

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD103019\
 Data File : VD064123.D
 Acq On : 30 Oct 2019 20:19
 Operator : VA/SY
 Sample : K5603-03
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 31 04:05:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D102919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 08:00:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	179004	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	302969	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	300273	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	130823	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	91298	64.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.26%	
35) Dibromofluoromethane	7.92	113	49517	26.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	53.14%	
50) Toluene-d8	10.34	98	366570	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
62) 4-Bromofluorobenzene	12.64	95	123099	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	

Target Compounds

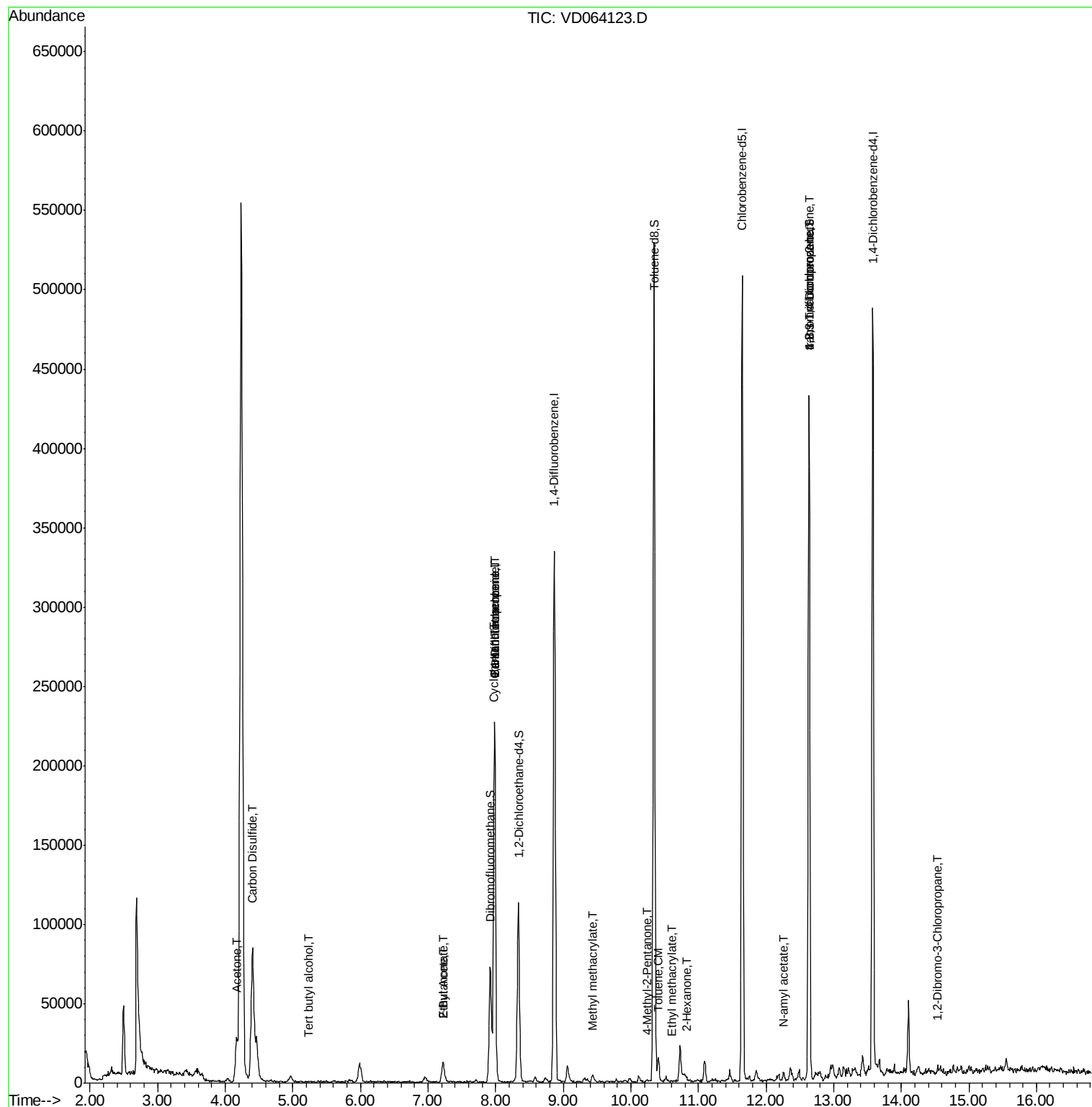
						Qvalue
11) Tert butyl alcohol	5.24	59	73	7.059	ug/l #	71
16) Acetone	4.17	43	49928	184.323	ug/l	98
17) Carbon Disulfide	4.40	76	175557	36.791	ug/l #	94
20) Methylene Chloride	4.96	84	2958	Below Cal	#	70
25) 2-Butanone	7.23	43	10813	28.875	ug/l	96
31) Cyclohexane	7.97	56	3805	1.437	ug/l #	26
36) 1,1-Dichloropropene	7.98	75	12716	4.479	ug/l #	46
37) Ethyl Acetate	7.23	43	10813	12.374	ug/l #	74
38) Carbon Tetrachloride	7.99	117	14922	4.818	ug/l #	21
48) Methyl methacrylate	9.44	41	1427	1.747	ug/l #	19
51) 4-Methyl-2-Pentanone	10.24	43	1007	1.047	ug/l #	51
52) Toluene	10.41	92	5433	1.001	ug/l	82
56) Ethyl methacrylate	10.60	69	134	3.086	ug/l #	55
59) 2-Hexanone	10.83	43	149	9.205	ug/l	88
74) N-amyl acetate	12.26	43	2685	1.778	ug/l #	49
76) 1,2,3-Trichloropropane	12.64	75	63350	72.066	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	63350	147.177	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.54	75	753	3.598	ug/l #	1

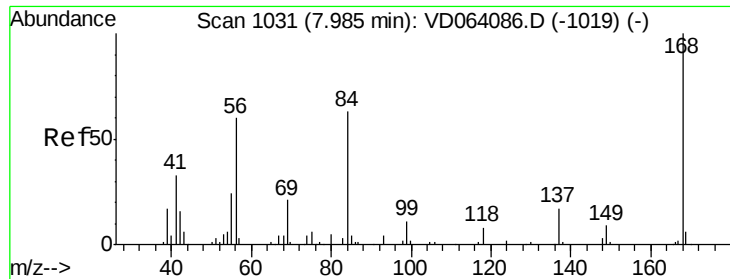
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D102919S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 08:00:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064123.D

Acq: 30 Oct 2019 20:19

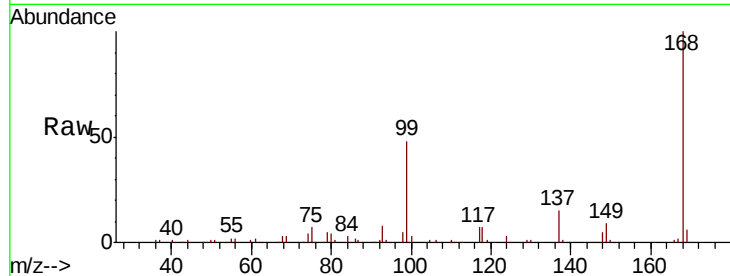
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 179004

Ion Ratio Lower Upper

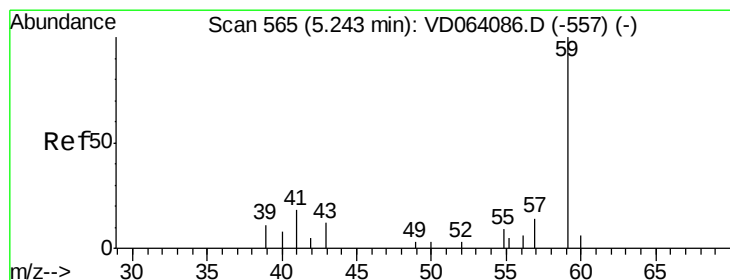
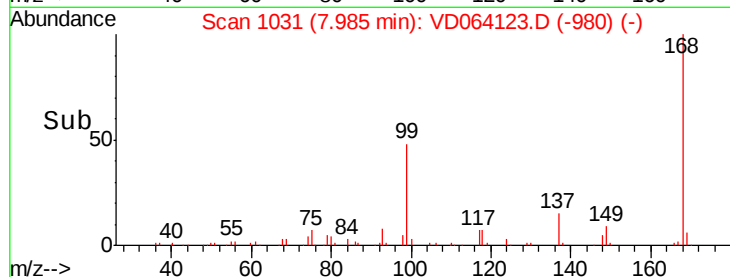
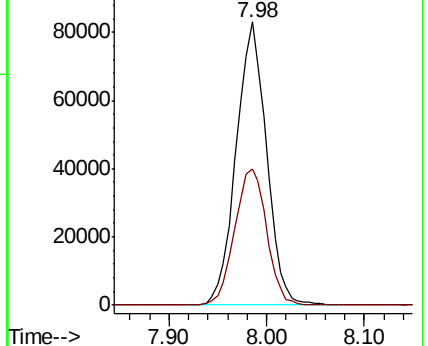
168 100

99 48.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 7.059 ug/l

RT: 5.24 min Scan# 565

Delta R.T. 0.00 min

Lab File: VD064123.D

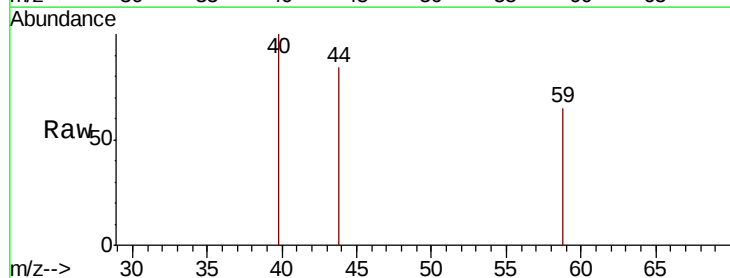
Acq: 30 Oct 2019 20:19

Tgt Ion: 59 Resp: 73

Ion Ratio Lower Upper

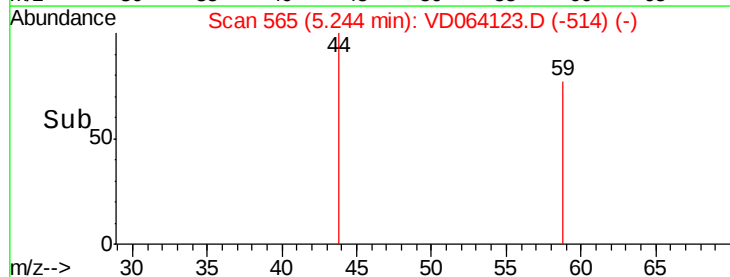
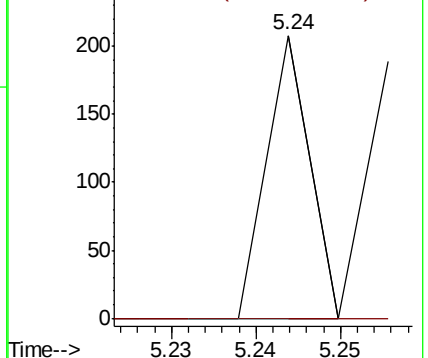
59 100

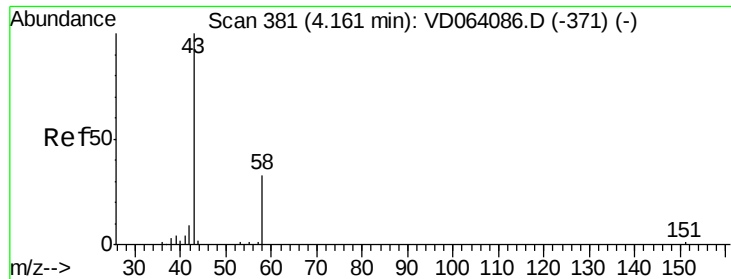
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 184.323 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD064123.D

Acq: 30 Oct 2019 20:19

Instrument :

MSVOA_D

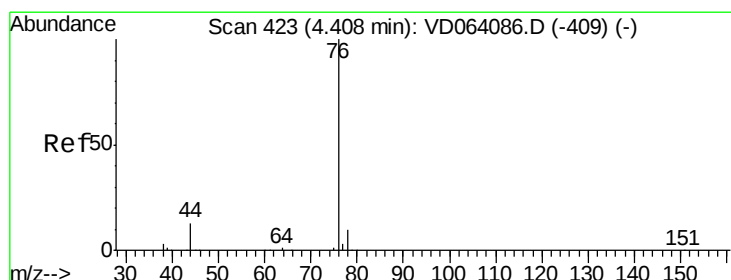
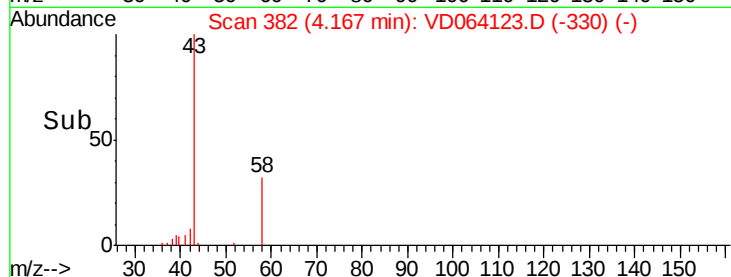
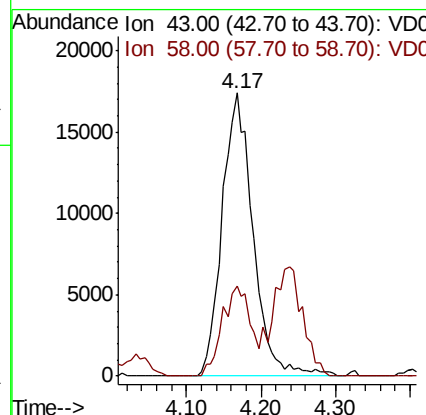
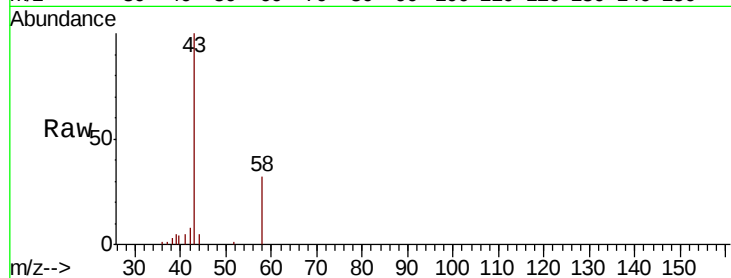
ClientSampleId :

Tot Ion: 43 Resp: 49928

Ion Ratio Lower Upper

43 100

58 31.7 26.3 39.5



#17

Carbon Disulfide

Concen: 36.791 ug/l

RT: 4.40 min Scan# 422

Delta R.T. -0.01 min

Lab File: VD064123.D

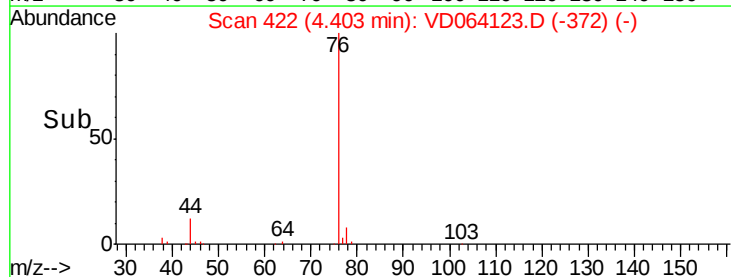
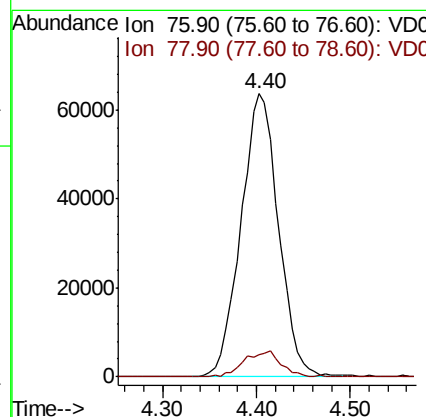
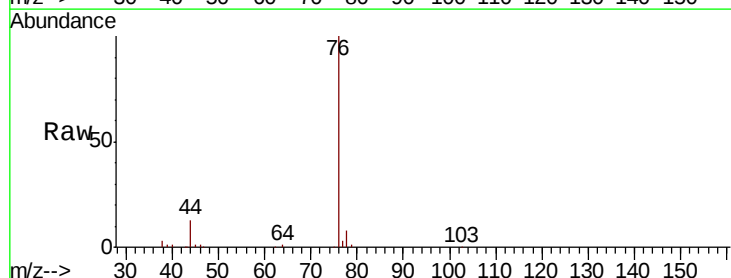
Acq: 30 Oct 2019 20:19

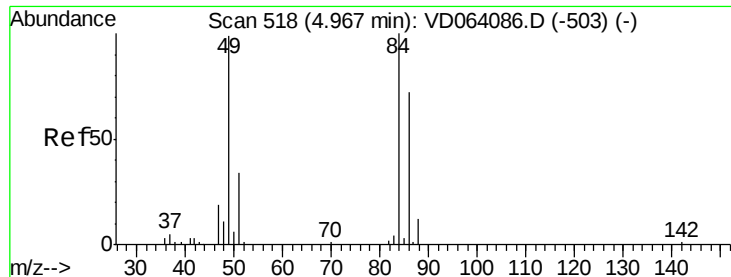
Tgt Ion: 76 Resp: 175557

Ion Ratio Lower Upper

76 100

78 7.7 8.1 12.1#

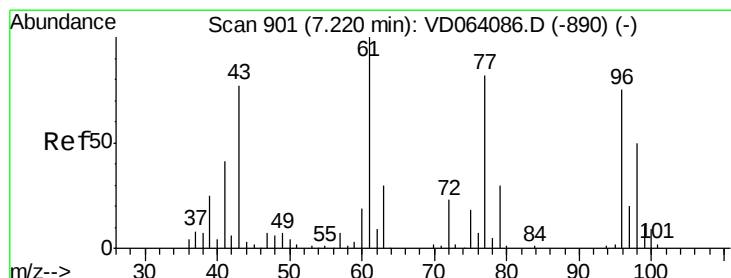
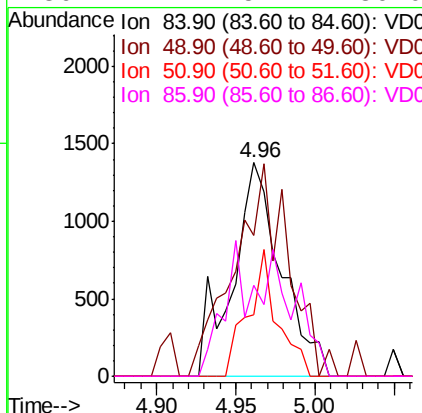
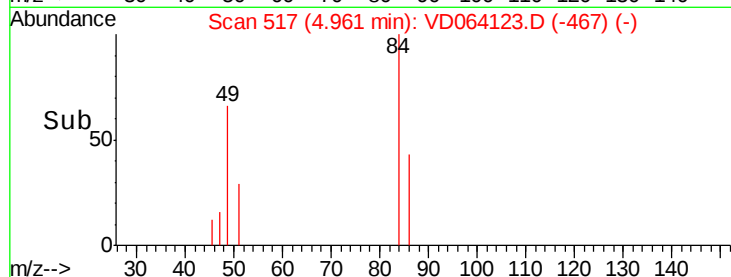
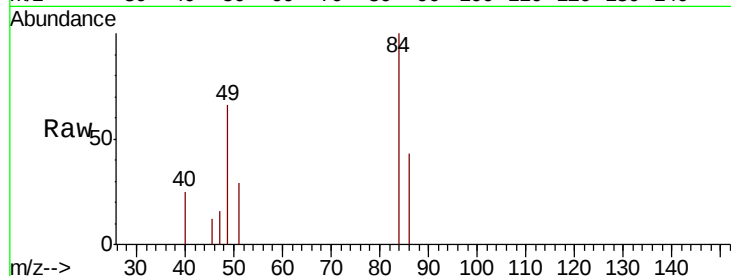




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD064123.D
Acq: 30 Oct 2019 20:19

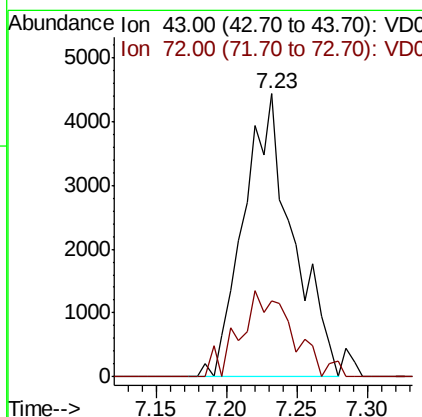
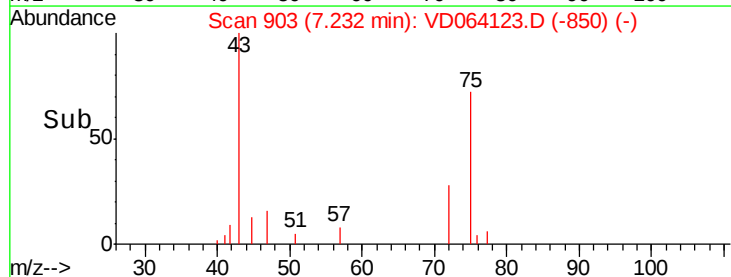
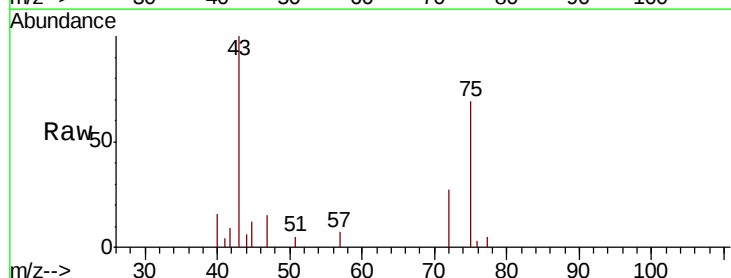
Instrument :
MSVOA_D
ClientSampleId :

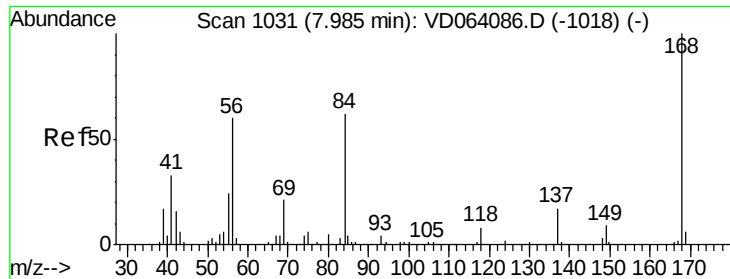
Tot Ion: 84 Resp: 2958
Ion Ratio Lower Upper
84 100
49 66.1 79.4 119.0#
51 28.8 27.4 41.2
86 42.7 57.4 86.0#



#25
2-Butanone
Concen: 28.875 ug/l
RT: 7.23 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD064123.D
Acq: 30 Oct 2019 20:19

Tgt Ion: 43 Resp: 10813
Ion Ratio Lower Upper
43 100
72 27.0 23.4 35.0

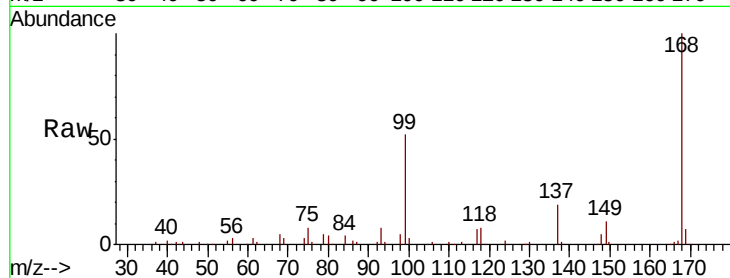




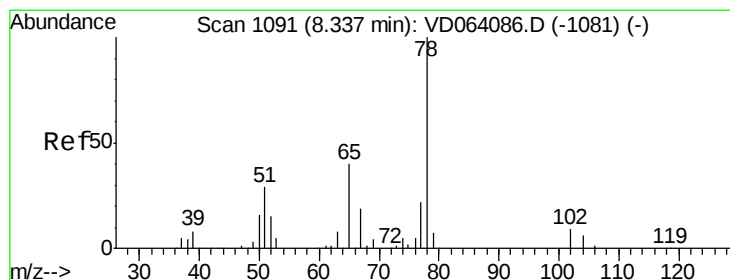
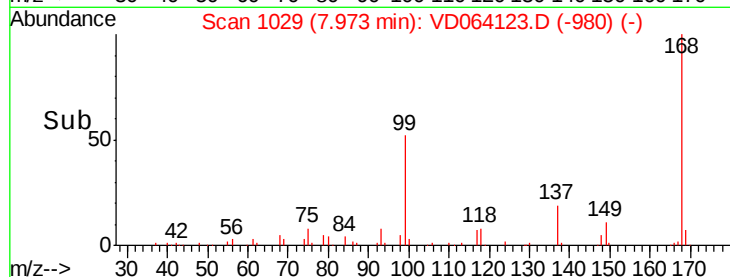
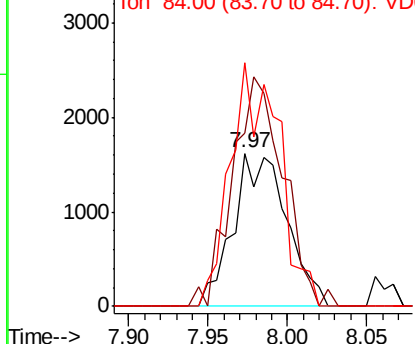
#31
Cyclohexane
Concen: 1.437 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD064123.D
Acq: 30 Oct 2019 20:19

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 3805
Ion Ratio Lower Upper
56 100
69 112.7 27.7 41.5#
84 158.9 83.1 124.7#

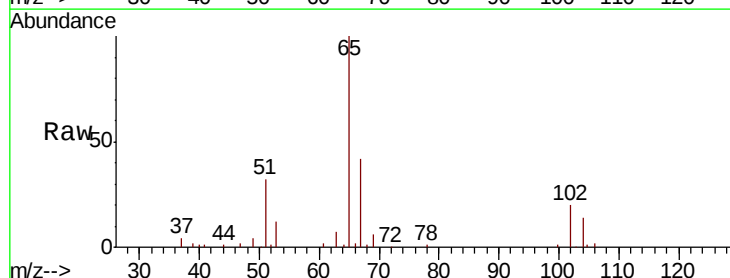


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

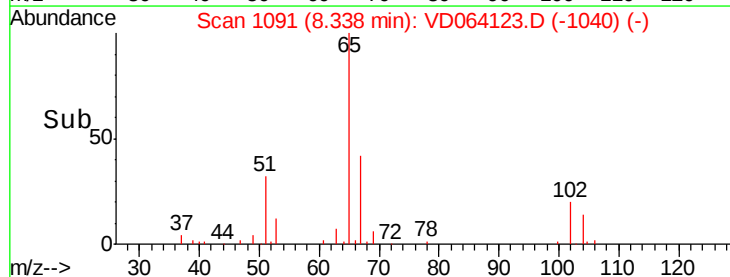
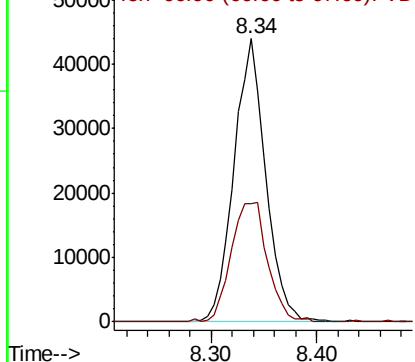


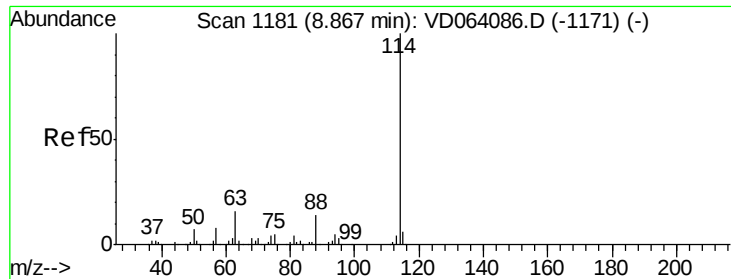
#33
1,2-Dichloroethane-d4
Concen: 64.130 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD064123.D
Acq: 30 Oct 2019 20:19

Tgt Ion: 65 Resp: 91298
Ion Ratio Lower Upper
65 100
67 48.5 0.0 104.6



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

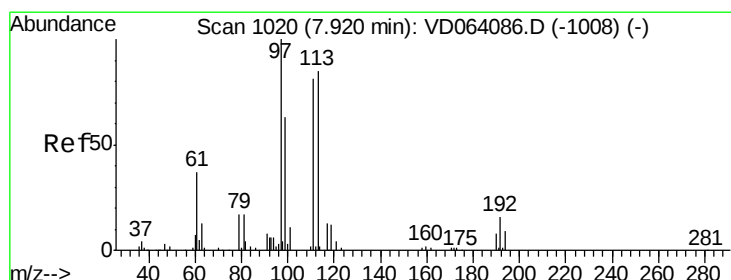
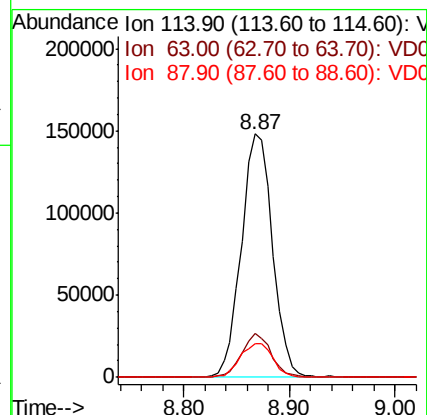
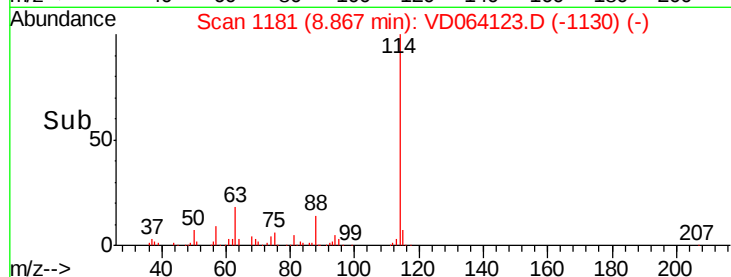
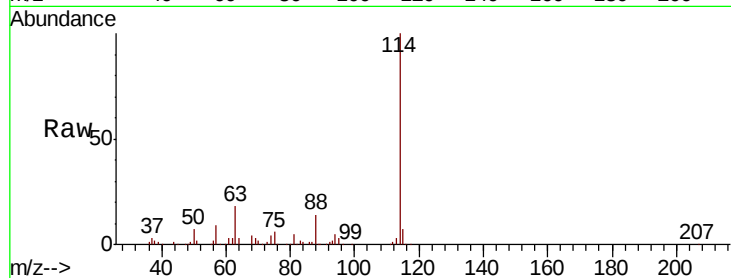




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064123.D
 Acq: 30 Oct 2019 20:19

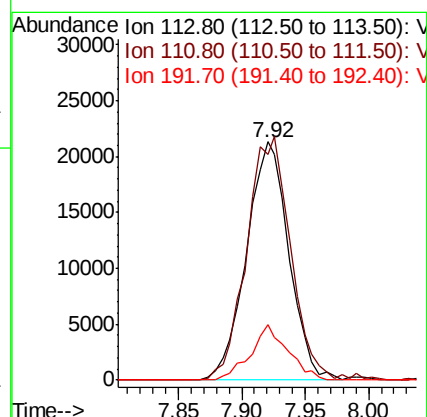
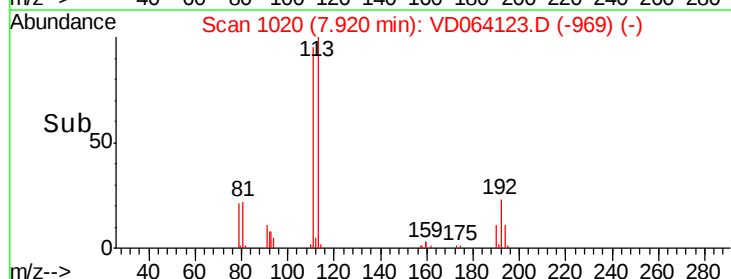
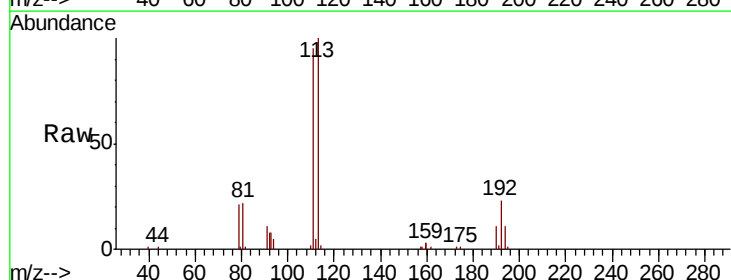
Instrument :
 MSVOA_D
 ClientSampleId :

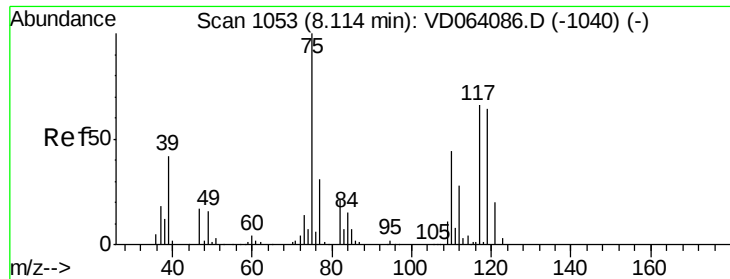
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	32.8
88	14.0	0.0	27.6



#35
 Dibromofluoromethane
 Concen: 26.566 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064123.D
 Acq: 30 Oct 2019 20:19

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.7	79.3	118.9
192	20.3	16.2	24.2

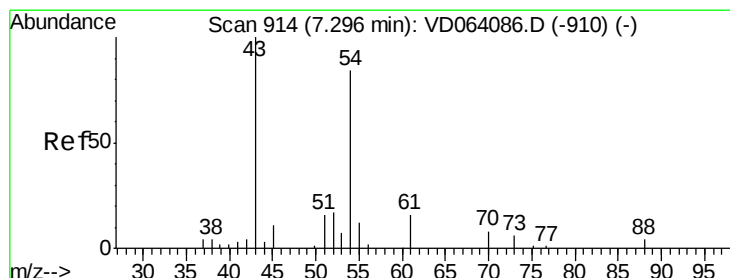
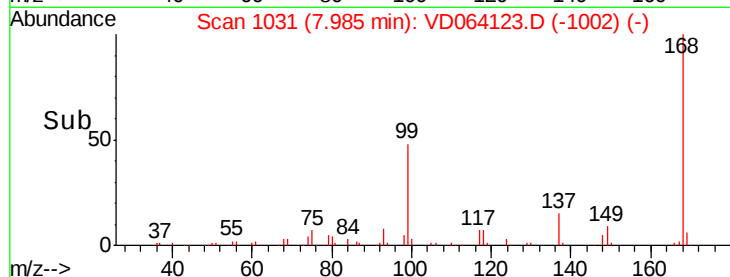
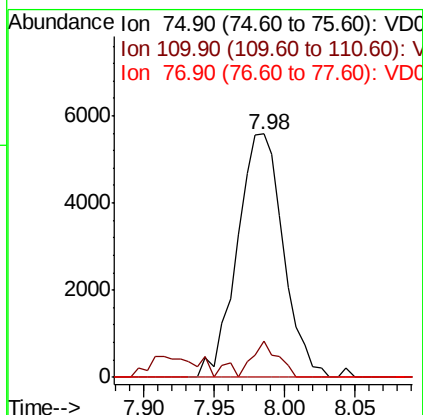
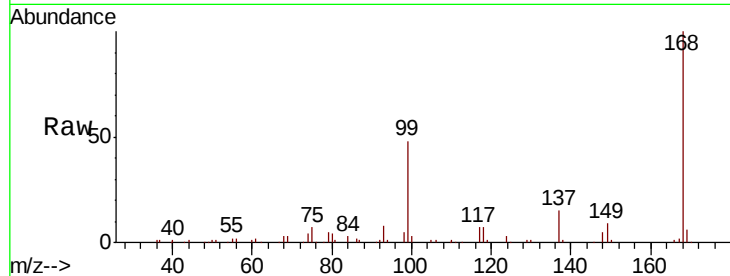




#36
 1,1-Dichloropropene
 Concen: 4.479 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064123.D
 Acq: 30 Oct 2019 20:19

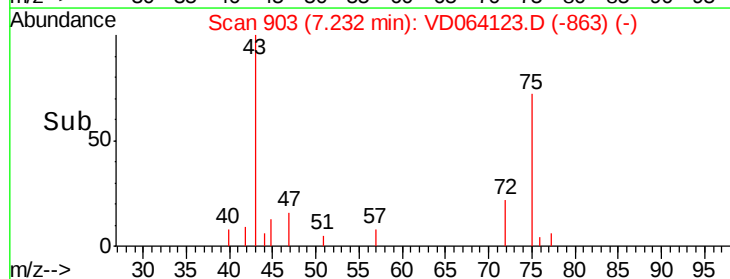
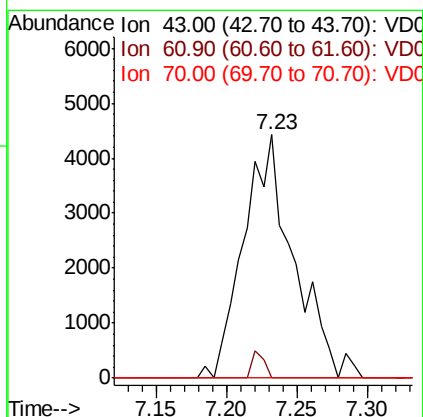
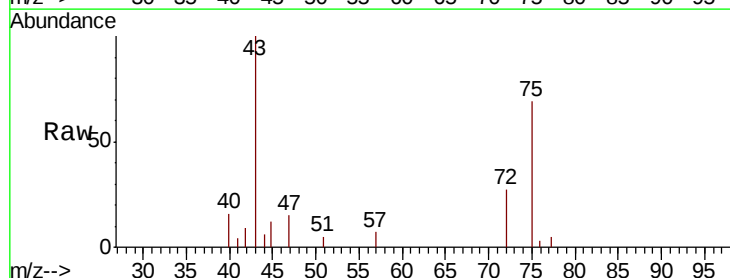
Instrument :
 MSVOA_D
 ClientSampleId :

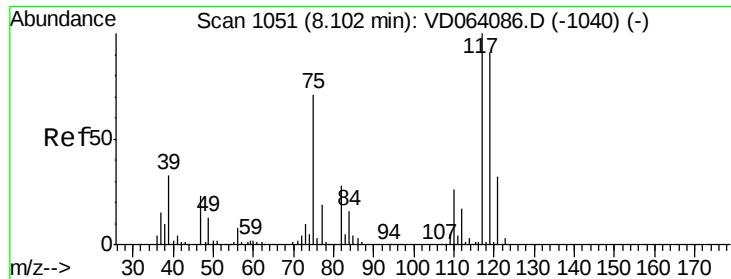
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	20.0	59.9#
77	0.0	24.7	37.1#



#37
 Ethyl Acetate
 Concen: 12.374 ug/l
 RT: 7.23 min Scan# 903
 Delta R.T. -0.06 min
 Lab File: VD064123.D
 Acq: 30 Oct 2019 20:19

Tgt Ion	Ratio	Lower	Upper
43	100		
61	2.7	12.0	18.0#
70	0.0	3.8	5.6#





#38

Carbon Tetrachloride

Concen: 4.818 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD064123.D

Acq: 30 Oct 2019 20:19

Instrument :

MSVOA_D

ClientSampleId :

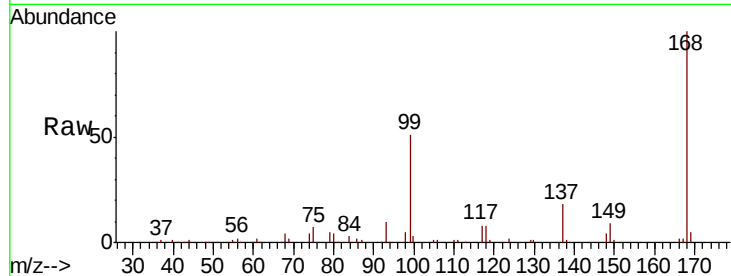
Tot Ion:117 Resp: 14922

Ion Ratio Lower Upper

117 100

119 9.0 72.6 108.8#

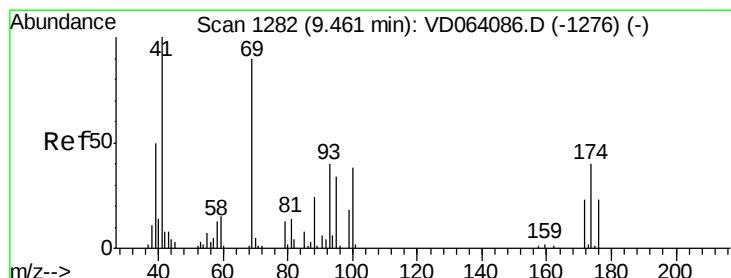
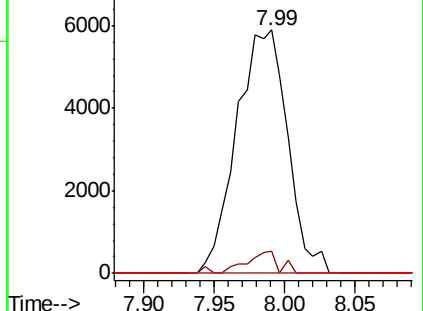
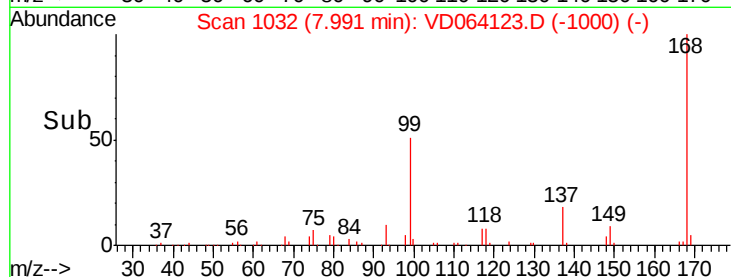
121 0.0 25.8 38.6#



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



#48

Methyl methacrylate

Concen: 1.747 ug/l

RT: 9.44 min Scan# 1279

Delta R.T. -0.02 min

Lab File: VD064123.D

Acq: 30 Oct 2019 20:19

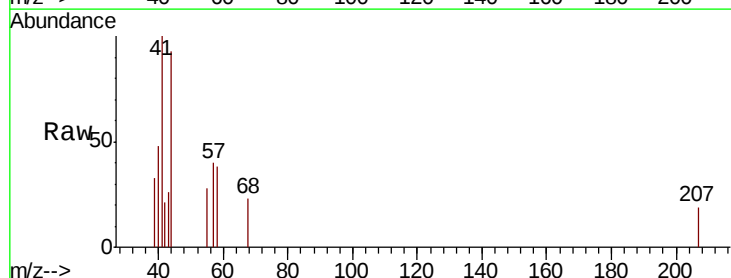
Tgt Ion: 41 Resp: 1427

Ion Ratio Lower Upper

41 100

69 0.0 82.6 124.0#

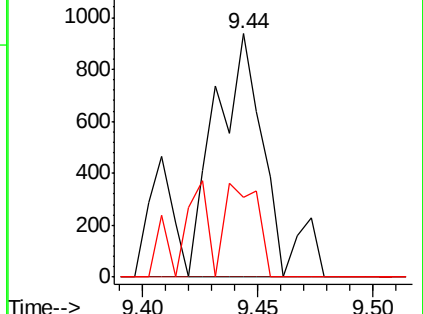
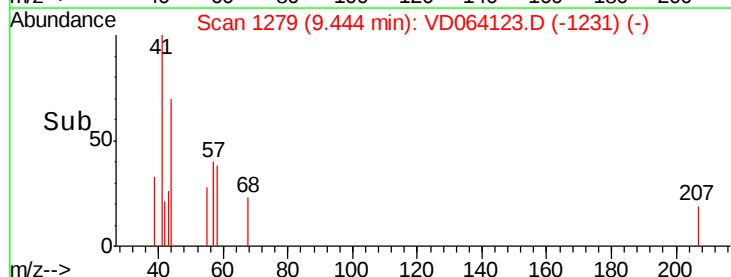
39 24.8 47.0 70.4#

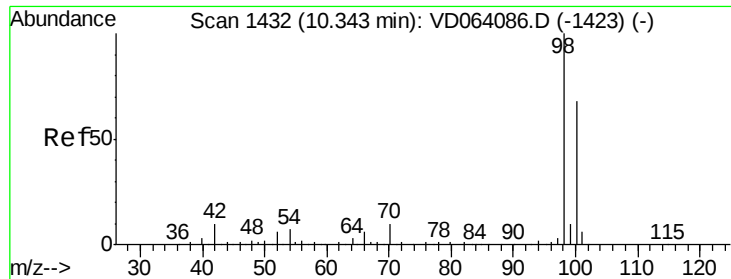


Abundance Ion 41.00 (40.70 to 41.70): V

Ion 69.00 (68.70 to 69.70): V

Ion 39.00 (38.70 to 39.70): V





#50

Toluene-d8

Concen: 49.176 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064123.D

Acq: 30 Oct 2019 20:19

Instrument :

MSVOA_D

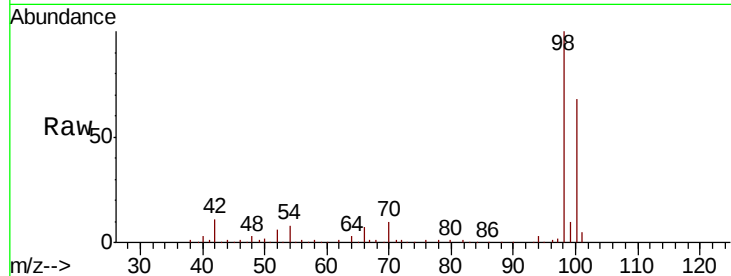
ClientSampleId :

Tot Ion: 98 Resp: 366570

Ion Ratio Lower Upper

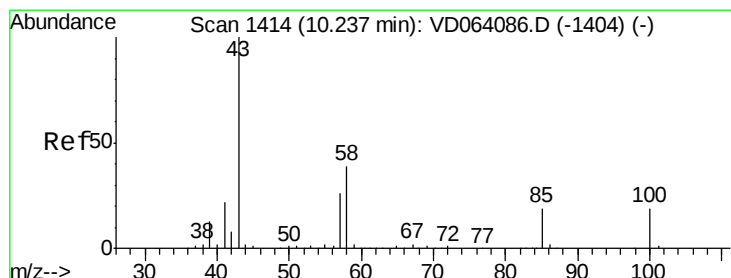
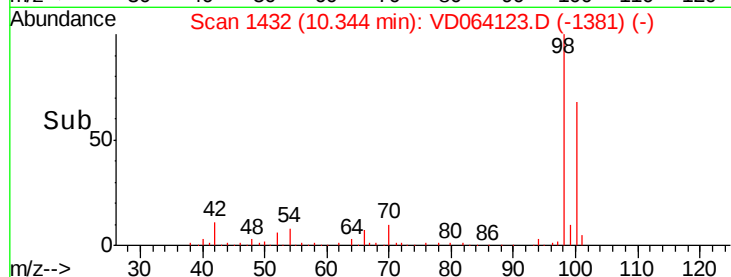
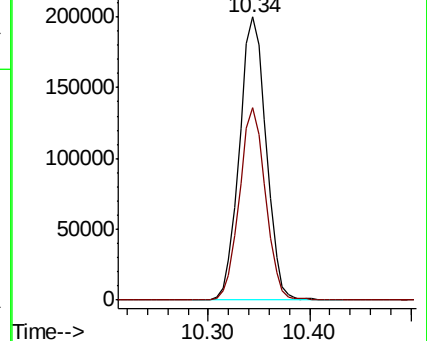
98 100

100 66.1 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.047 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.00 min

Lab File: VD064123.D

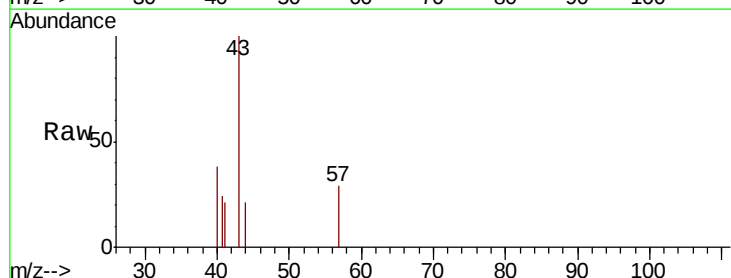
Acq: 30 Oct 2019 20:19

Tgt Ion: 43 Resp: 1007

Ion Ratio Lower Upper

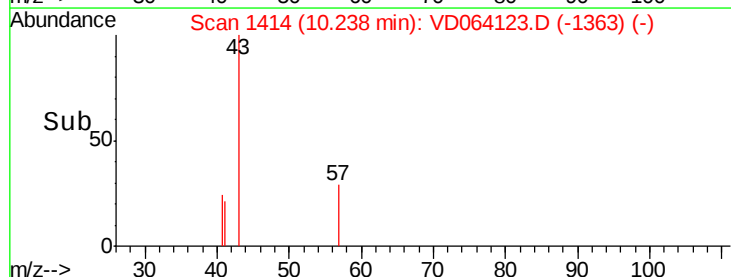
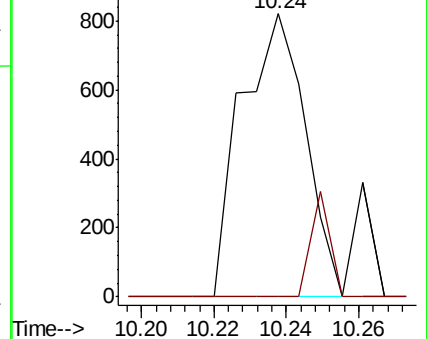
43 100

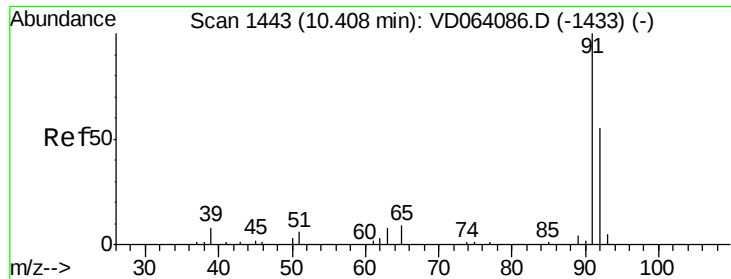
58 10.6 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#52

Toluene

Concen: 1.001 ug/l

RT: 10.41 min Scan# 1444

Delta R.T. 0.01 min

Lab File: VD064123.D

Acq: 30 Oct 2019 20:19

Instrument :

MSVOA_D

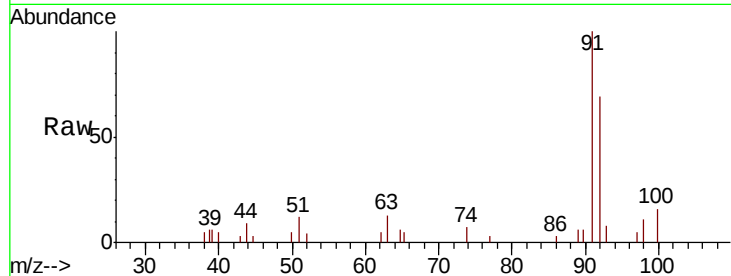
ClientSampleId :

Tot Ion: 92 Resp: 5433

Ion Ratio Lower Upper

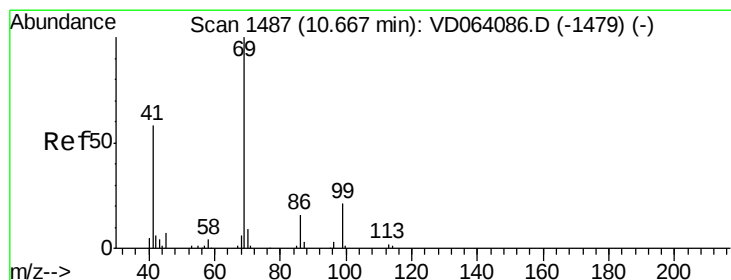
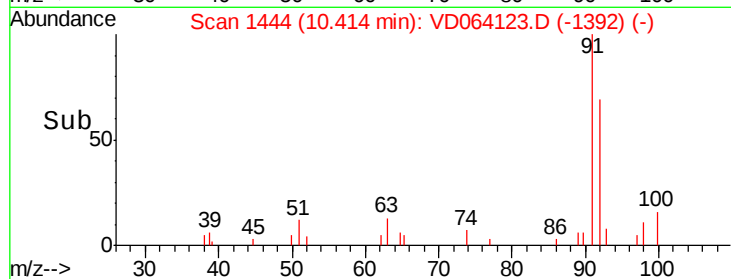
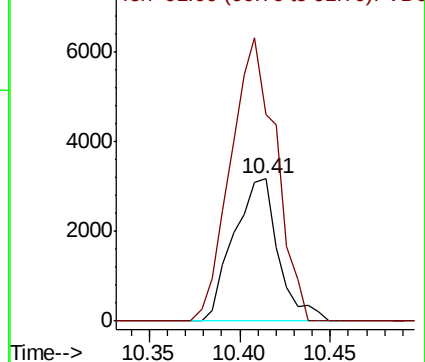
92 100

91 201.7 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#56

Ethyl methacrylate

Concen: 3.086 ug/l

RT: 10.60 min Scan# 1476

Delta R.T. -0.06 min

Lab File: VD064123.D

Acq: 30 Oct 2019 20:19

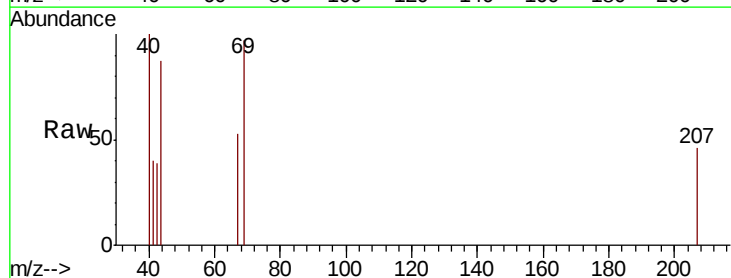
Tgt Ion: 69 Resp: 134

Ion Ratio Lower Upper

69 100

41 85.8 46.9 70.3#

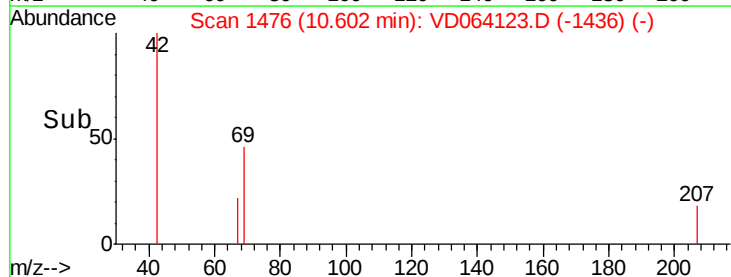
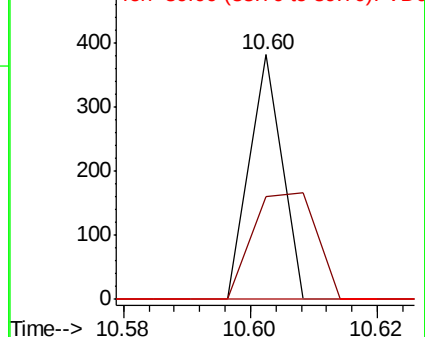
39 0.0 27.3 40.9#

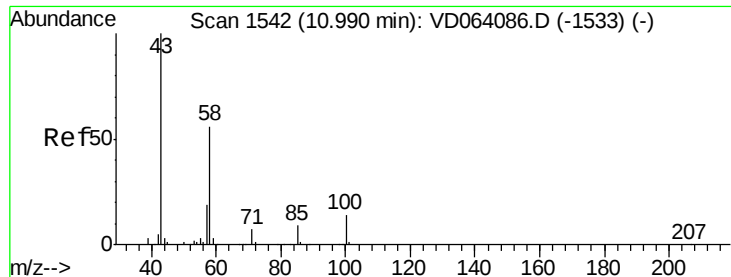


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

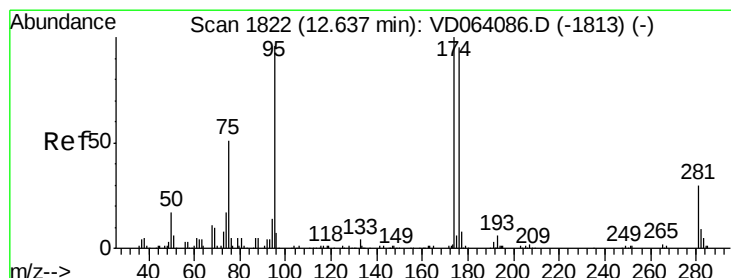
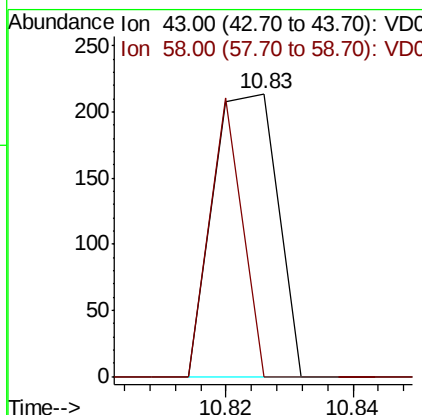
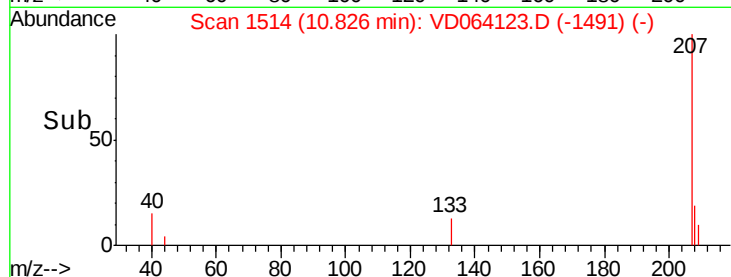
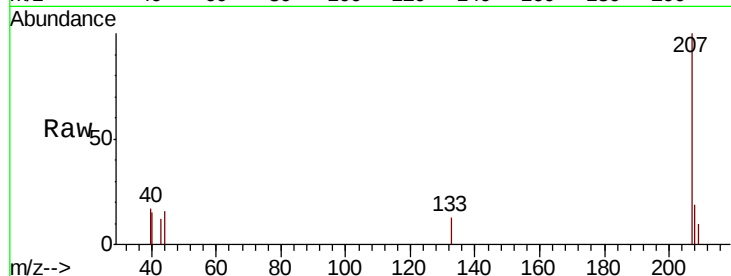




#59
2-Hexanone
Concen: 9.205 ug/l
RT: 10.83 min Scan# 1514
Delta R.T. -0.16 min
Lab File: VD064123.D
Acq: 30 Oct 2019 20:19

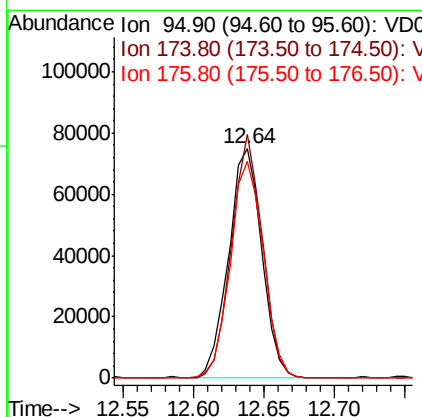
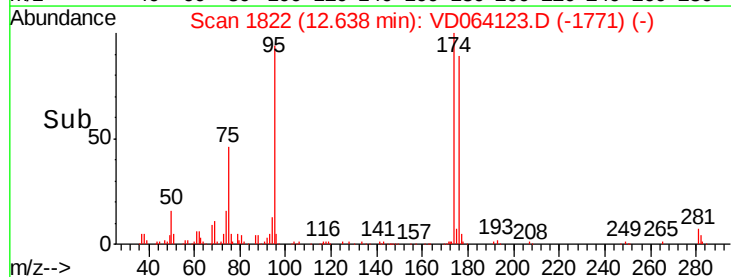
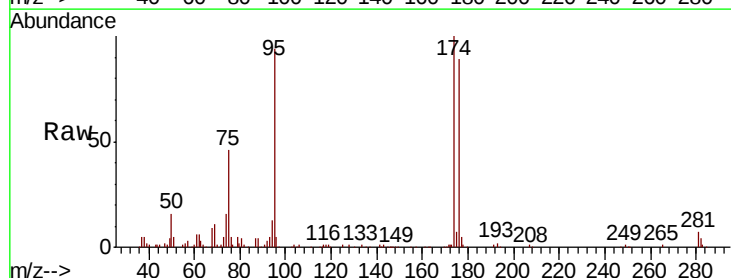
Instrument :
MSVOA_D
ClientSampleId :

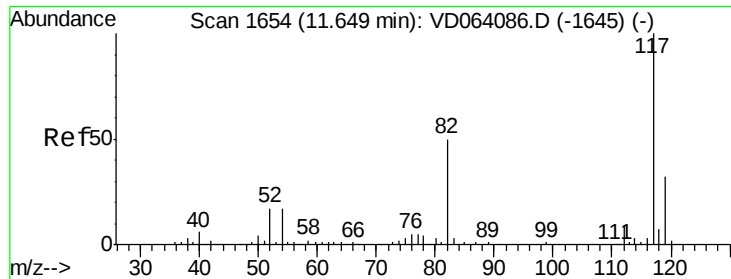
Tot Ion: 43 Resp: 149
Ion Ratio Lower Upper
43 100
58 49.7 29.2 87.6



#62
4-Bromofluorobenzene
Concen: 49.811 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064123.D
Acq: 30 Oct 2019 20:19

Tgt Ion: 95 Resp: 123099
Ion Ratio Lower Upper
95 100
174 99.0 0.0 201.6
176 94.2 0.0 192.6

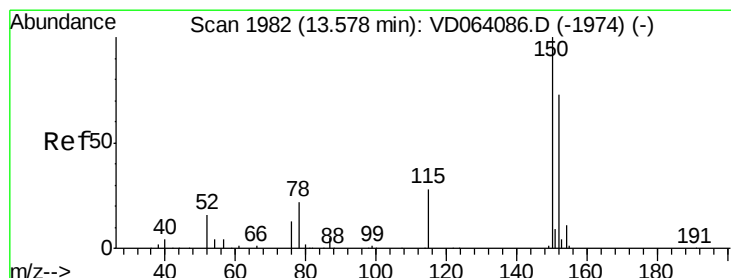
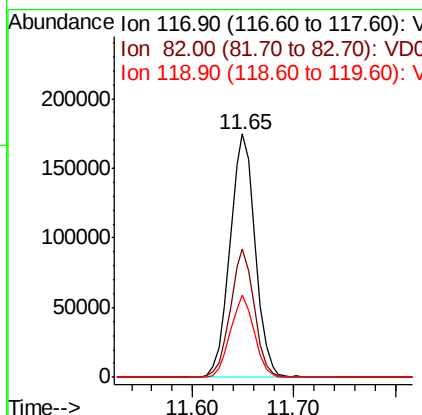
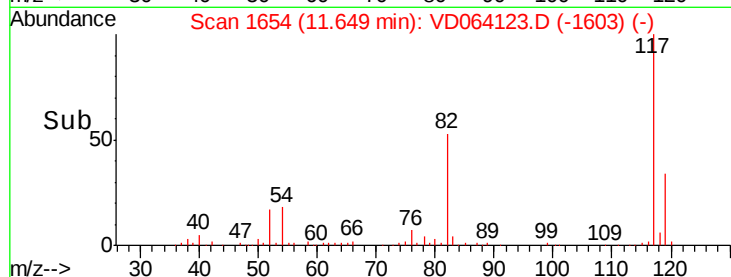
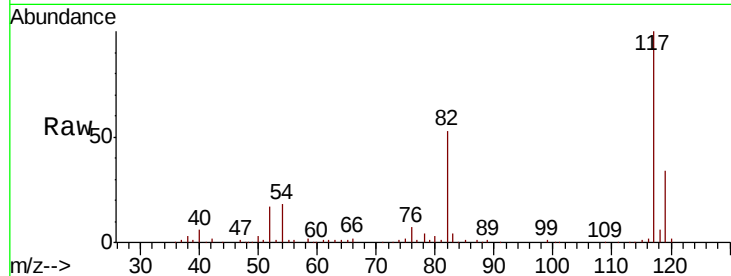




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064123.D
Acq: 30 Oct 2019 20:19

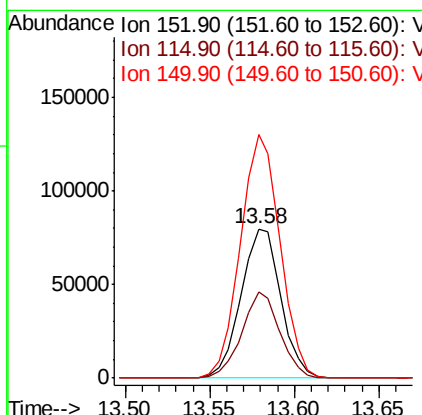
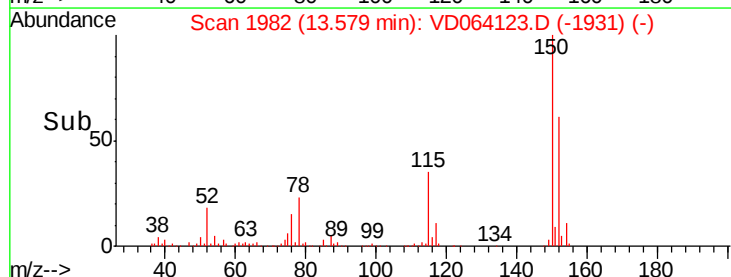
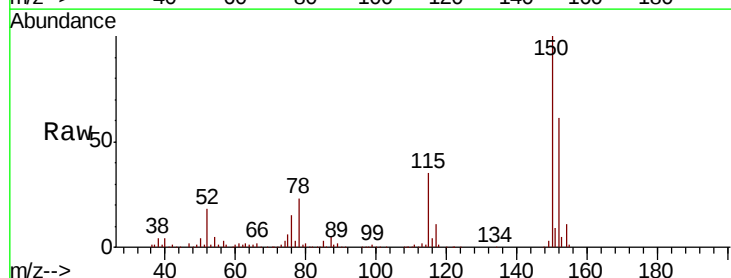
Instrument :
MSVOA_D
ClientSampled :

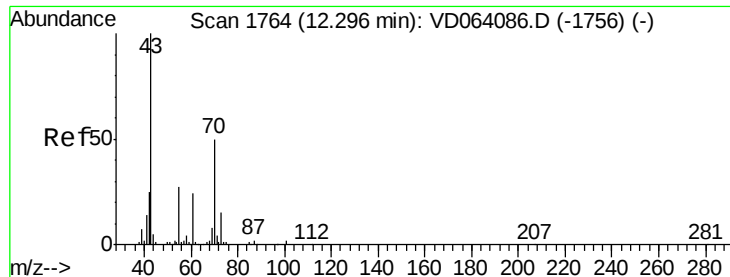
Tot Ion:117 Resp: 300273
Ion Ratio Lower Upper
117 100
82 52.7 40.2 60.4
119 33.9 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD064123.D
Acq: 30 Oct 2019 20:19

Tgt Ion:152 Resp: 130823
Ion Ratio Lower Upper
152 100
115 55.5 26.2 78.6
150 162.4 0.0 338.8





#74

N-amvl acetate

Concen: 1.778 ug/l

RT: 12.26 min Scan# 1758

Delta R.T. -0.03 min

Lab File: VD064123.D

Acq: 30 Oct 2019 20:19

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 2685

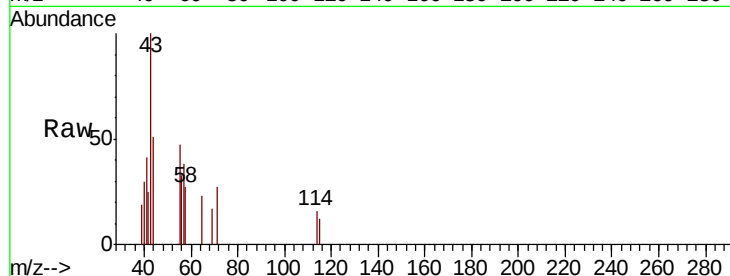
Ion Ratio Lower Upper

43 100

70 0.0 38.6 58.0#

55 31.2 20.4 30.6#

61 0.0 20.8 31.2#

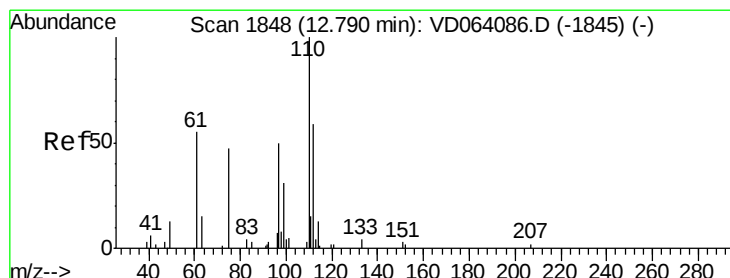
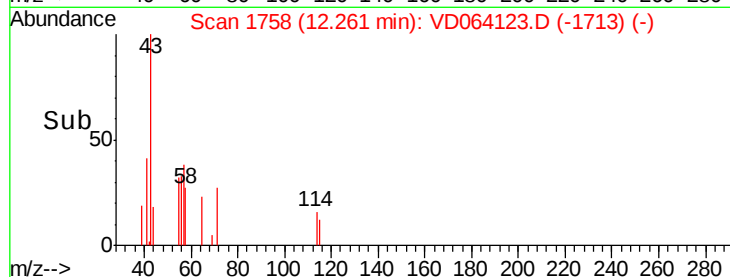
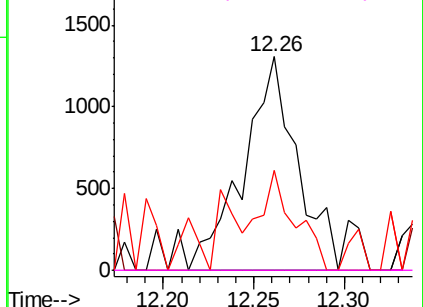


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 72.066 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064123.D

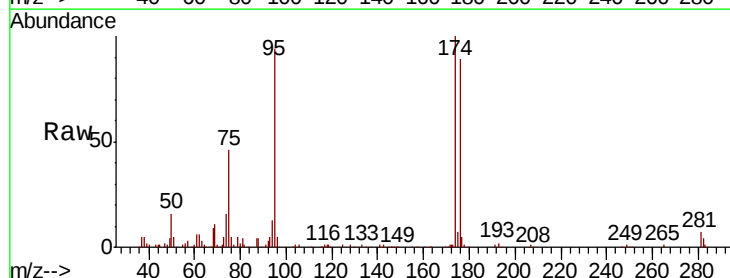
Acq: 30 Oct 2019 20:19

Tgt Ion: 75 Resp: 63350

Ion Ratio Lower Upper

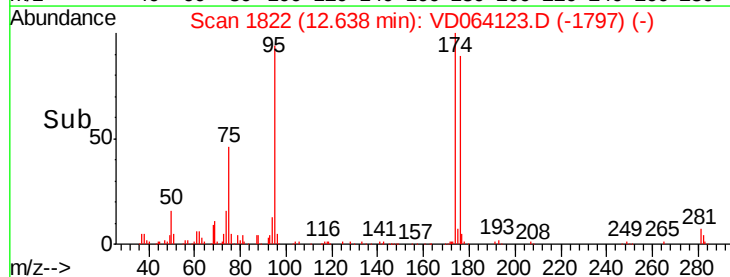
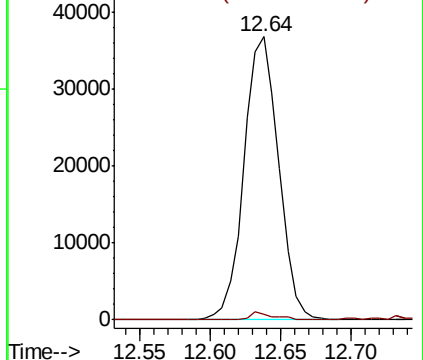
75 100

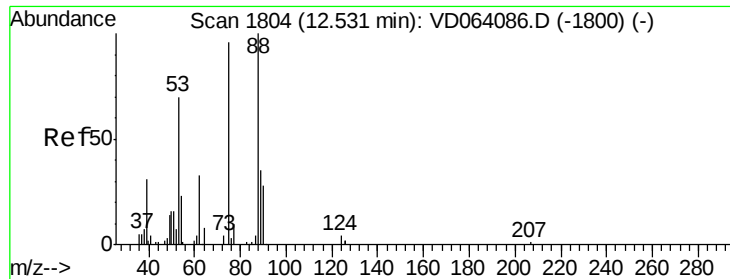
77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 147.177 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064123.D

Acq: 30 Oct 2019 20:19

Instrument :

MSVOA_D

ClientSampleId :

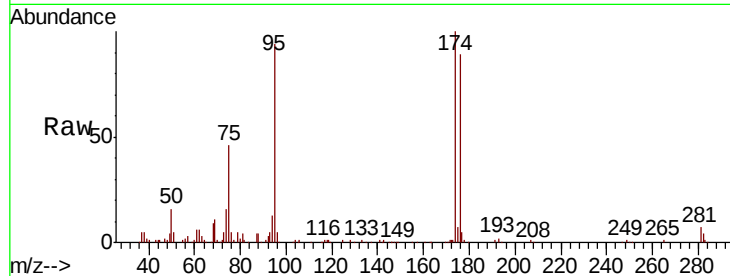
Tot Ion: 75 Resp: 63350

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

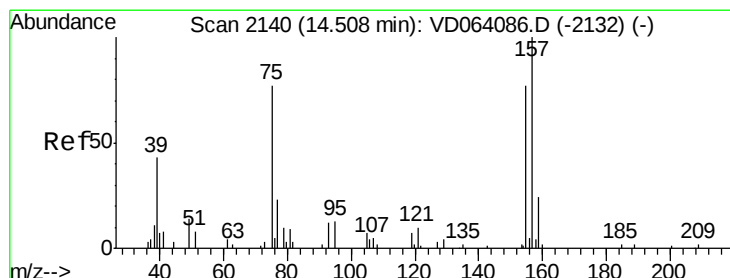
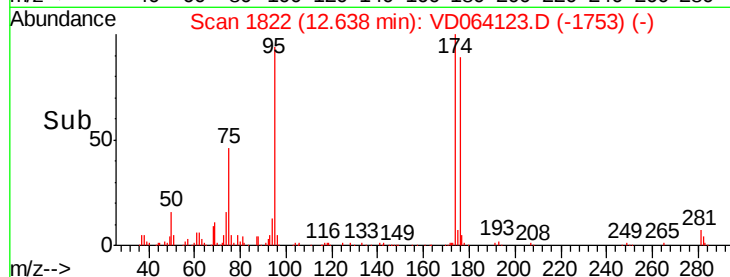
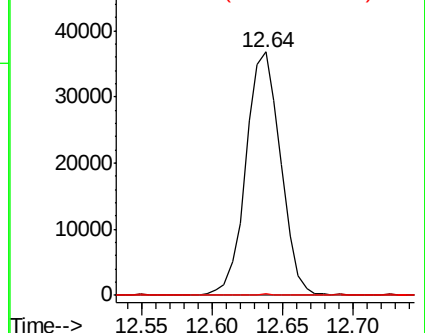
89 0.2 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.598 ug/l

RT: 14.54 min Scan# 2146

Delta R.T. 0.04 min

Lab File: VD064123.D

Acq: 30 Oct 2019 20:19

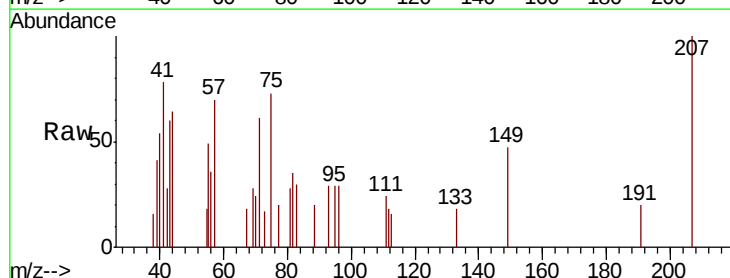
Tgt Ion: 75 Resp: 753

Ion Ratio Lower Upper

75 100

155 0.0 56.3 168.9#

157 0.0 72.2 216.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

