

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102919\
 Data File : VD064101.D
 Acq On : 29 Oct 2019 21:03
 Operator : VA/SY
 Sample : K5599-03
 Misc : 5.78G/5.00ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 30 08:10:10 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	236945	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	394290	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	394216	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	204366	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	102883	54.60	ug/l	0.00
Spiked Amount			Recovery	=	109.20%	
35) Dibromofluoromethane	7.92	113	117590	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
50) Toluene-d8	10.34	98	471955	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
62) 4-Bromofluorobenzene	12.64	95	162130	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	

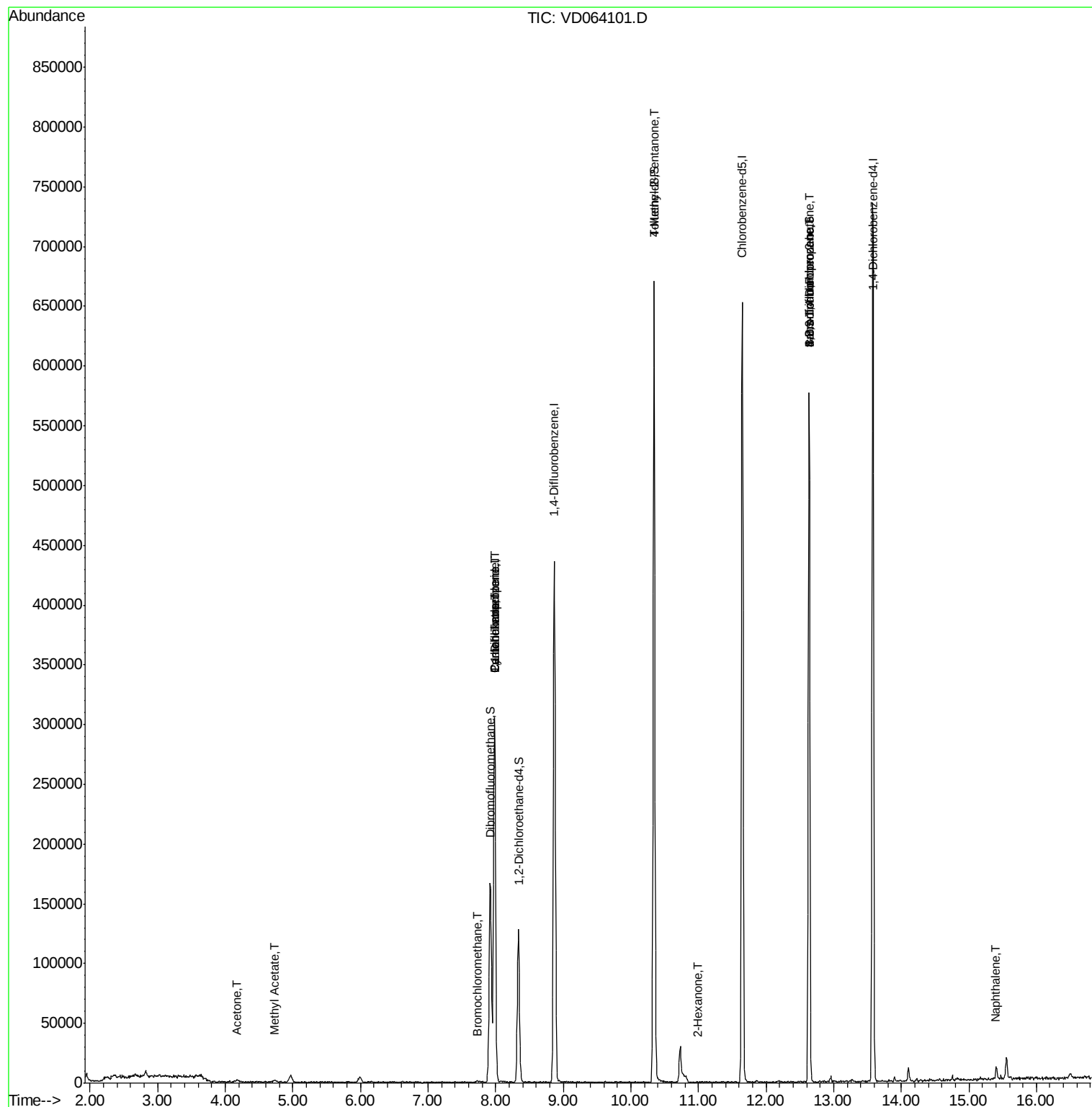
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.17	43	3301	9.207	ug/l #	84
18) Methyl Acetate	4.73	43	2925	3.067	ug/l #	66
20) Methylene Chloride	4.97	84	4543	Below Cal	#	77
28) Bromochloromethane	7.73	49	61	2.292	ug/l #	5
31) Cyclohexane	7.98	56	4489	1.281	ug/l #	52
36) 1,1-Dichloropropene	7.98	75	16397	4.438	ug/l #	48
38) Carbon Tetrachloride	7.98	117	23179	5.750	ug/l #	20
51) 4-Methyl-2-Pentanone	10.35	43	1984	1.586	ug/l #	1
59) 2-Hexanone	11.00	43	62	9.075	ug/l #	22
71) Bromoform	12.64	173	2290	1.407	ug/l #	28
76) 1,2,3-Trichloropropane	12.64	75	84762	61.725	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	84762	126.058	ug/l #	15
95) Naphthalene	15.40	128	9201	1.327	ug/l	96

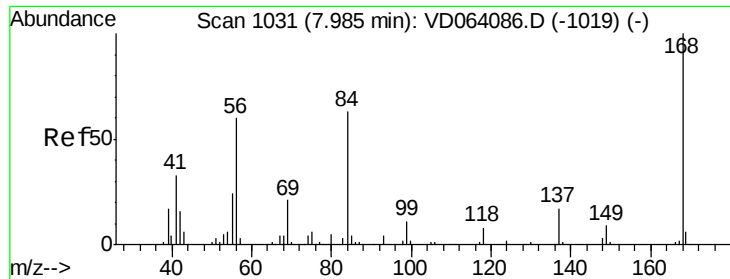
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

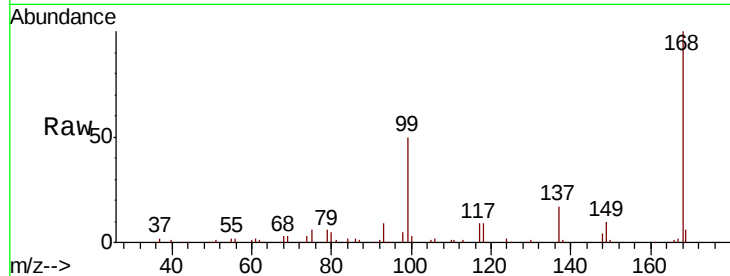
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 236945

Ion Ratio Lower Upper

168 100

99 50.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

120000

100000

80000

60000

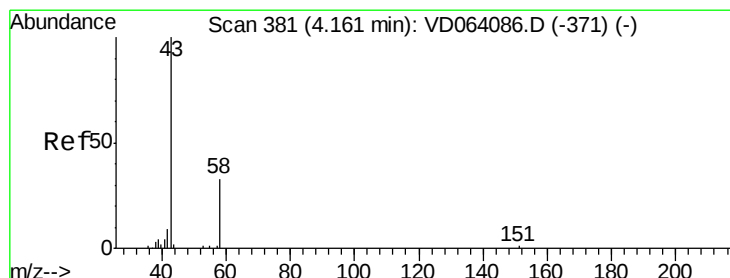
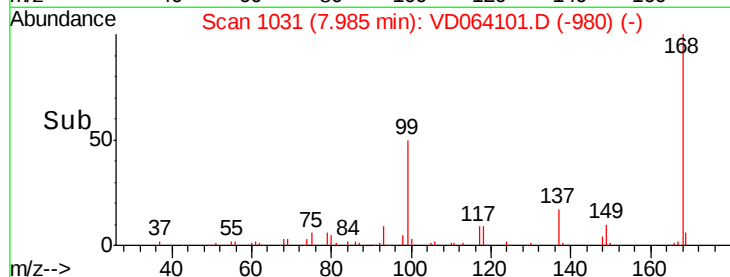
40000

20000

0

Time-->

7.90 7.95 8.00 8.05 8.10



#16

Acetone

Concen: 9.207 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064101.D

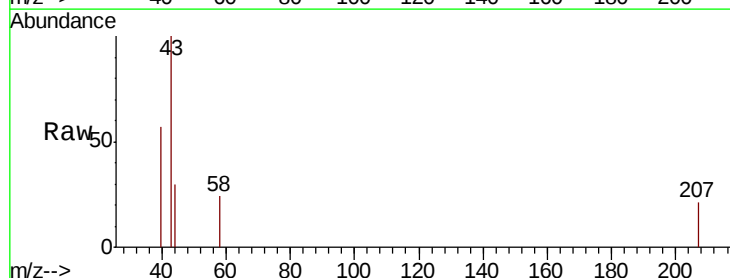
Acq: 29 Oct 2019 21:03

Tgt Ion: 43 Resp: 3301

Ion Ratio Lower Upper

43 100

58 23.8 26.3 39.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

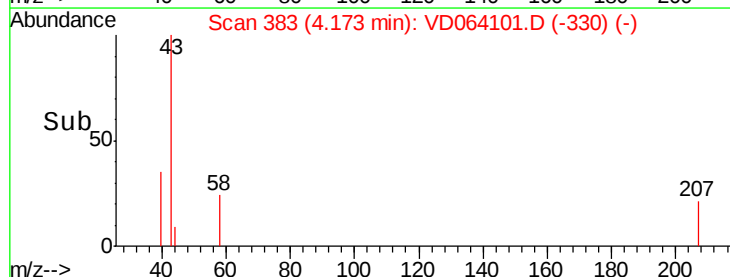
1000

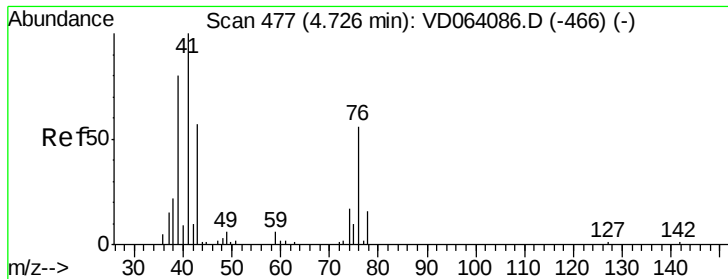
500

0

Time-->

4.10 4.15 4.20 4.25





#18

Methyl Acetate

Concen: 3.067 ug/l

RT: 4.73 min Scan# 477

Delta R.T. 0.00 min

Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

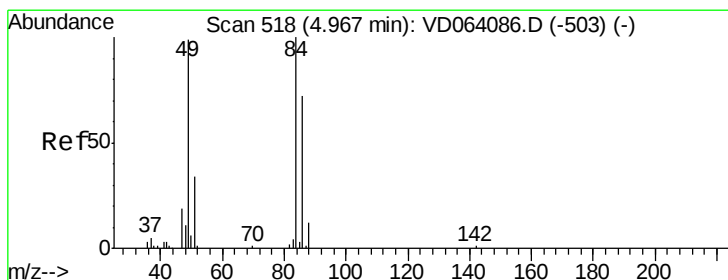
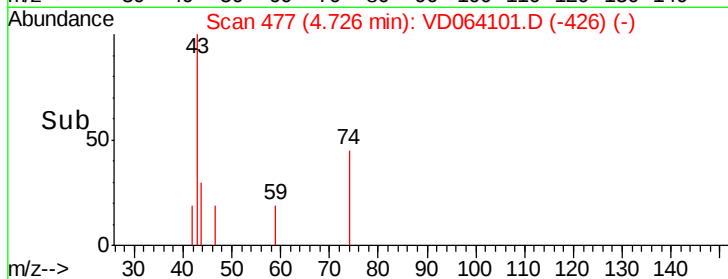
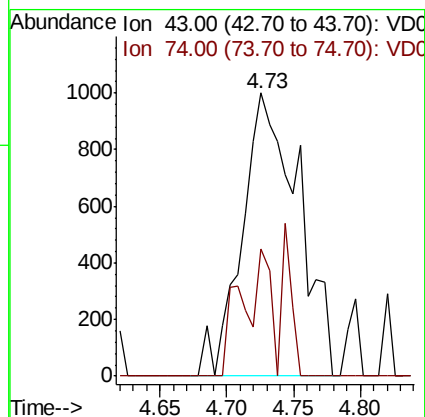
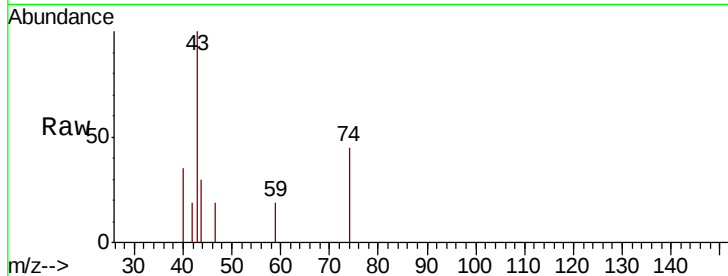
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 2925

Ion Ratio Lower Upper

43 100

74 9.9 22.2 33.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

Tgt Ion: 84 Resp: 4543

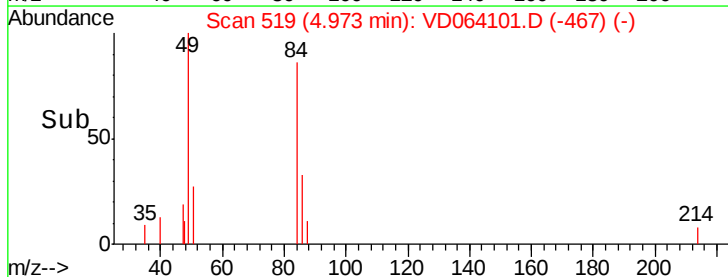
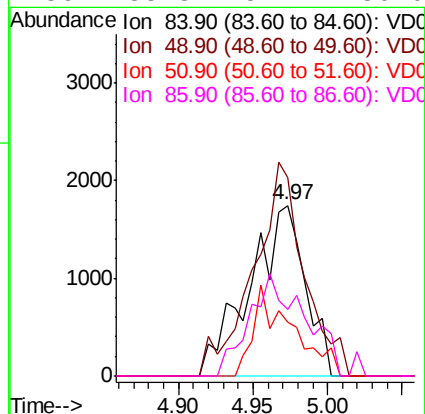
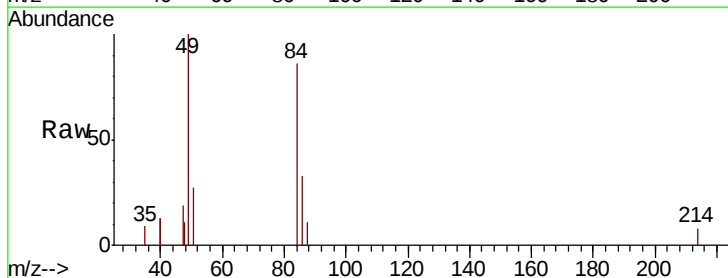
Ion Ratio Lower Upper

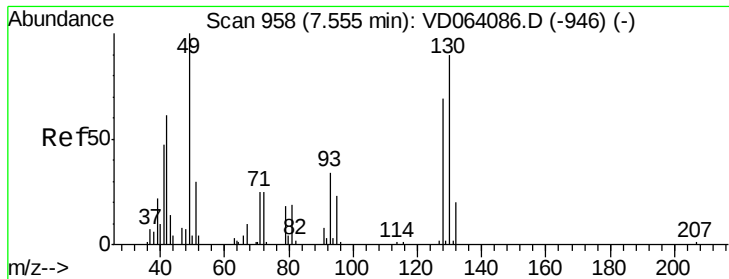
84 100

49 116.7 79.4 119.0

51 31.3 27.4 41.2

86 38.8 57.4 86.0#





#28

Bromochloromethane

Concen: 2.292 ug/l

RT: 7.73 min Scan# 987

Delta R.T. 0.17 min

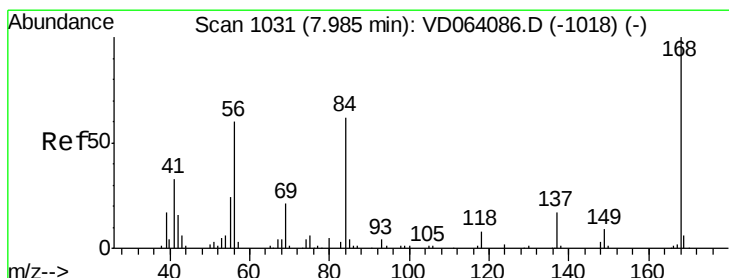
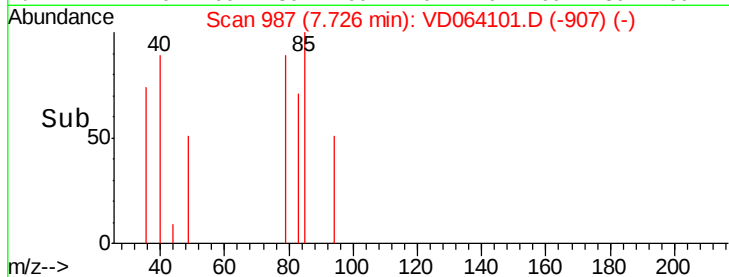
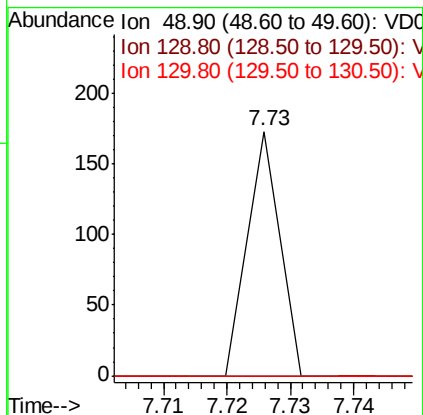
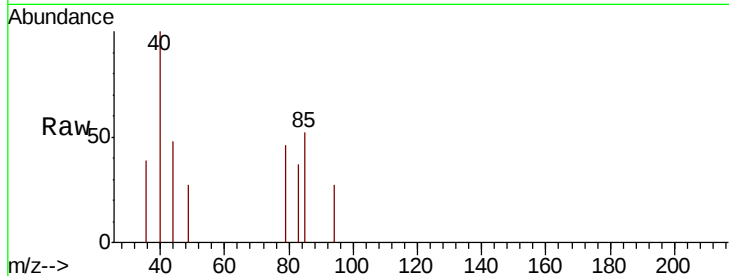
Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 49 Resp: 61

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.4
130	0.0	75.3	112.9#



#31

Cyclohexane

Concen: 1.281 ug/l

RT: 7.98 min Scan# 1031

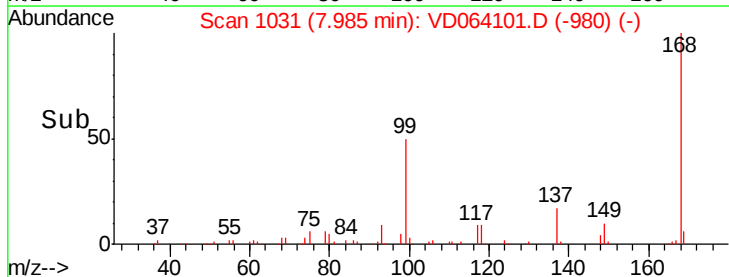
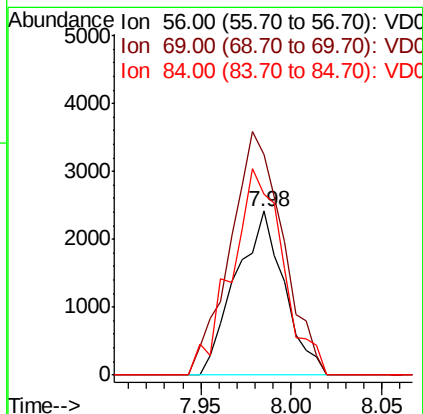
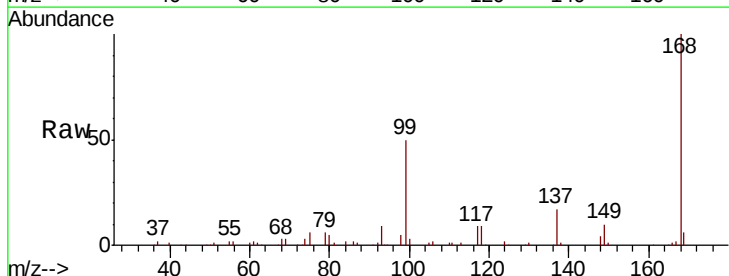
Delta R.T. 0.00 min

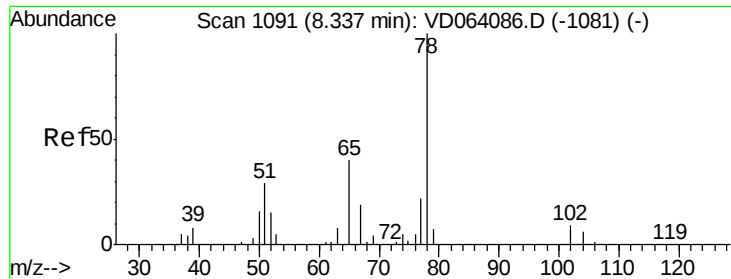
Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

Tgt Ion: 56 Resp: 4489

Ion	Ratio	Lower	Upper
56	100		
69	134.9	27.7	41.5#
84	110.6	83.1	124.7





#33

1,2-Dichloroethane-d4

Concen: 54.596 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

Instrument :

MSVOA_D

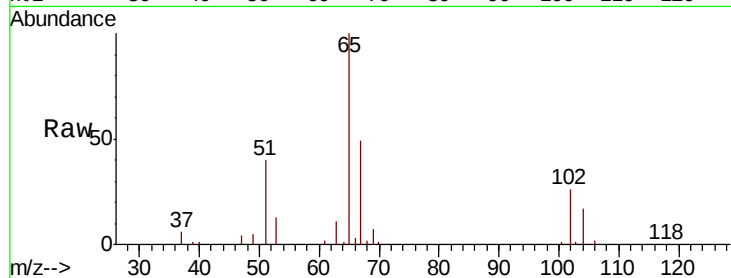
ClientSampleId :

Tot Ion: 65 Resp: 102883

Ion Ratio Lower Upper

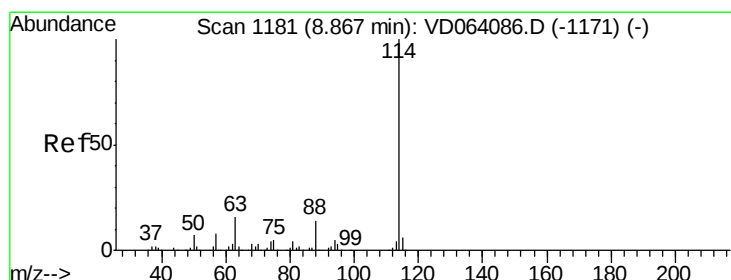
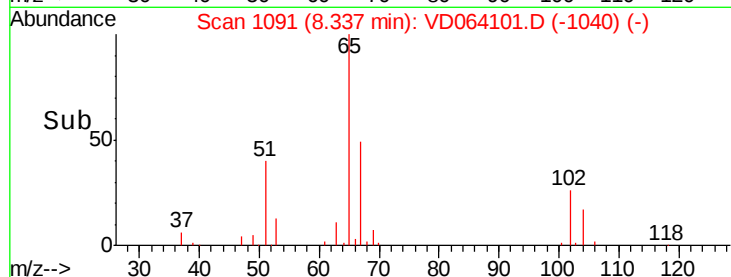
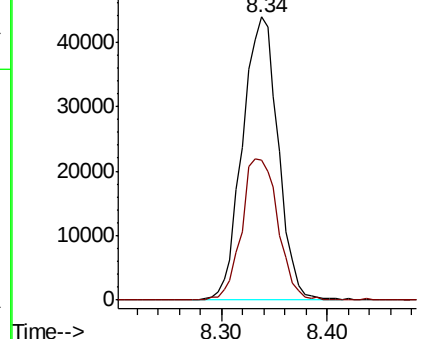
65 100

67 50.4 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: VD064101.D

Acq: 29 Oct 2019 21:03

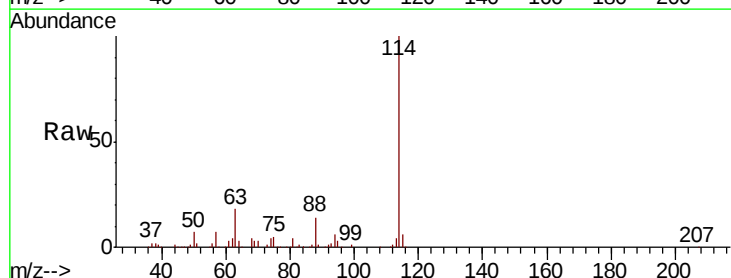
Tgt Ion: 114 Resp: 394290

Ion Ratio Lower Upper

114 100

63 17.6 0.0 32.8

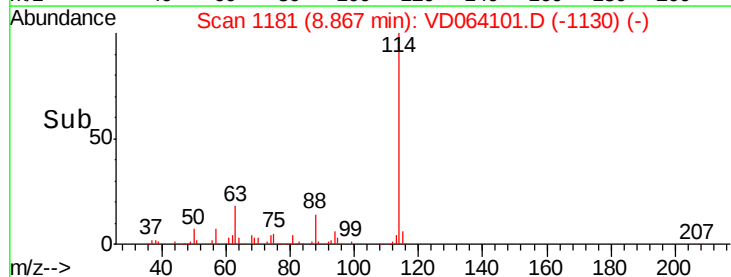
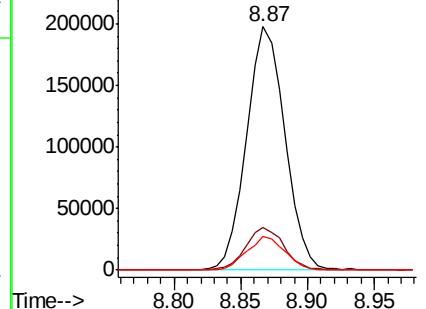
88 14.0 0.0 27.6

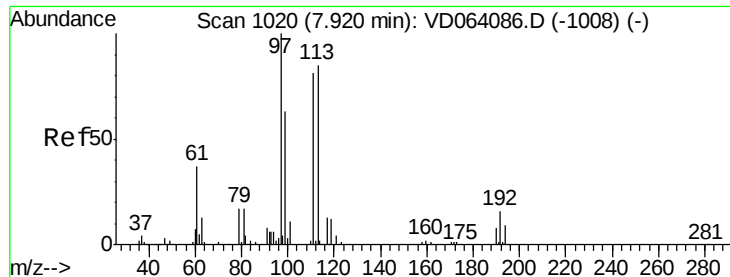


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

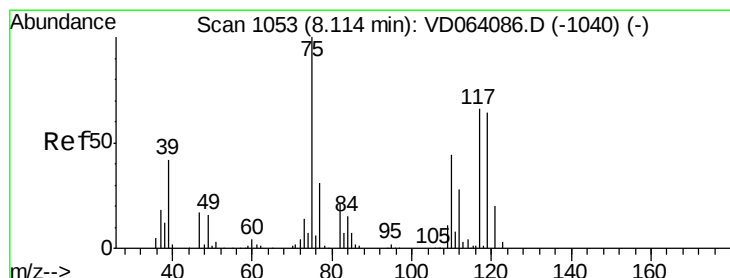
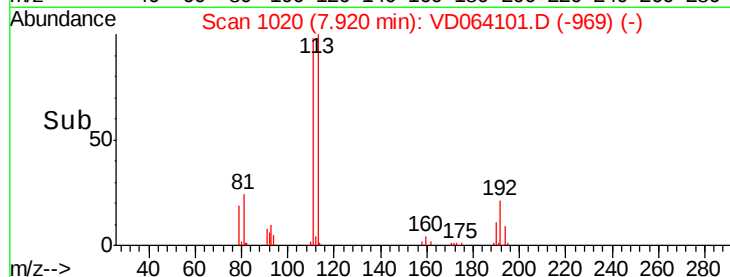
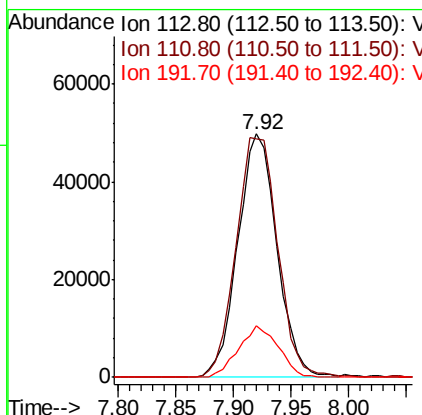
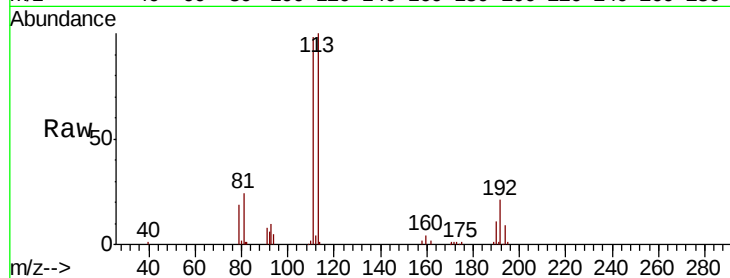




#35
 Dibromofluoromethane
 Concen: 48.475 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064101.D
 Acq: 29 Oct 2019 21:03

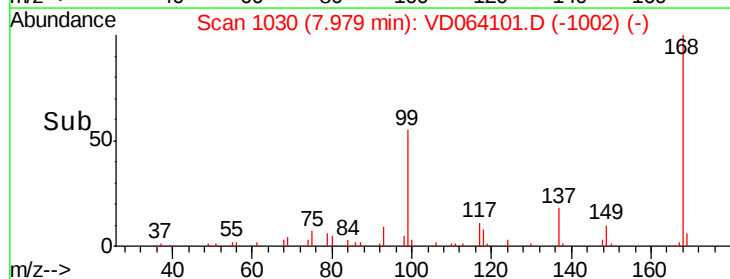
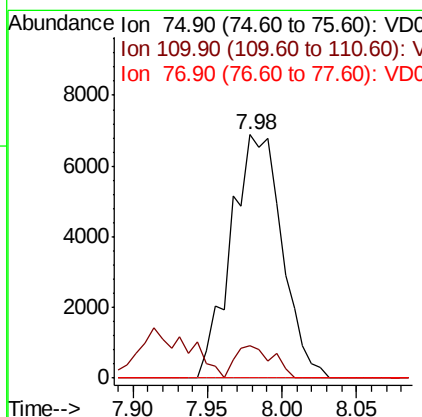
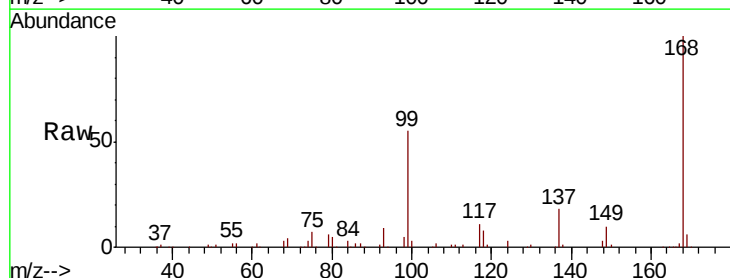
Instrument :
 MSVOA_D
 ClientSampleId :

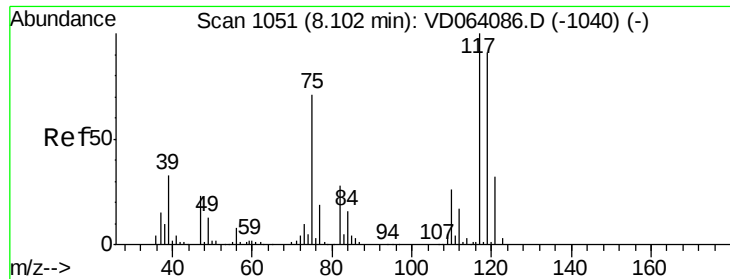
Tot Ion:113 Resp: 117590
 Ion Ratio Lower Upper
 113 100
 111 105.2 79.3 118.9
 192 21.4 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.438 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064101.D
 Acq: 29 Oct 2019 21:03

Tgt Ion: 75 Resp: 16397
 Ion Ratio Lower Upper
 75 100
 110 9.7 20.0 59.9#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.750 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

Instrument :

MSVOA_D

ClientSampleId :

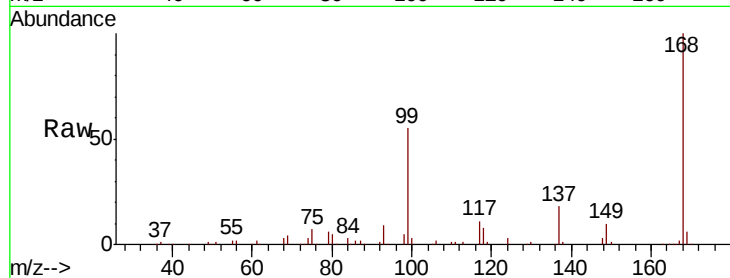
Tot Ion:117 Resp: 23179

Ion Ratio Lower Upper

117 100

119 7.9 72.6 108.8#

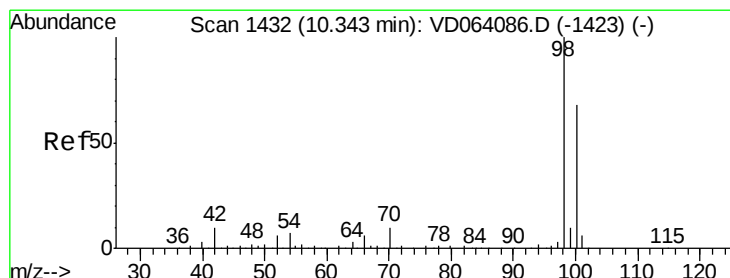
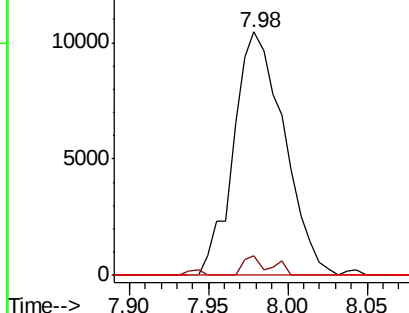
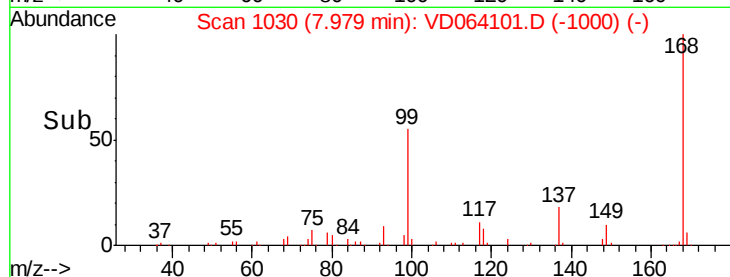
121 0.0 25.8 38.6#



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



#50

Toluene-d8

Concen: 48.650 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064101.D

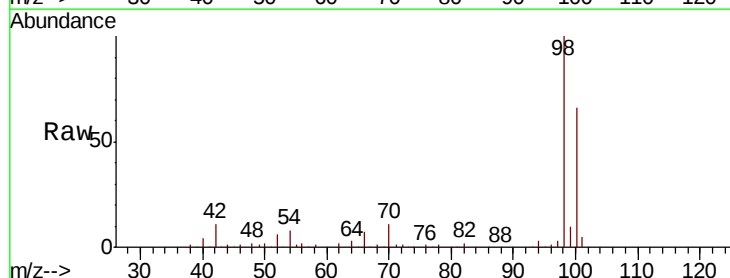
Acq: 29 Oct 2019 21:03

Tgt Ion: 98 Resp: 471955

Ion Ratio Lower Upper

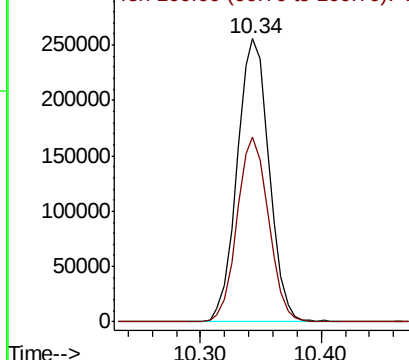
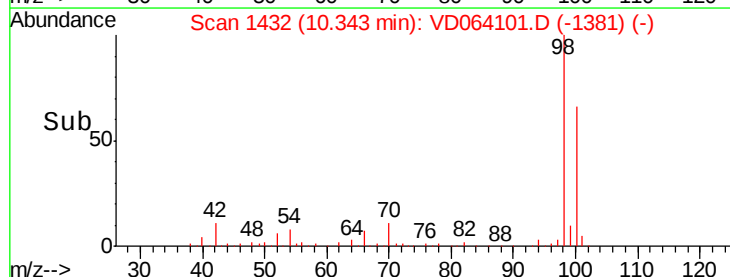
98 100

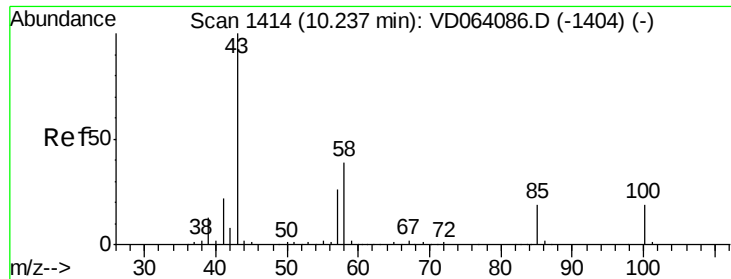
100 64.5 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.586 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.11 min

Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

Instrument :

MSVOA_D

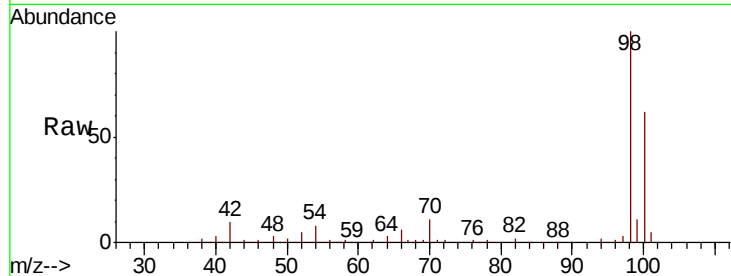
ClientSampleID :

Tot Ion: 43 Resp: 1984

Ion Ratio Lower Upper

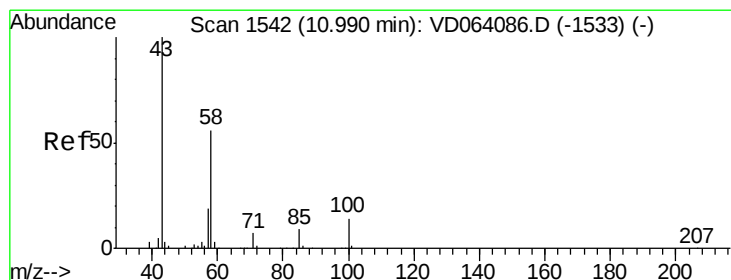
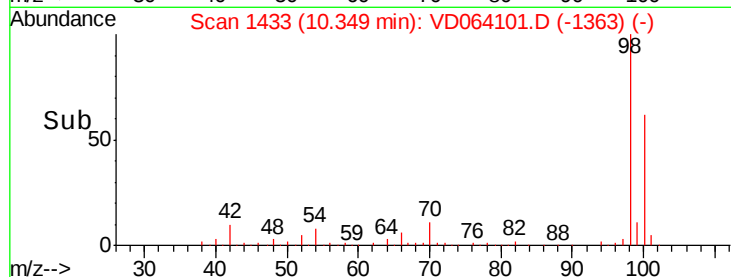
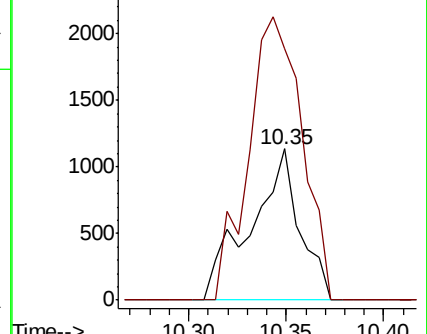
43 100

58 204.3 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#59

2-Hexanone

Concen: 9.075 ug/l

RT: 11.00 min Scan# 1544

Delta R.T. 0.01 min

Lab File: VD064101.D

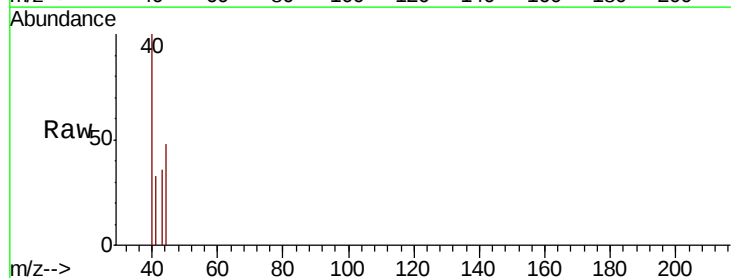
Acq: 29 Oct 2019 21:03

Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

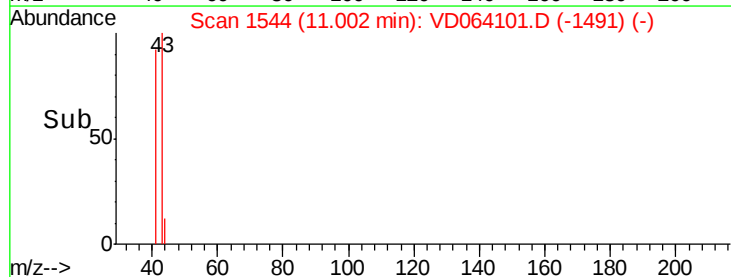
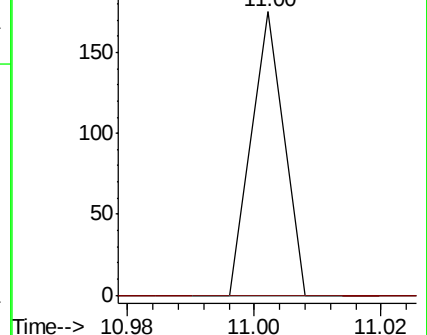
43 100

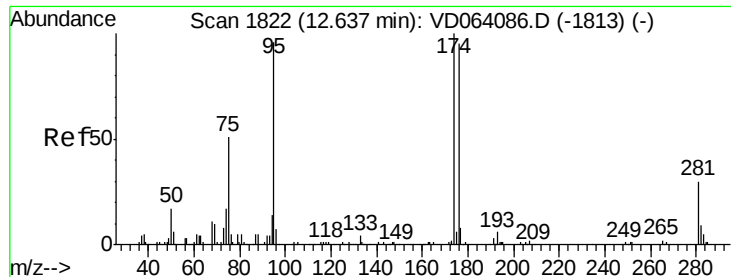
58 0.0 29.2 87.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 50.410 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

Instrument :

MSVOA_D

ClientSampleId :

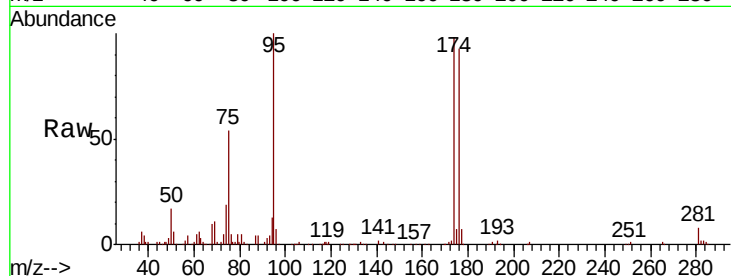
Tot Ion: 95 Resp: 162130

Ion Ratio Lower Upper

95 100

174 99.8 0.0 201.6

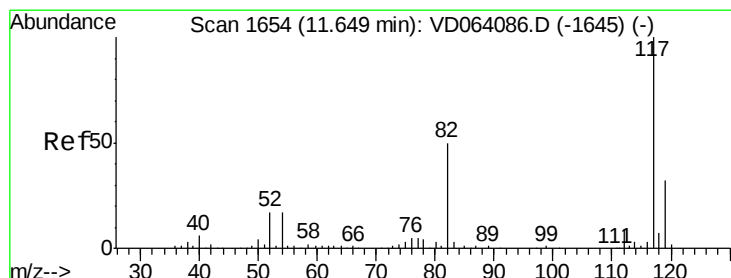
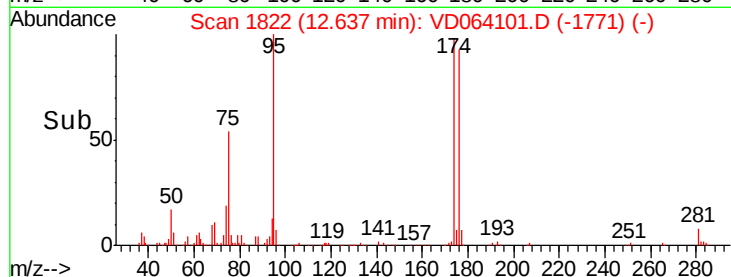
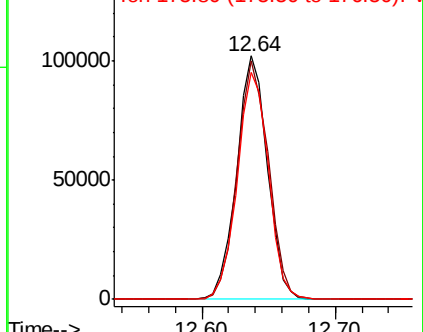
176 94.2 0.0 192.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

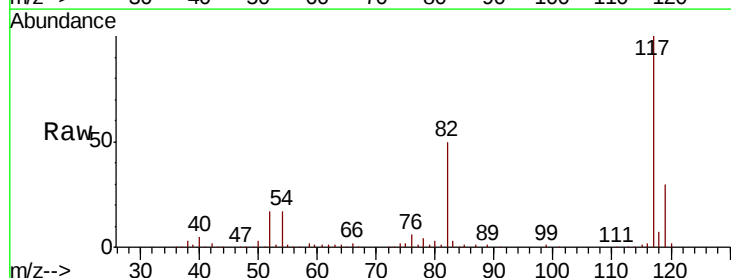
Tgt Ion: 117 Resp: 394216

Ion Ratio Lower Upper

117 100

82 49.8 40.2 60.4

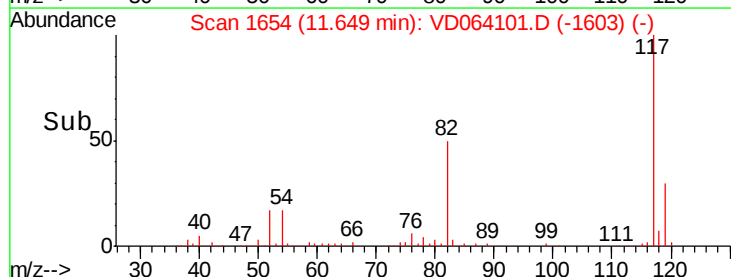
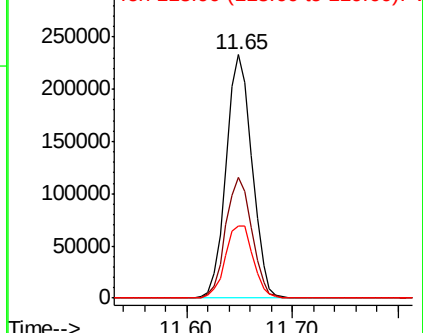
119 29.5 26.0 39.0

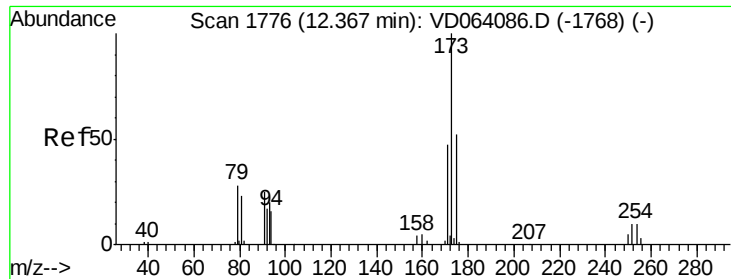


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

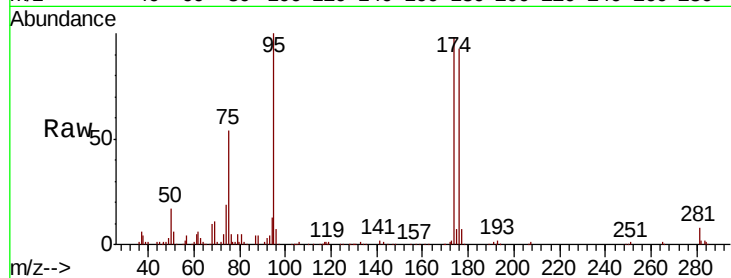




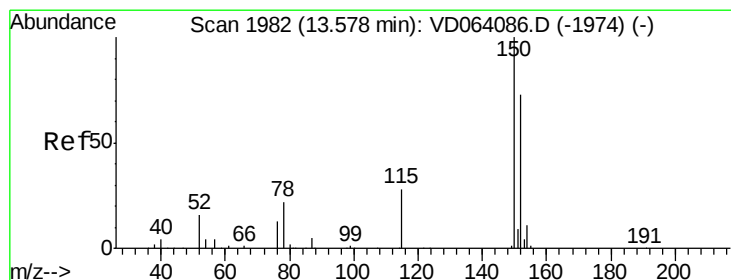
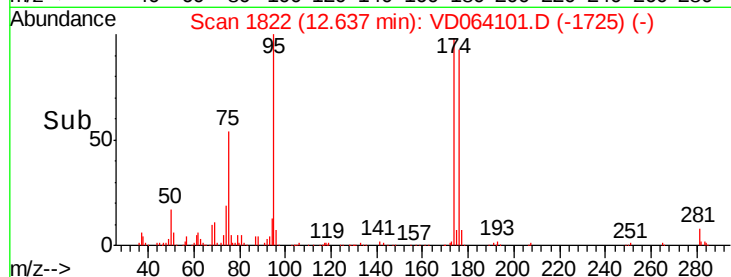
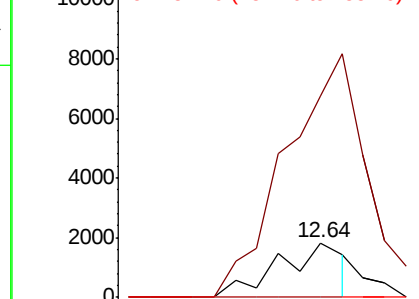
#71
Bromoform
Concen: 1.407 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.27 min
Lab File: VD064101.D
Acq: 29 Oct 2019 21:03

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:173 Resp: 2290
Ion Ratio Lower Upper
173 100
175 0.0 24.3 72.9#
254 0.0 0.0 0.0

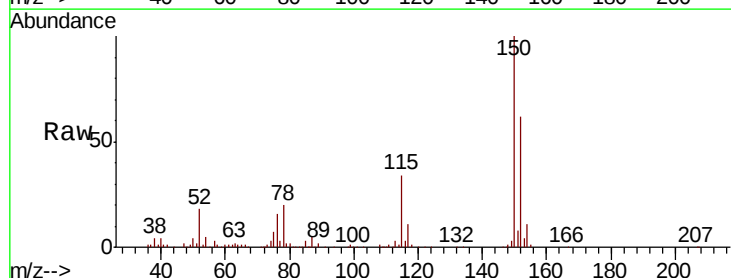


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

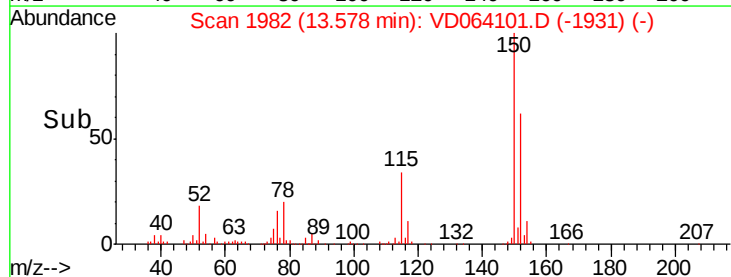
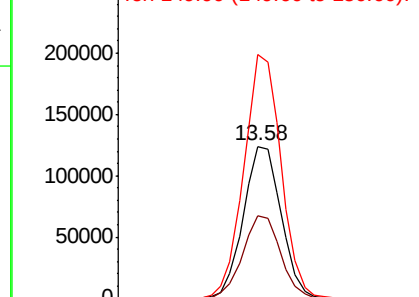


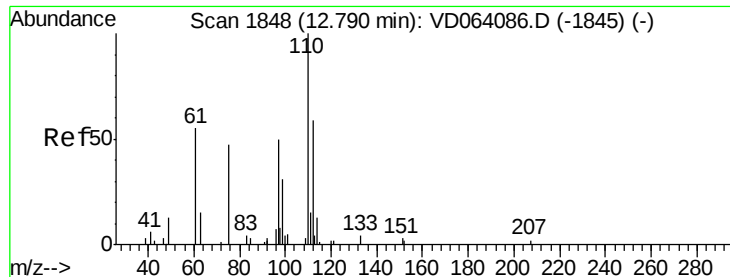
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD064101.D
Acq: 29 Oct 2019 21:03

Tgt Ion:152 Resp: 204366
Ion Ratio Lower Upper
152 100
115 54.2 26.2 78.6
150 157.4 0.0 338.8



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: 61.725 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

Instrument :

MSVOA_D

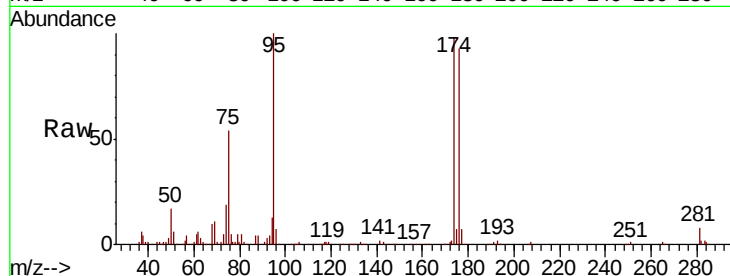
ClientSampleId :

Tot Ion: 75 Resp: 84762

Ion Ratio Lower Upper

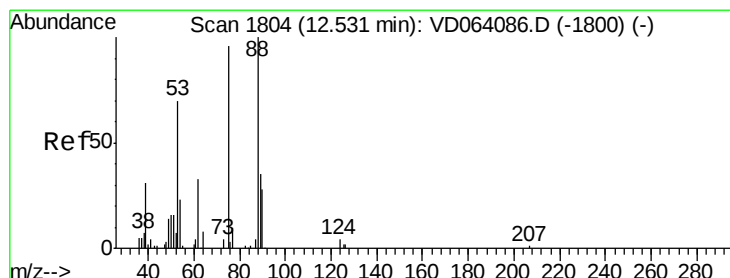
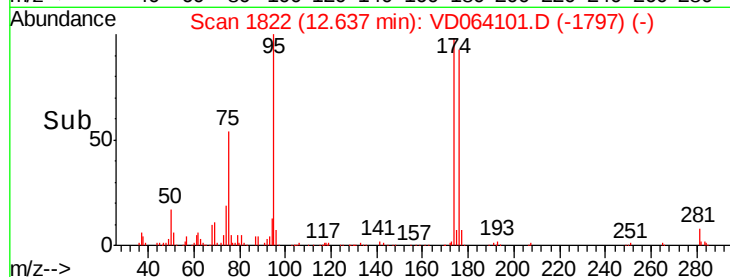
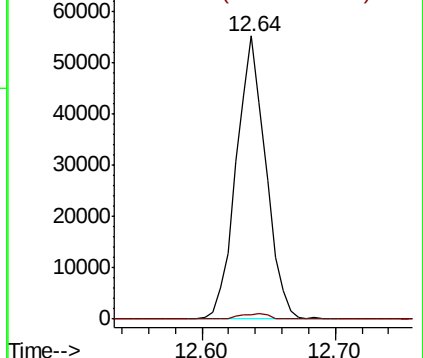
75 100

77 1.8 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: 126.058 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064101.D

Acq: 29 Oct 2019 21:03

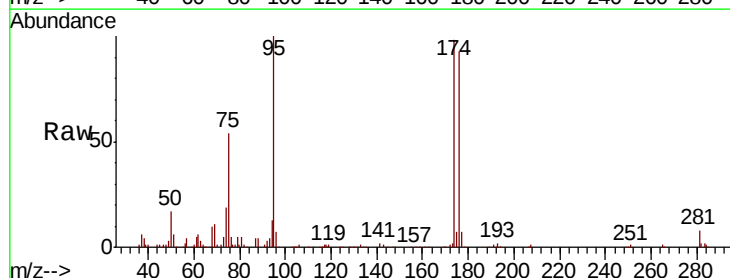
Tgt Ion: 75 Resp: 84762

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

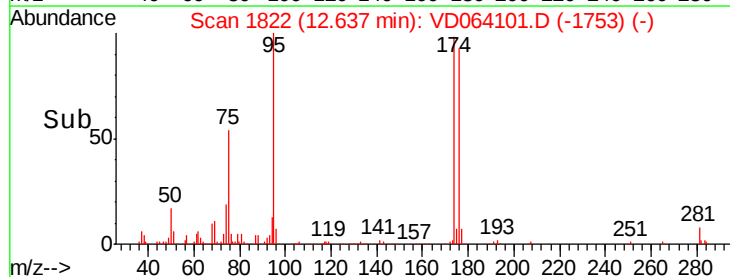
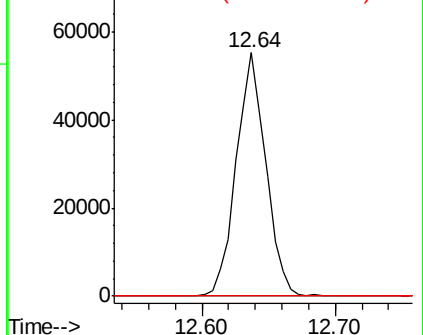
89 0.0 36.9 55.3#

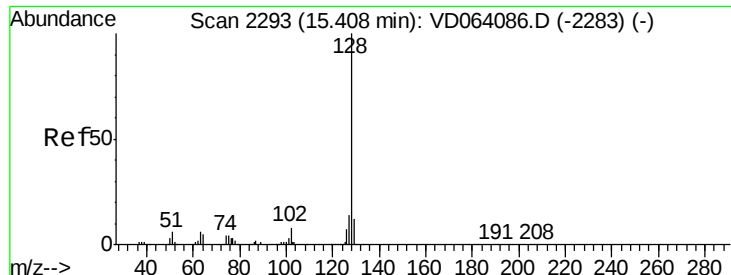


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95
Naphthalene
Concen: 1.327 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. -0.01 min
Lab File: VD064101.D
Acq: 29 Oct 2019 21:03

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.9	16.3
129	12.6	8.8	13.2

