

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120519\
 Data File : VD064436.D
 Acq On : 05 Dec 2019 15:07
 Operator : VA/SY
 Sample : K6147-09
 Misc : 4.64G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P001-WC009

Quant Time: Dec 06 05:55:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	625264	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	965711	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	862403	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	385649	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	260950	46.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.22%	
35) Dibromofluoromethane	7.92	113	290615	47.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.52%	
50) Toluene-d8	10.34	98	1154092	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
62) 4-Bromofluorobenzene	12.64	95	356511	48.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.80%	

Target Compounds

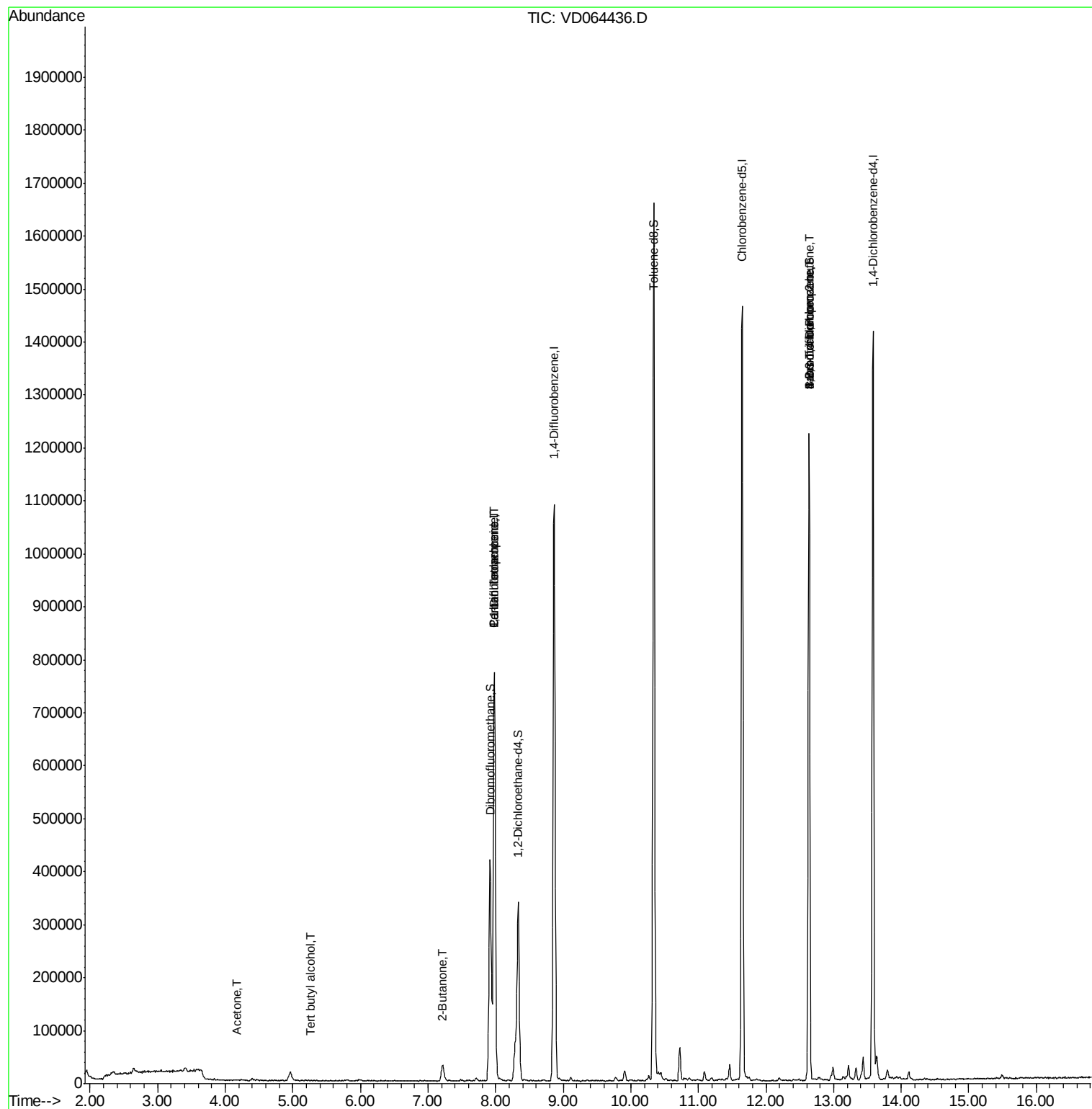
					Qvalue	
11) Tert butyl alcohol	5.25	59	365	1.013	ug/l #	100
16) Acetone	4.17	43	3228	2.822	ug/l #	88
20) Methylene Chloride	4.97	84	10584	Below Cal		98
25) 2-Butanone	7.21	43	2105	1.301	ug/l #	82
31) Cyclohexane	7.98	56	12844	Below Cal	#	7
36) 1,1-Dichloropropene	7.98	75	43443	4.756	ug/l #	48
38) Carbon Tetrachloride	7.98	117	56244	5.834	ug/l #	16
71) Bromoform	12.64	173	4551	1.142	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	184713	58.242	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	184713	126.999	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.54	75	67	Below Cal	#	1

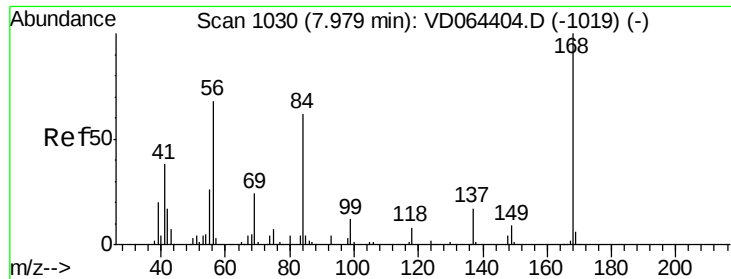
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 06 05:55:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

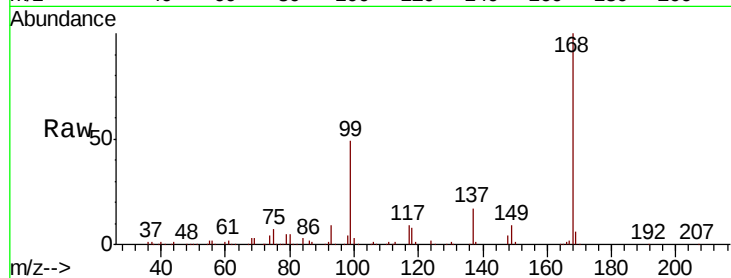
P001-WC009

Tot Ion:168 Resp: 625264

Ion Ratio Lower Upper

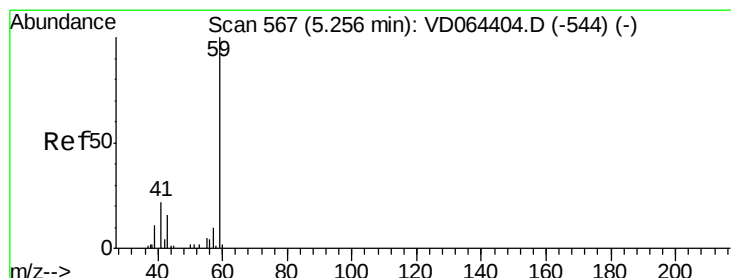
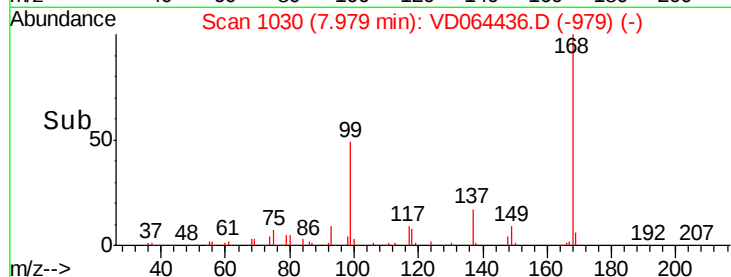
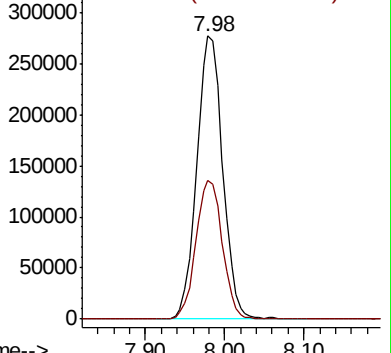
168 100

99 48.9 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 1.013 ug/l

RT: 5.25 min Scan# 566

Delta R.T. -0.01 min

Lab File: VD064436.D

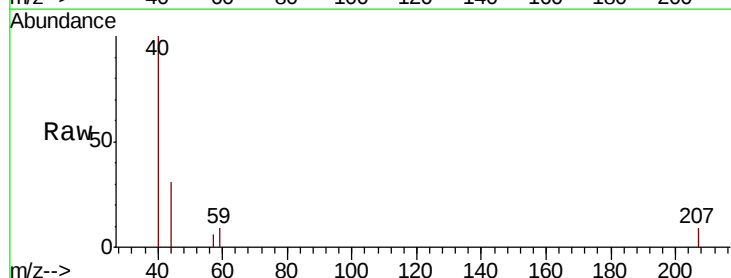
Acq: 05 Dec 2019 15:07

Tgt Ion: 59 Resp: 365

Ion Ratio Lower Upper

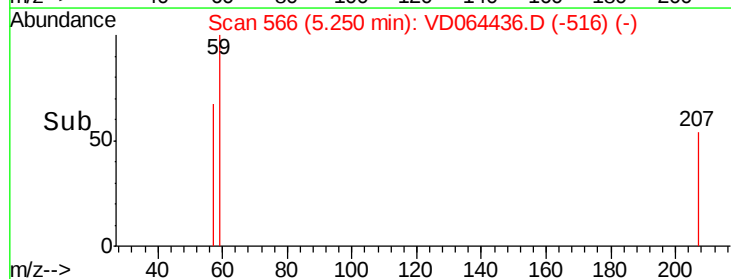
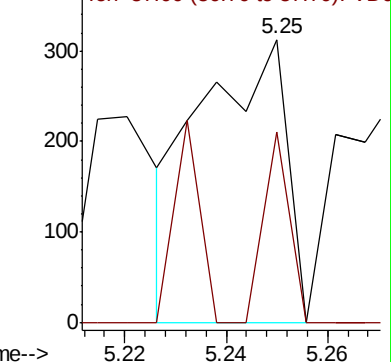
59 100

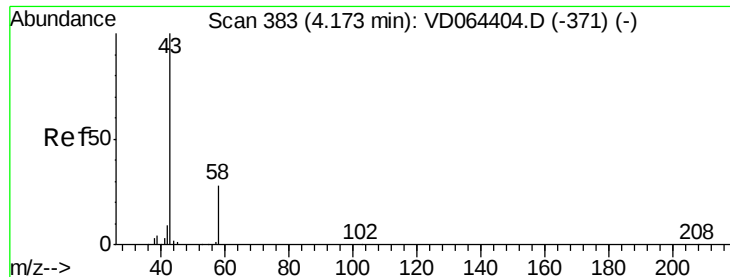
57 20.3 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 2.822 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

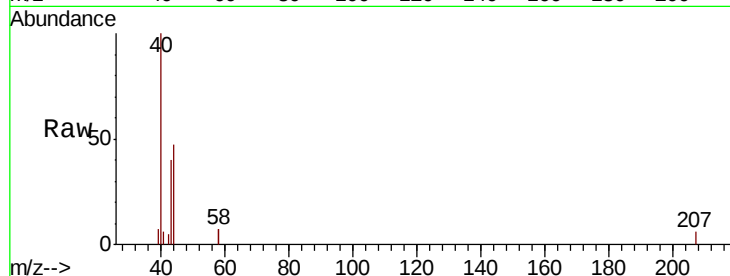
P001-WC009

Tot Ion: 43 Resp: 3228

Ion Ratio Lower Upper

43 100

58 34.7 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

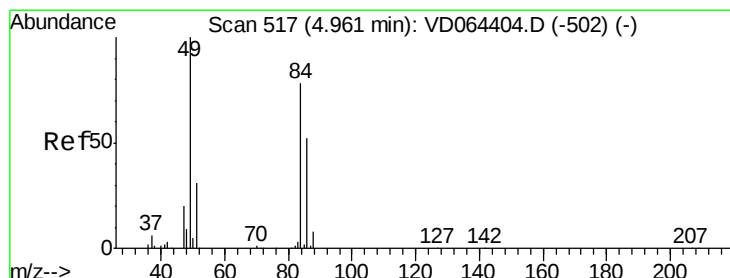
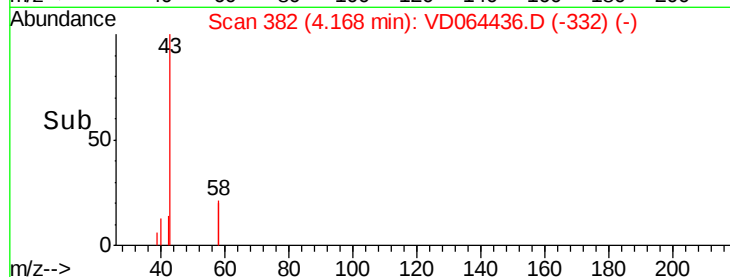
1500

1000

500

0

Time--> 4.10 4.15 4.20



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

Tgt Ion: 84 Resp: 10584

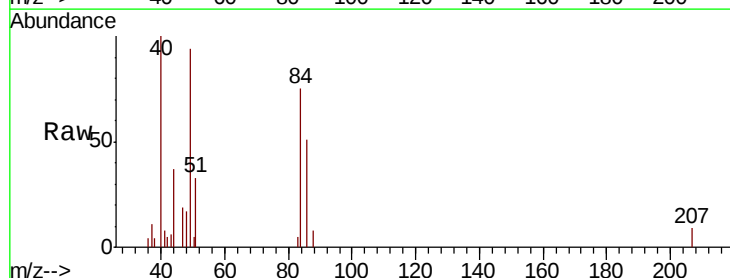
Ion Ratio Lower Upper

84 100

49 126.4 102.6 153.8

51 43.8 32.0 48.0

86 68.3 53.4 80.0



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

4.97

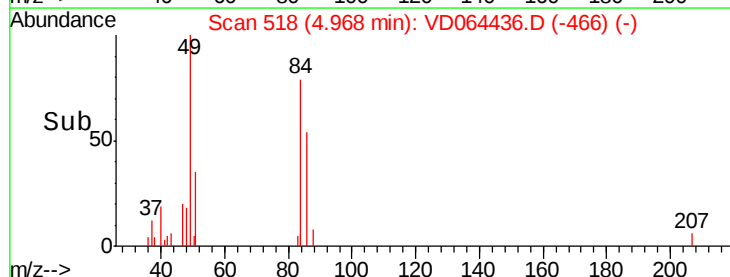
6000

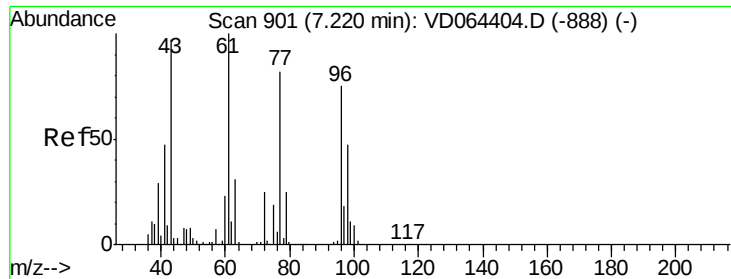
4000

2000

0

Time--> 4.90 5.00





#25

2-Butanone

Concen: 1.301 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

Instrument :

MSVOA_D

ClientSampleID :

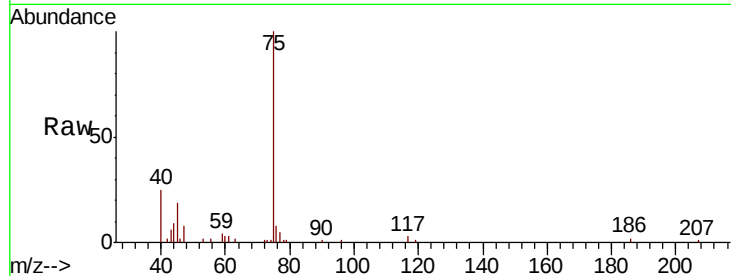
P001-WC009

Tot Ion: 43 Resp: 2105

Ion Ratio Lower Upper

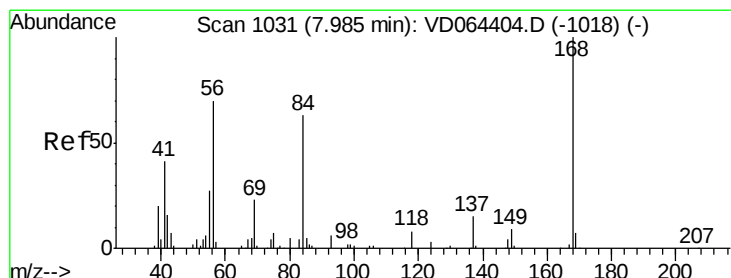
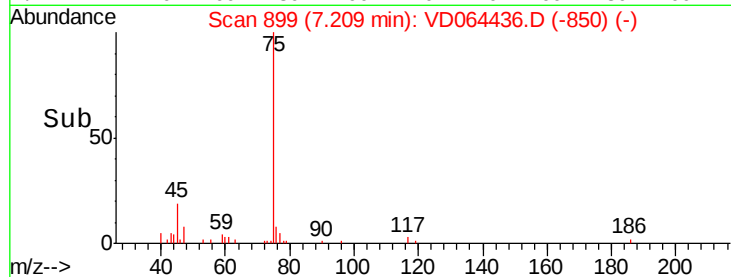
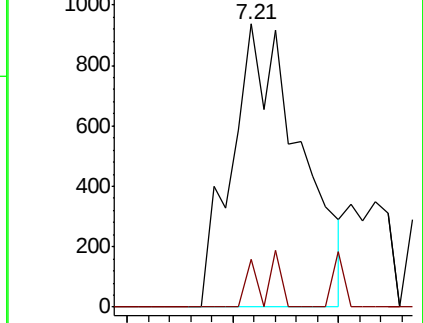
43 100

72 17.1 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

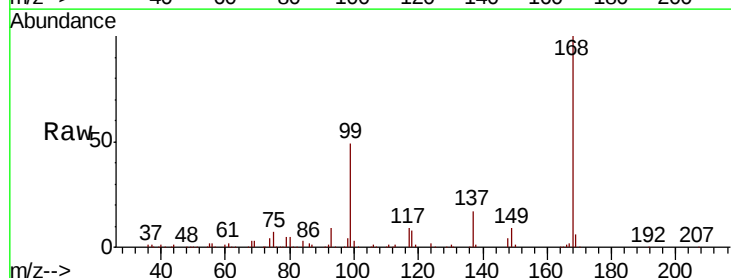
Tgt Ion: 56 Resp: 12844

Ion Ratio Lower Upper

56 100

69 151.9 26.2 39.4#

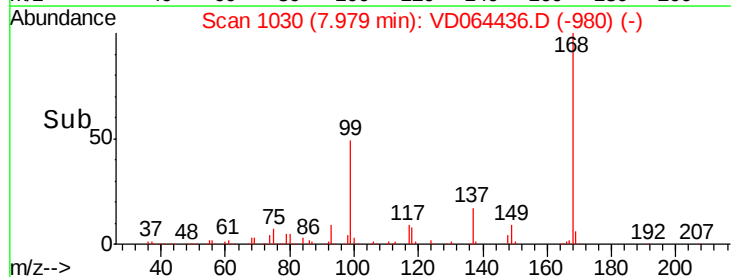
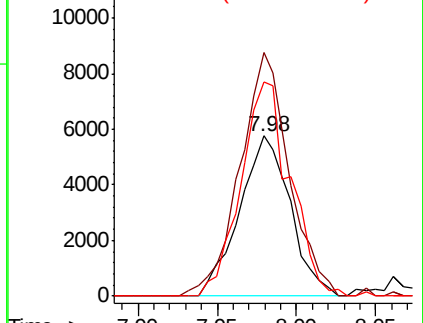
84 133.4 70.3 105.5#

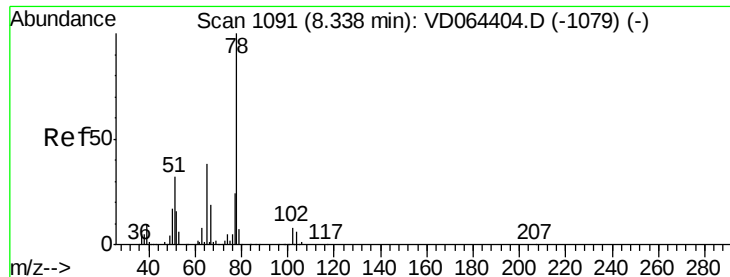


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

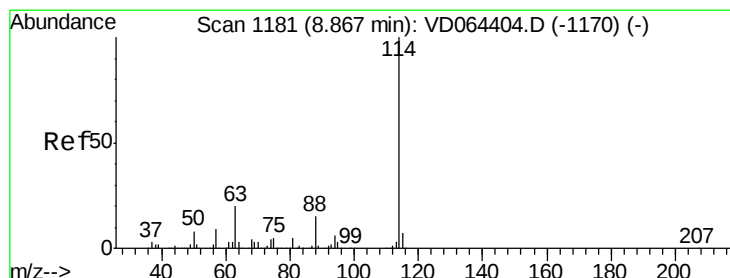
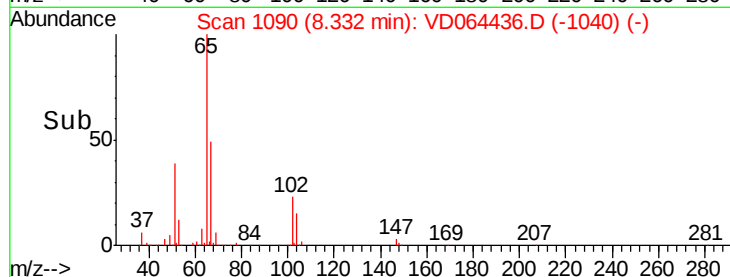
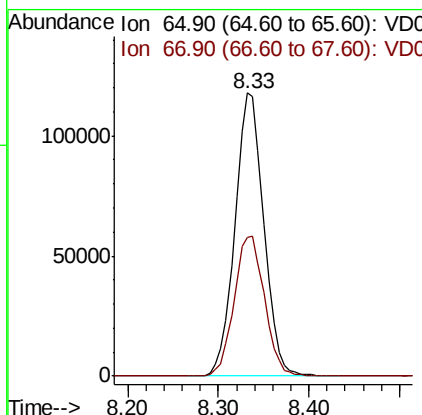
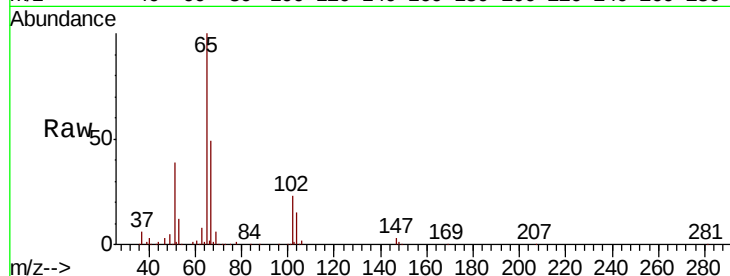




#33
 1,2-Dichloroethane-d4
 Concen: 46.108 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064436.D
 Acq: 05 Dec 2019 15:07

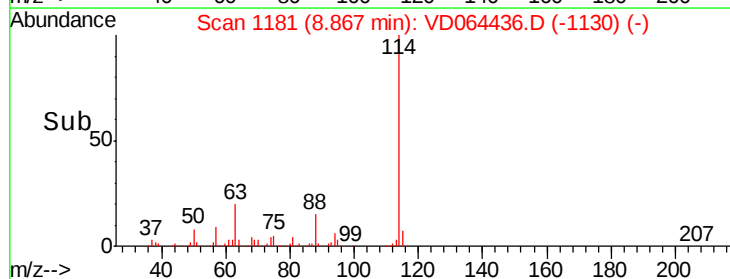
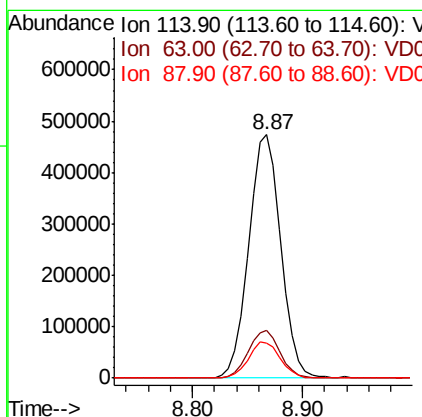
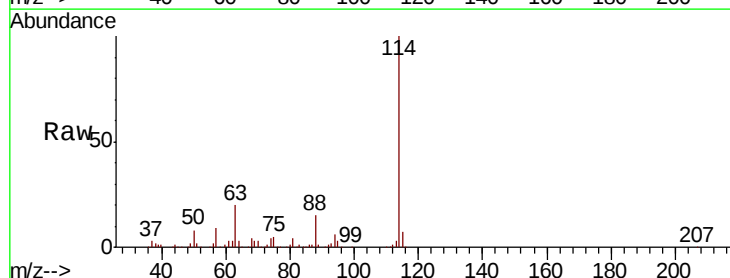
Instrument :
 MSVOA_D
 ClientSampleId :
 P001-WC009

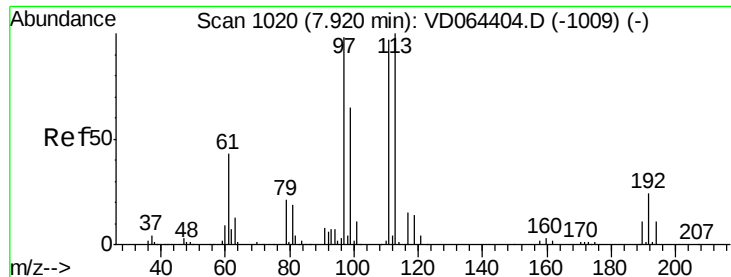
Tot Ion: 65 Resp: 260950
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064436.D
 Acq: 05 Dec 2019 15:07

Tgt Ion: 114 Resp: 965711
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 14.6 0.0 29.2

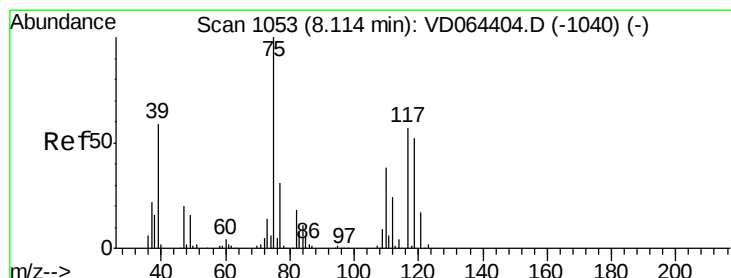
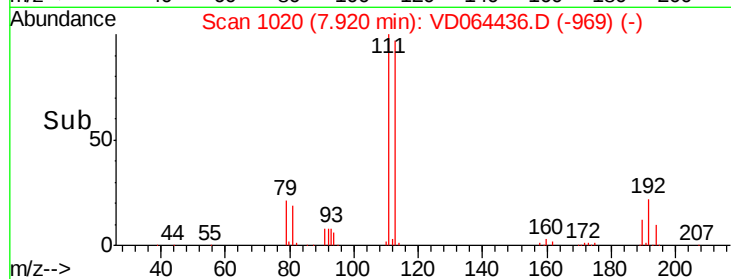
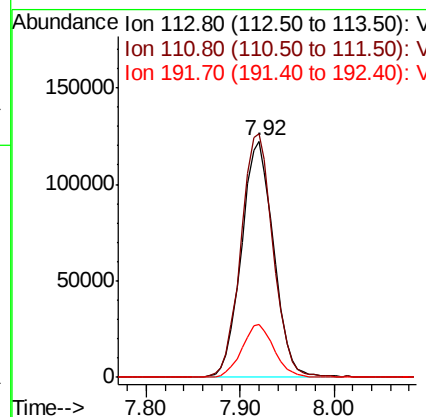
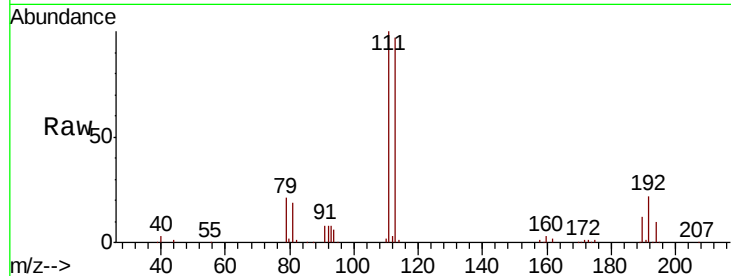




#35
 Dibromofluoromethane
 Concen: 47.763 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064436.D
 Acq: 05 Dec 2019 15:07

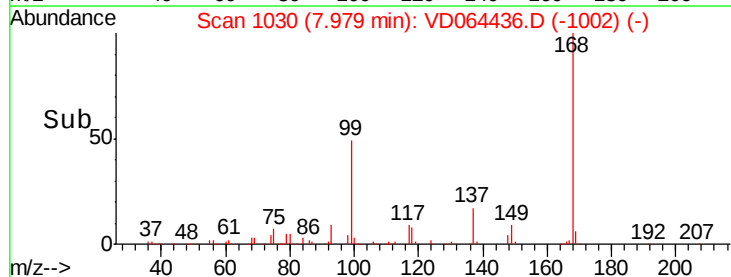
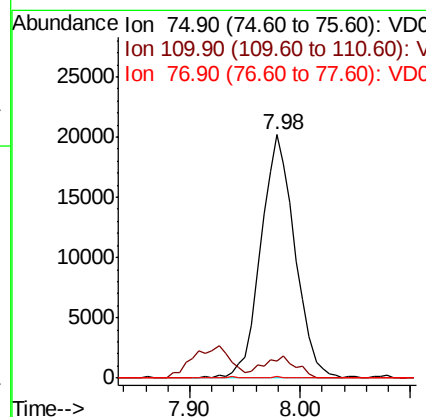
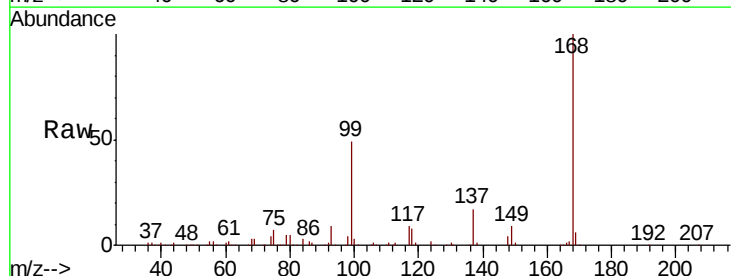
Instrument :
 MSVOA_D
 ClientSampleId :
 P001-WC009

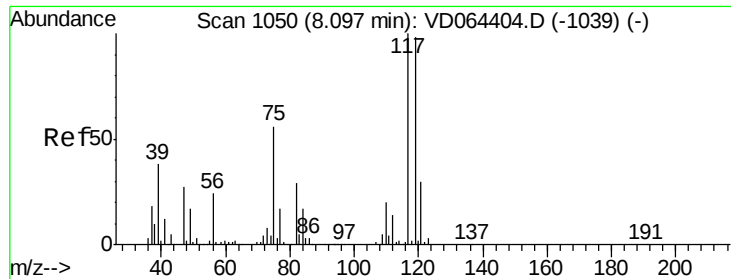
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	79.4	119.2
192	22.4	18.6	28.0



#36
 1,1-Dichloropropene
 Concen: 4.756 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064436.D
 Acq: 05 Dec 2019 15:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.6	55.8#
77	0.1	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.834 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

P001-WC009

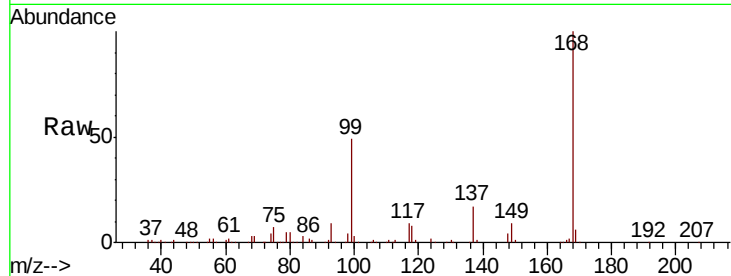
Tot Ion:117 Resp: 56244

Ion Ratio Lower Upper

117 100

119 6.3 78.8 118.2#

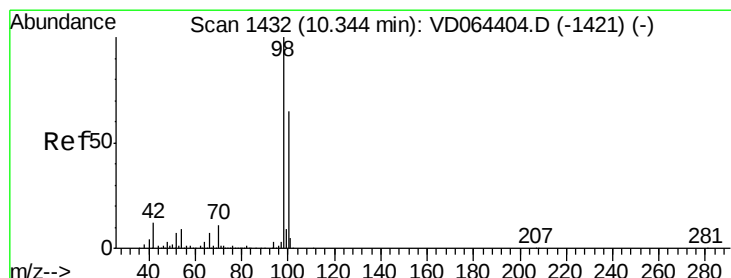
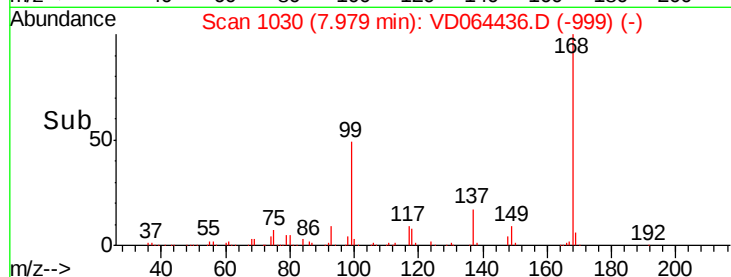
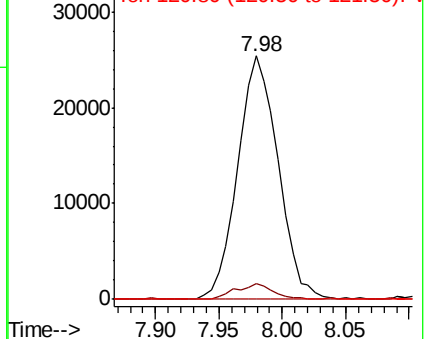
121 0.0 24.2 36.2#



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: 50.354 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064436.D

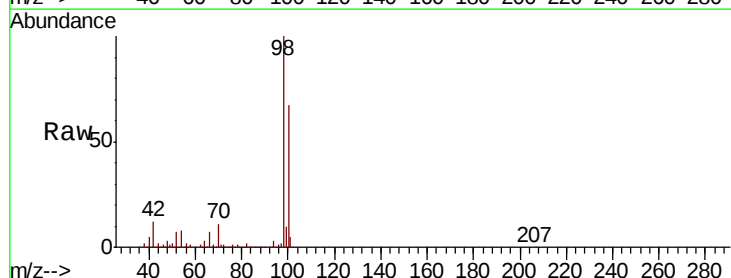
Acq: 05 Dec 2019 15:07

Tgt Ion: 98 Resp: 1154092

Ion Ratio Lower Upper

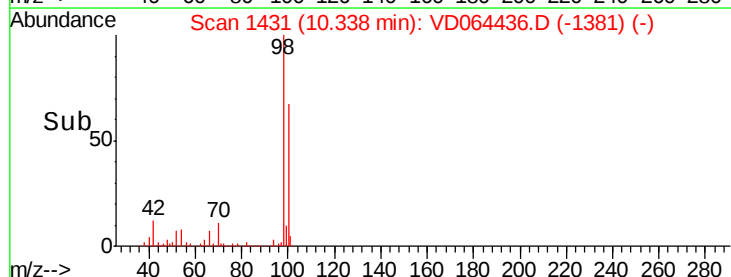
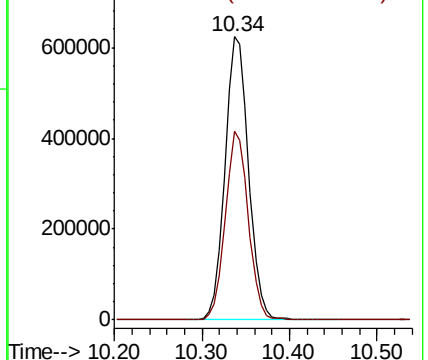
98 100

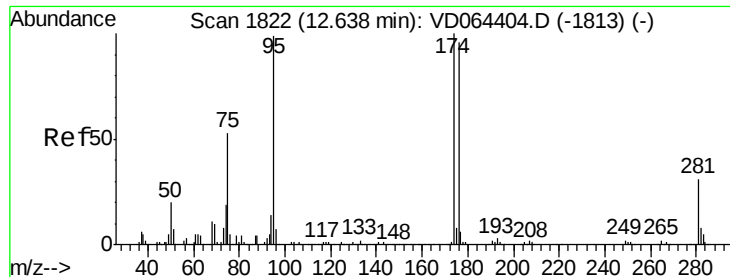
100 65.0 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 48.402 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

P001-WC009

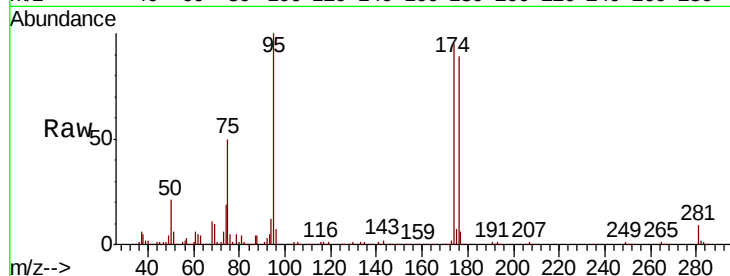
Tot Ion: 95 Resp: 356511

Ion Ratio Lower Upper

95 100

174 95.2 0.0 197.2

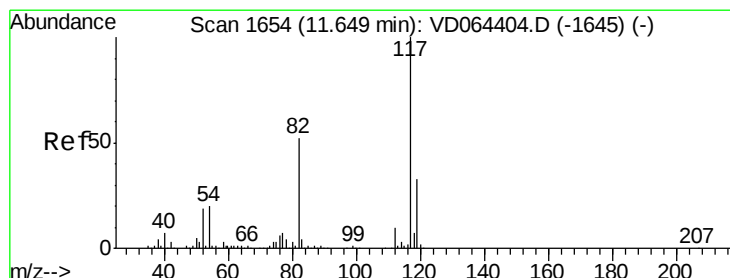
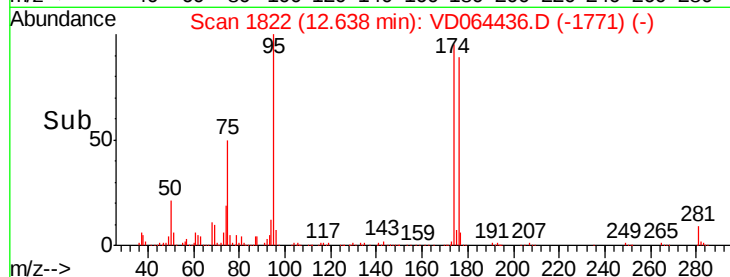
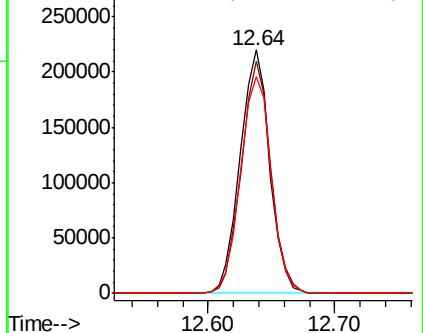
176 92.4 0.0 189.6



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: VD064436.D

Acq: 05 Dec 2019 15:07

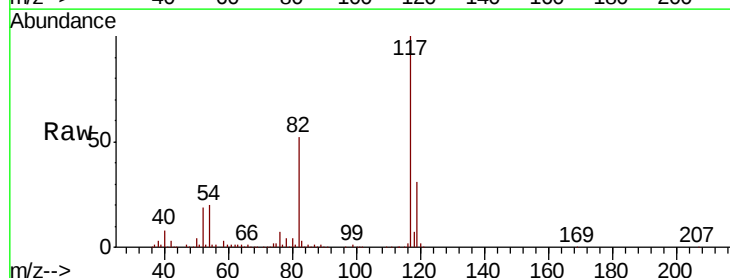
Tgt Ion: 117 Resp: 862403

Ion Ratio Lower Upper

117 100

82 52.0 41.4 62.2

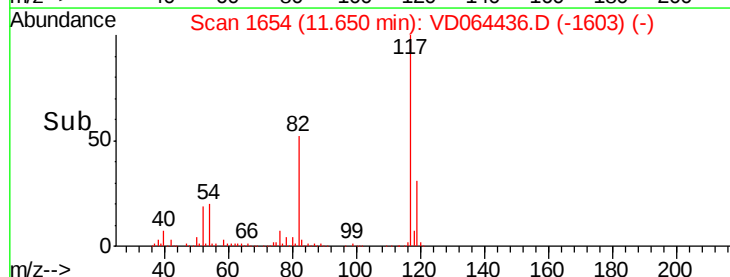
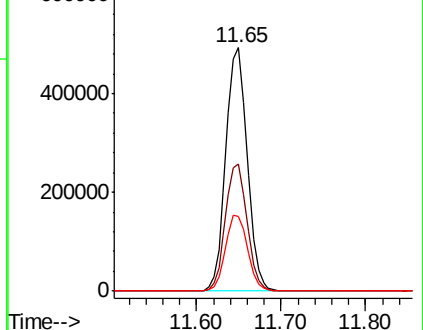
119 30.9 26.2 39.2

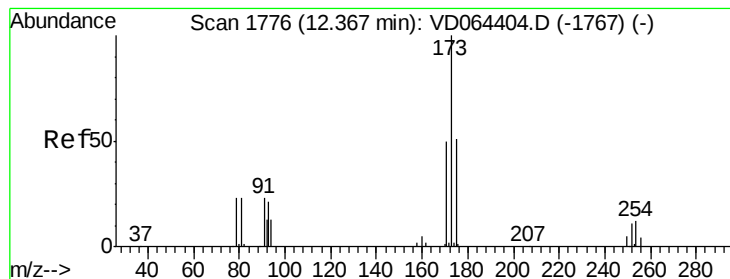


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 1.142 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

P001-WC009

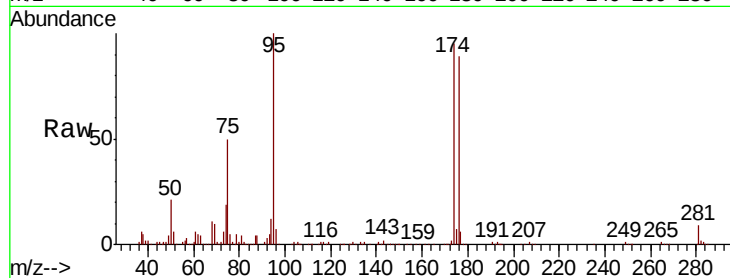
Tot Ion:173 Resp: 4551

Ion Ratio Lower Upper

173 100

175 454.7 25.3 75.8#

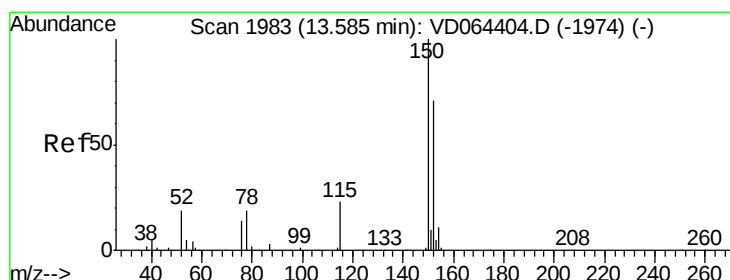
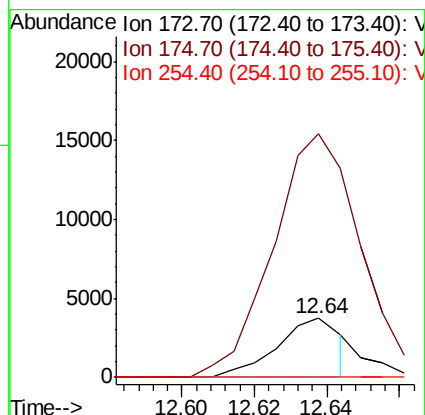
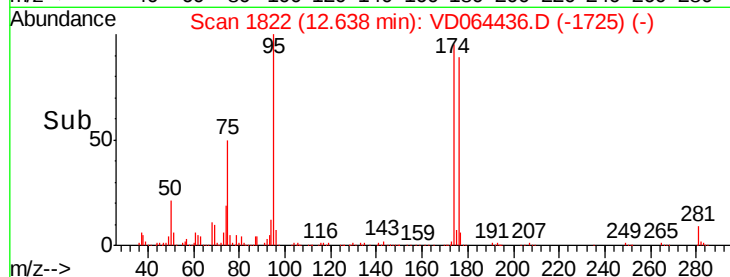
254 0.0 0.0 0.0



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# 1983

Delta R.T. 0.00 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

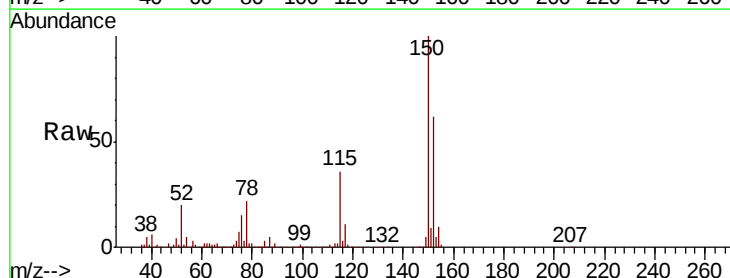
Tgt Ion:152 Resp: 385649

Ion Ratio Lower Upper

152 100

115 54.4 26.7 80.1

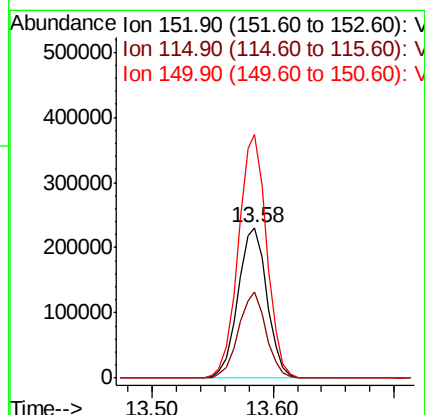
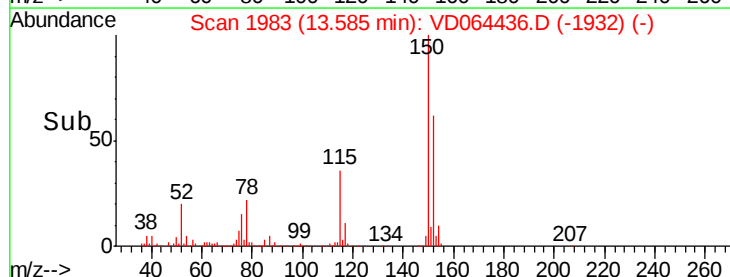
150 157.9 0.0 347.2

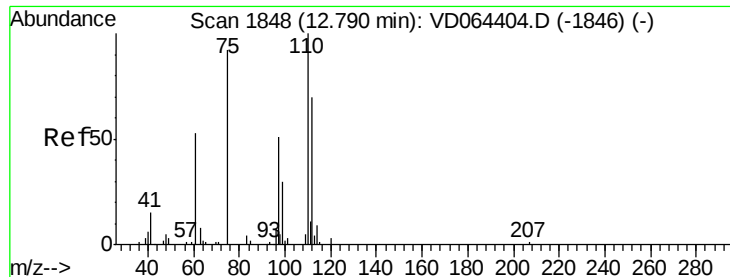


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 58.242 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

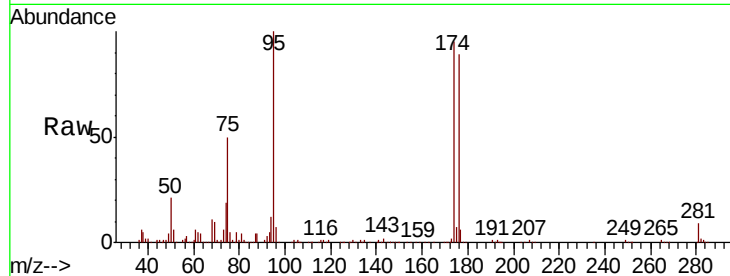
P001-WC009

Tot Ion: 75 Resp: 184713

Ion Ratio Lower Upper

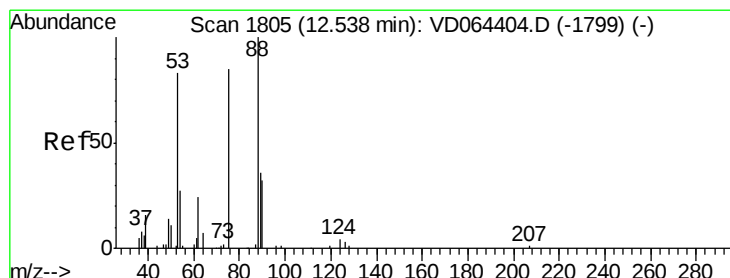
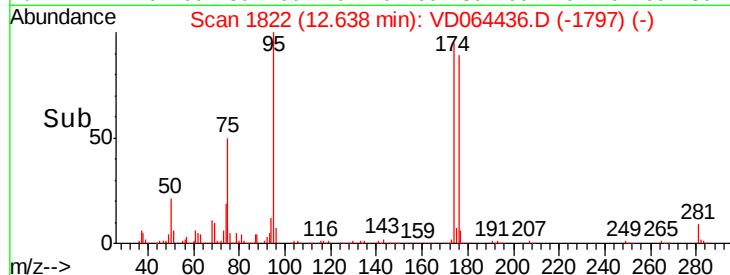
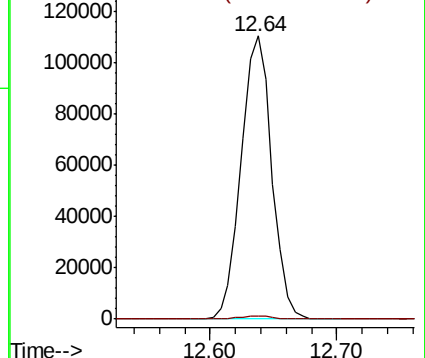
75 100

77 1.2 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: 126.999 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

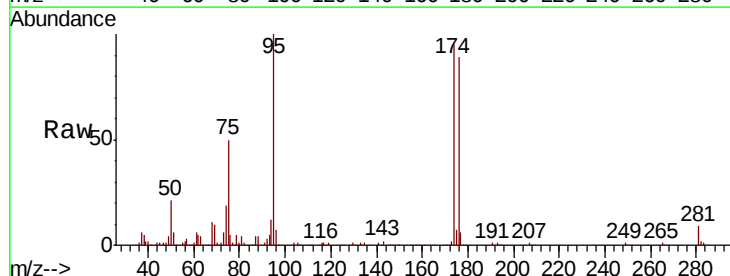
Tgt Ion: 75 Resp: 184713

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

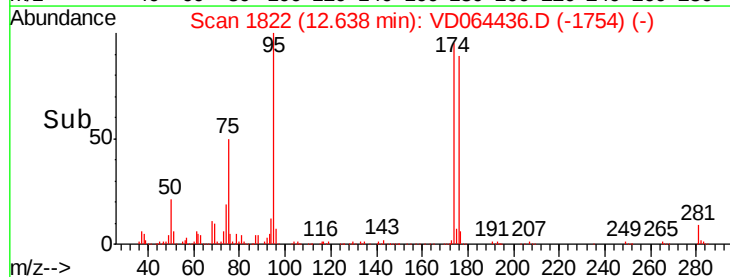
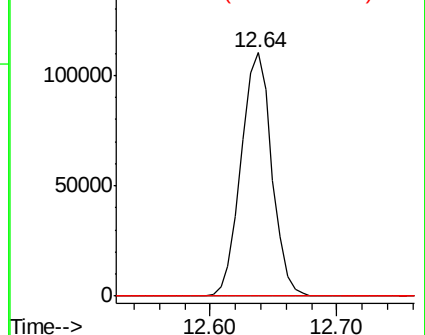
89 0.0 38.5 57.7#

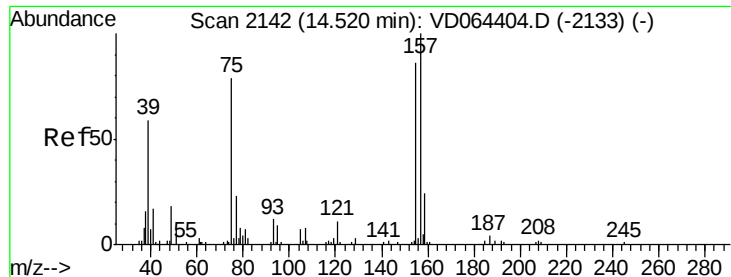


Abundance Ion 74.90 (74.60 to 75.60): VDC

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: Below Cal

RT: 14.54 min Scan# 2146

Delta R.T. 0.02 min

Lab File: VD064436.D

Acq: 05 Dec 2019 15:07

Instrument :

MSVOA_D

ClientSampleId :

P001-WC009

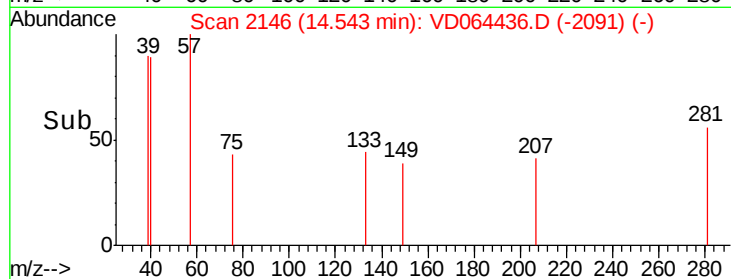
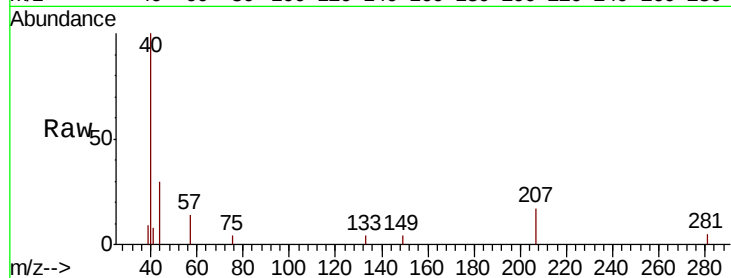
Tot Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

157 0.0 63.2 189.8#



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

