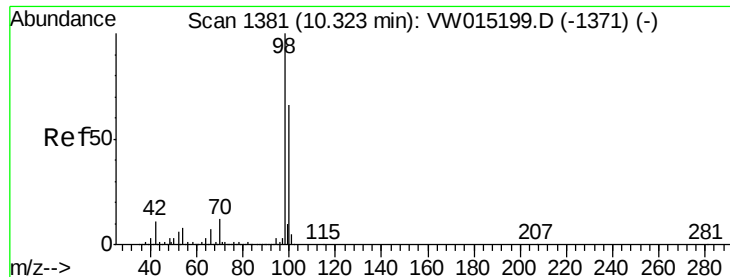


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 59.190 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW015209.D

Acq: 15 Apr 2020 18:23

Instrument :

MSVOA_W

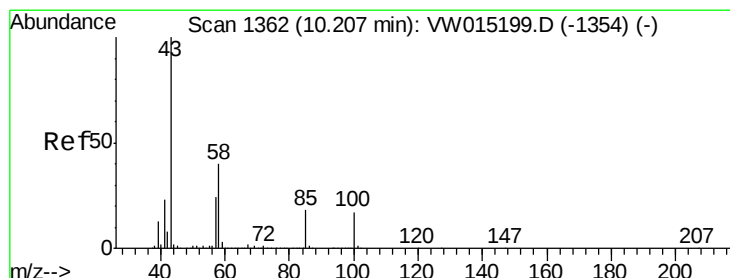
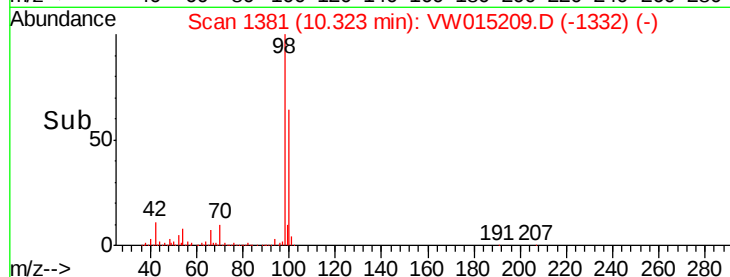
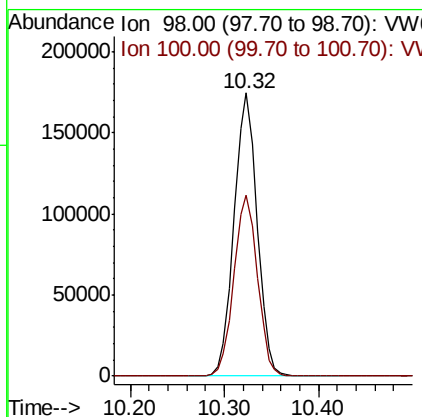
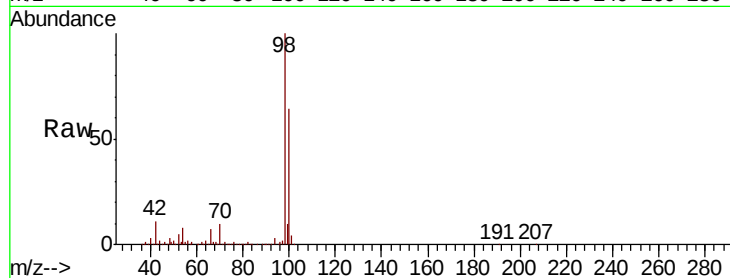
ClientSampleId :

Tot Ion: 98 Resp: 298880

Ion Ratio Lower Upper

98 100

100 65.3 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 2.311 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW015209.D

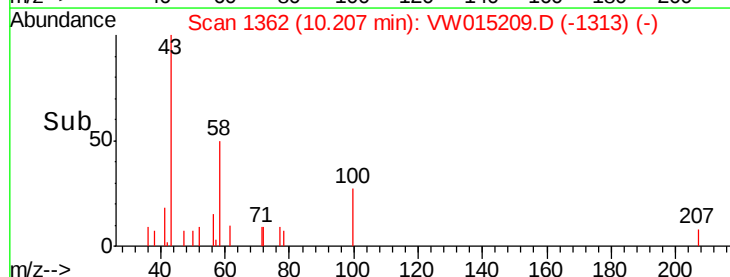
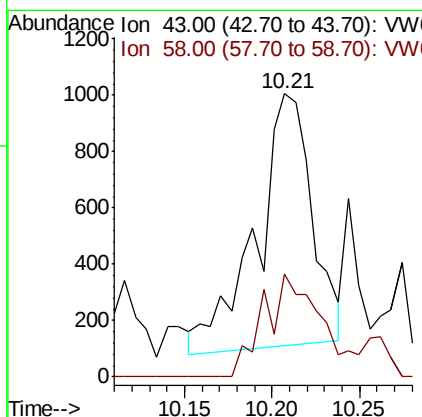
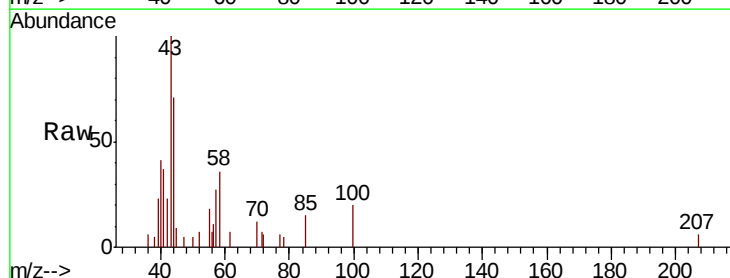
Acq: 15 Apr 2020 18:23

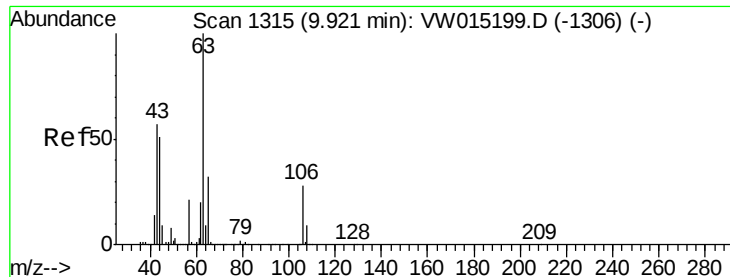
Tgt Ion: 43 Resp: 1996

Ion Ratio Lower Upper

43 100

58 42.1 32.3 48.5

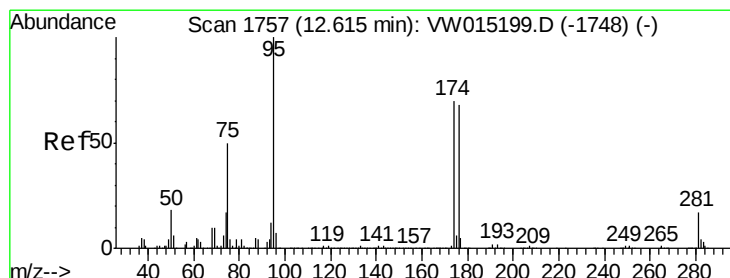
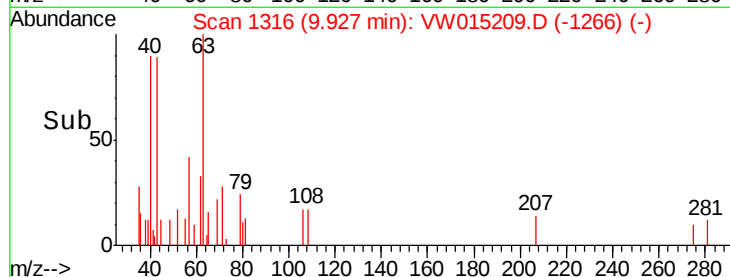
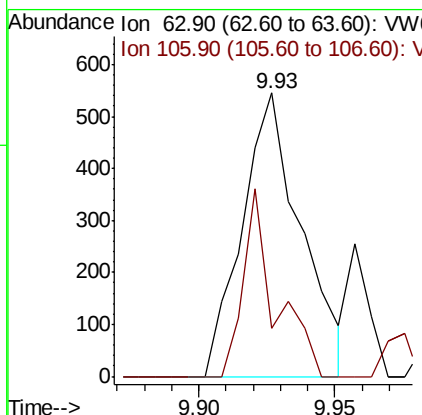
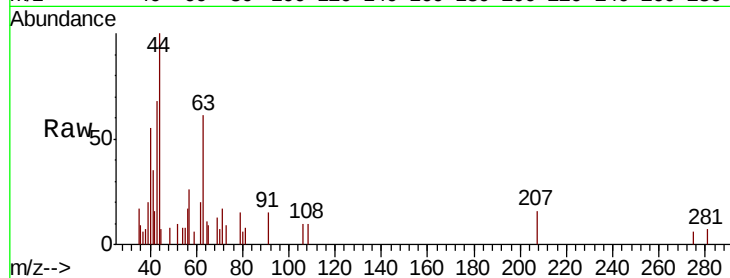




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.207 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VW015209.D
 Acq: 15 Apr 2020 18:23

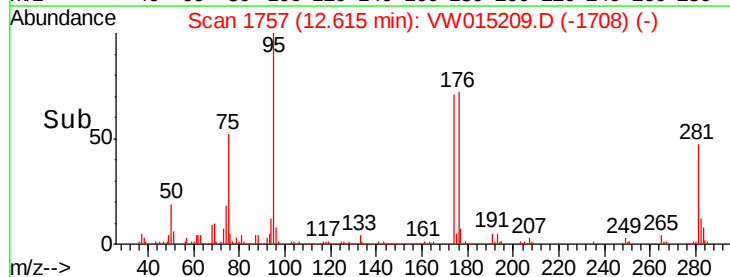
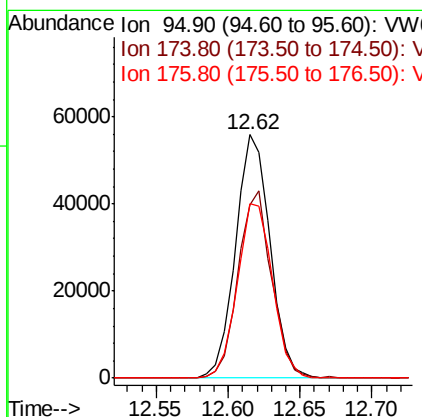
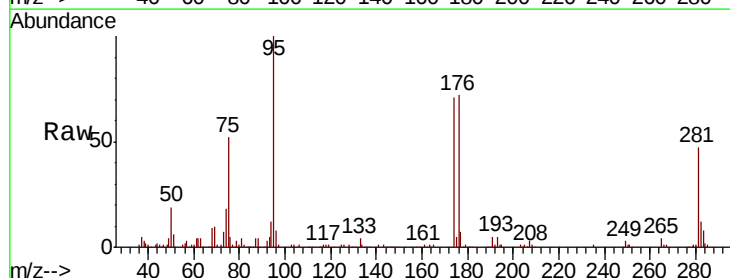
Instrument :
 MSVOA_W
 ClientSampleId :

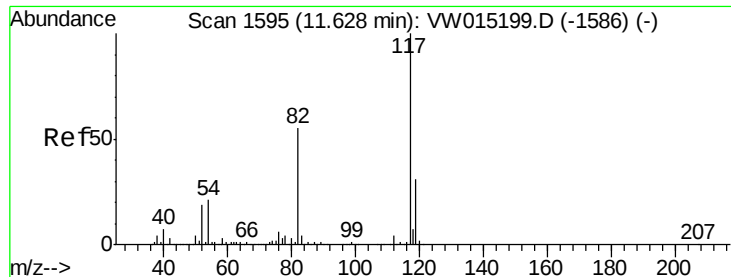
Tot Ion: 63 Resp: 818
 Ion Ratio Lower Upper
 63 100
 106 35.8 22.6 33.8#



#62
 4-Bromofluorobenzene
 Concen: 52.686 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VW015209.D
 Acq: 15 Apr 2020 18:23

Tgt Ion: 95 Resp: 93180
 Ion Ratio Lower Upper
 95 100
 174 74.4 0.0 144.4
 176 72.7 0.0 140.6

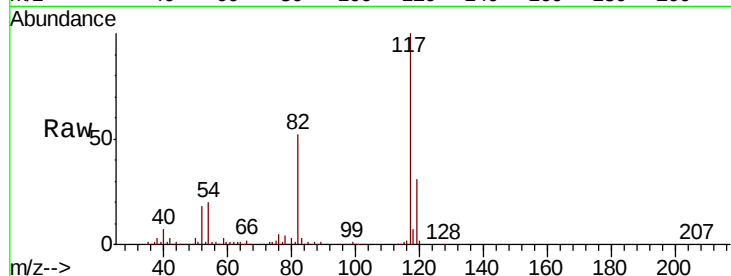




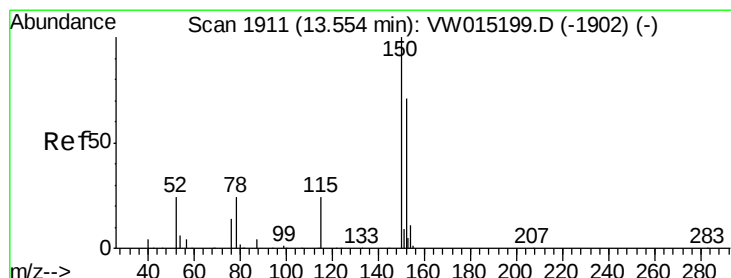
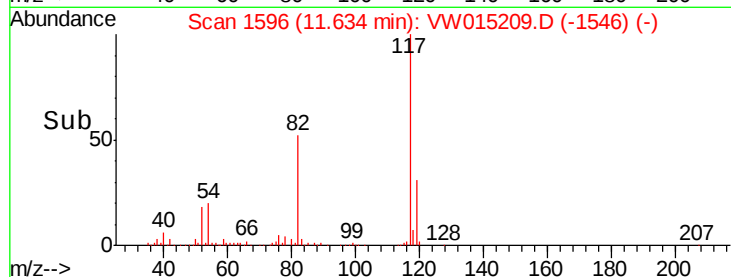
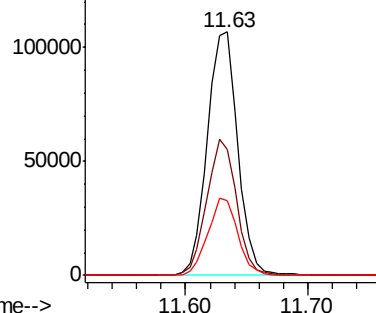
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW015209.D
Acq: 15 Apr 2020 18:23

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.8	44.1	66.1
119	30.7	24.9	37.3

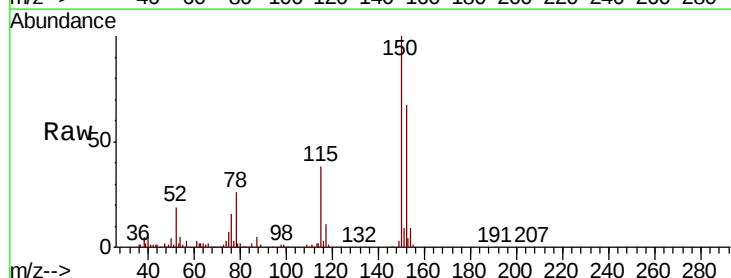


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

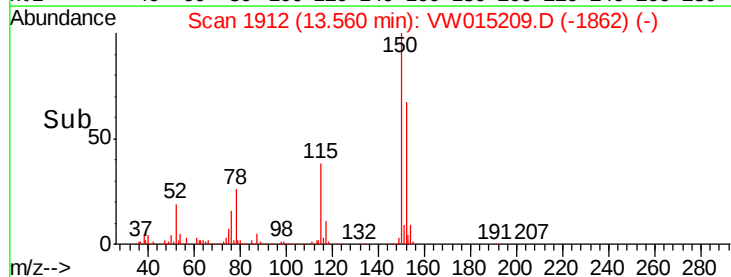
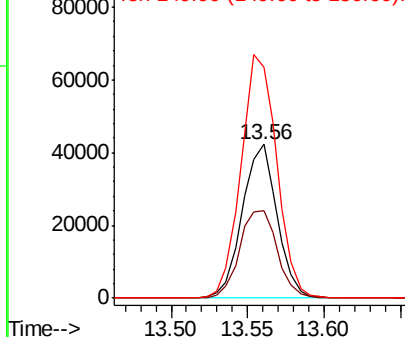


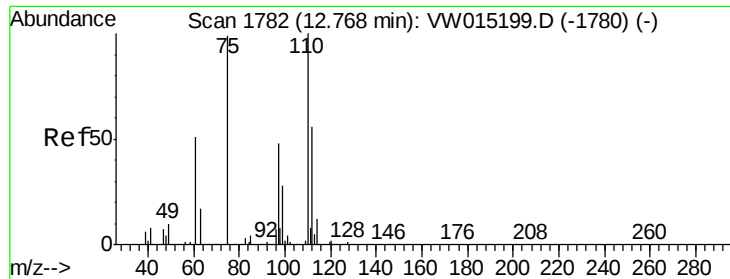
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.01 min
Lab File: VW015209.D
Acq: 15 Apr 2020 18:23

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.0	31.3	93.9
150	162.5	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



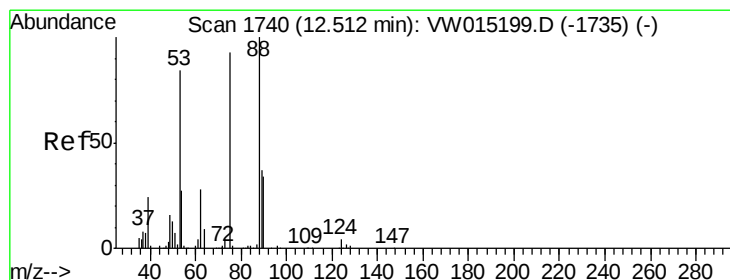
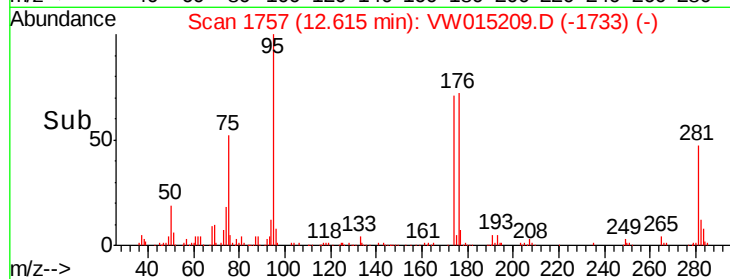
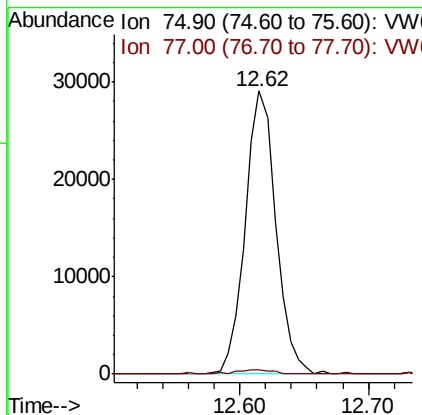
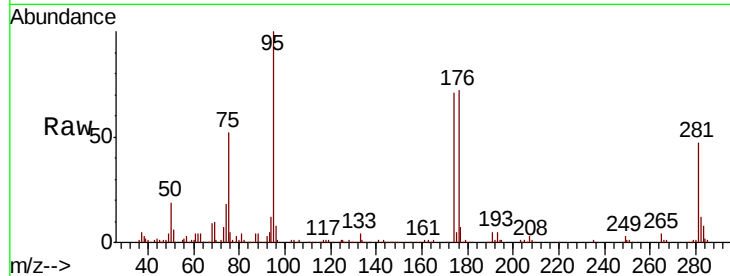


#76

1,2,3-Trichloropropane
Concen: 83.319 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW015209.D
Acq: 15 Apr 2020 18:23

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 75 Resp: 47695
Ion Ratio Lower Upper
75 100
77 2.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene
Concen: 161.201 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW015209.D
Acq: 15 Apr 2020 18:23

Tgt Ion: 75 Resp: 47695
Ion Ratio Lower Upper
75 100
53 0.0 69.4 104.2#
89 0.7 34.8 52.2#

