

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120519\
 Data File : VD064442.D
 Acq On : 05 Dec 2019 18:00
 Operator : VA/SY
 Sample : K6177-01
 Misc : 7.94G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 06 05:56:30 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	807370	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1168878	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	1056332	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	518553	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	323026	44.20	ug/l	0.00
Spiked Amount			Recovery	=	88.40%	
35) Dibromofluoromethane	7.92	113	345509	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	
50) Toluene-d8	10.34	98	1388774	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	12.64	95	452999	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	

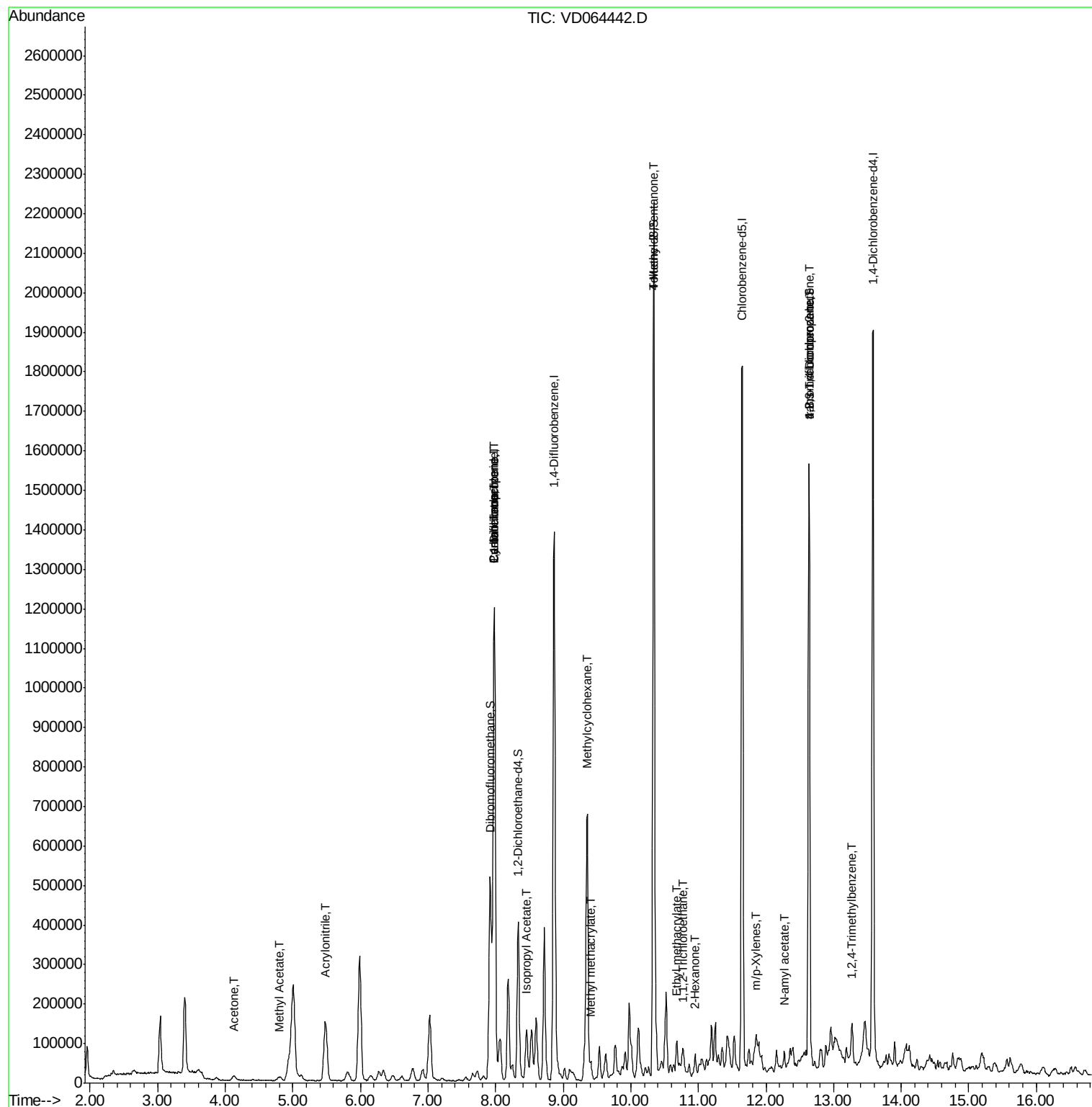
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Acrylonitrile	5.49	53	6585	4.092	ug/l #	40
16) Acetone	4.13	43	7963	5.392	ug/l #	47
18) Methyl Acetate	4.80	43	5955	1.382	ug/l #	51
20) Methylene Chloride	4.96	84	23706	Below Cal	#	85
31) Cyclohexane	7.97	56	136153	7.684	ug/l #	87
36) 1,1-Dichloropropene	7.98	75	53079	4.801	ug/l #	53
38) Carbon Tetrachloride	7.98	117	72306	6.197	ug/l #	15
39) Methylcyclohexane	9.36	83	287319	20.950	ug/l	98
43) Isopropyl Acetate	8.44	43	16944	1.837	ug/l #	51
48) Methyl methacrylate	9.41	41	7860	1.862	ug/l #	9
51) 4-Methyl-2-Pentanone	10.34	43	15206	3.332	ug/l #	28
55) 1,1,2-Trichloroethane	10.77	97	22084	3.891	ug/l #	19
56) Ethyl methacrylate	10.67	69	11623	1.606	ug/l #	23
59) 2-Hexanone	10.95	43	21368	6.747	ug/l #	34
68) m/p-Xylenes	11.86	106	16856	1.128	ug/l	94
74) N-amyl acetate	12.27	43	9012	1.065	ug/l #	50
76) 1,2,3-Trichloropropane	12.64	75	240985	56.511	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	240985	123.223	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.27	105	47635	1.554	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.55	75	128	Below Cal	#	1

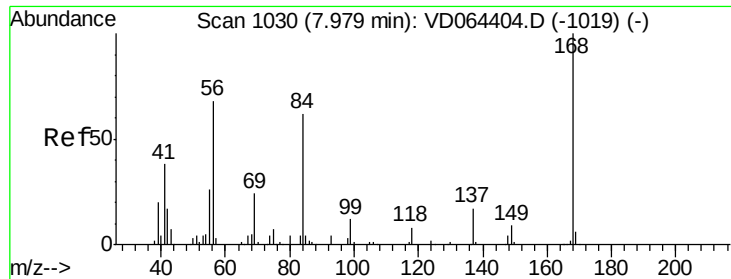
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 06 05:56:30 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: VD064442.D

Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_D

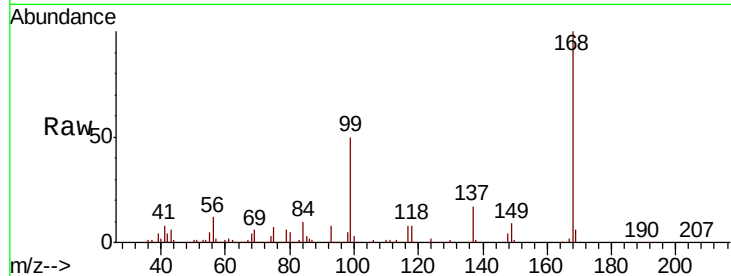
ClientSampleId :

Tot Ion:168 Resp: 807370

Ion Ratio Lower Upper

168 100

99 50.4 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

400000

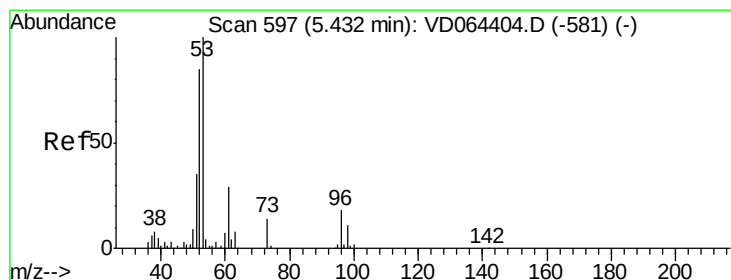
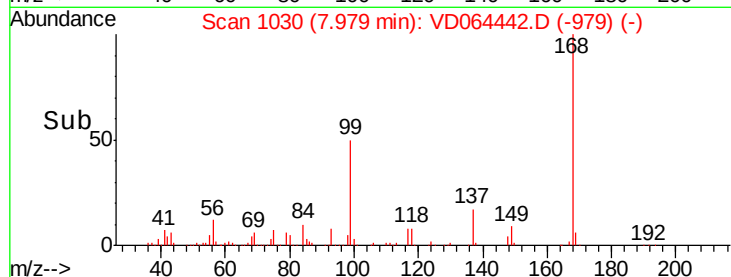
300000

200000

100000

0

Time-->



#15

Acrylonitrile

Concen: 4.092 ug/l

RT: 5.49 min Scan# 606

Delta R.T. 0.05 min

Lab File: VD064442.D

Acq: 05 Dec 2019 18:00

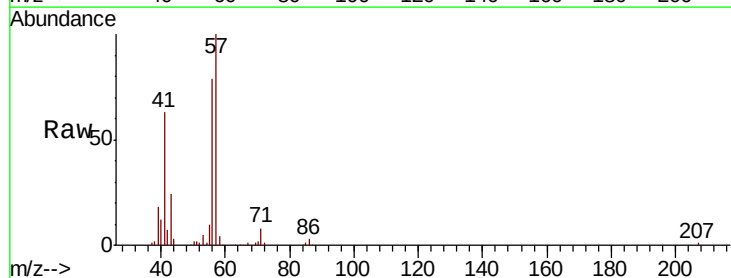
Tgt Ion: 53 Resp: 6585

Ion Ratio Lower Upper

53 100

52 16.1 67.9 101.9#

51 54.2 30.6 45.8#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC

2500

2000

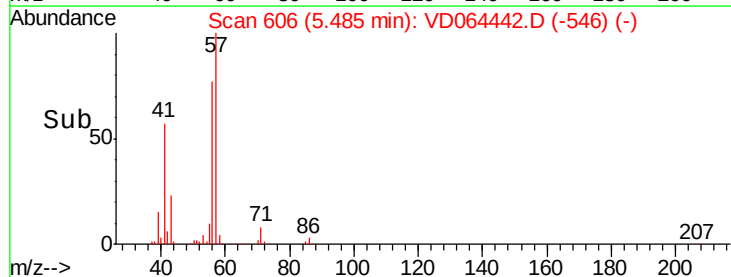
1500

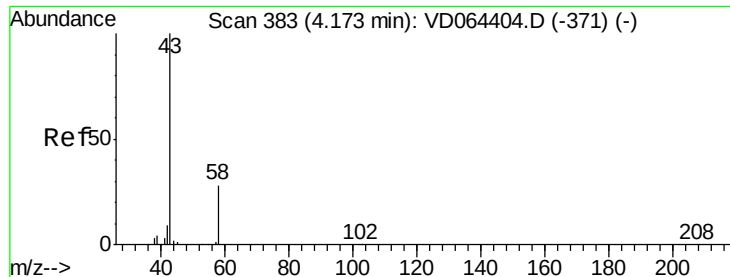
1000

500

0

Time-->





#16

Acetone

Concen: 5.392 ug/l

RT: 4.13 min Scan# 376

Delta R.T. -0.04 min

Lab File: VD064442.D

Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_D

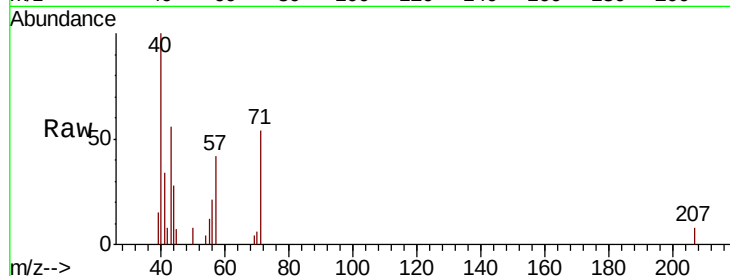
ClientSampleId :

Tot Ion: 43 Resp: 7963

Ion Ratio Lower Upper

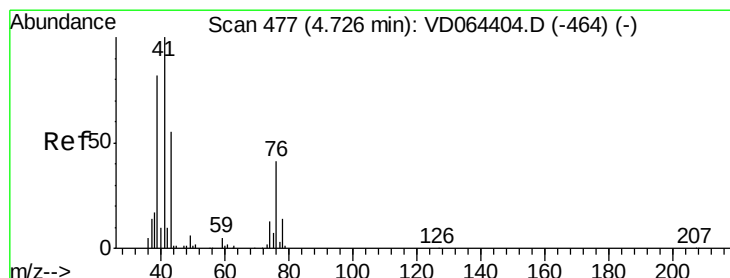
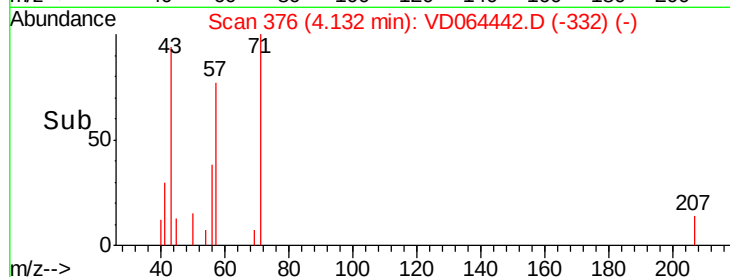
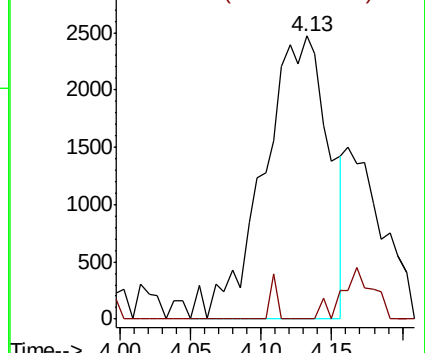
43 100

58 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 1.382 ug/l

RT: 4.80 min Scan# 489

Delta R.T. 0.07 min

Lab File: VD064442.D

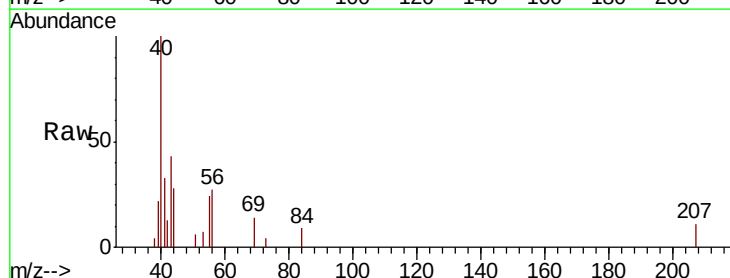
Acq: 05 Dec 2019 18:00

Tgt Ion: 43 Resp: 5955

Ion Ratio Lower Upper

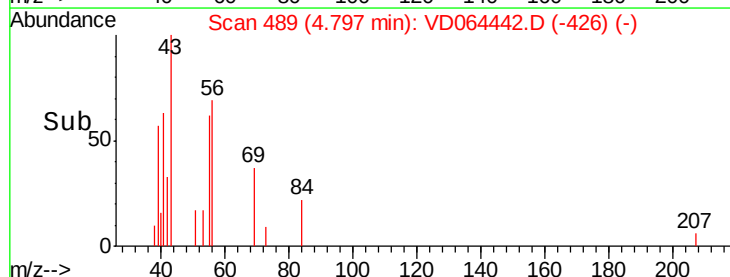
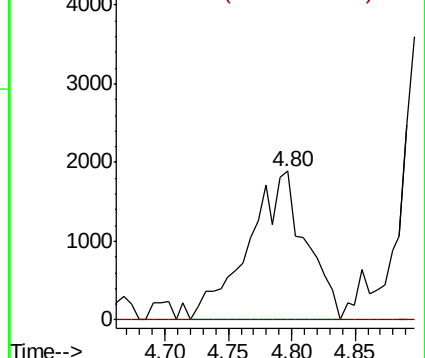
43 100

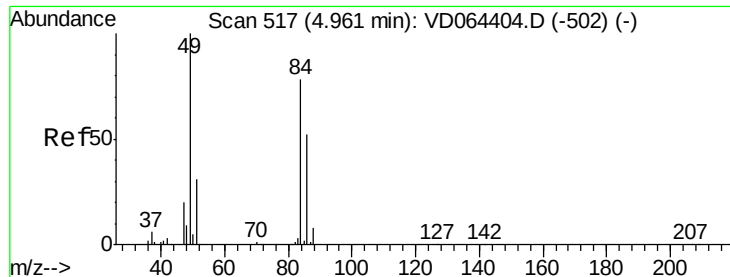
74 0.0 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

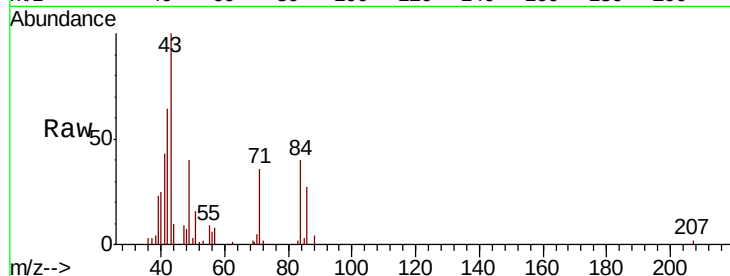




#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064442.D
Acq: 05 Dec 2019 18:00

Instrument :
MSVOA_D
ClientSampled :

Tot Ion	84	Resp	23706
Ion Ratio	Lower	Upper	
84	100		
49	98.5	102.6	153.8#
51	37.5	32.0	48.0
86	68.2	53.4	80.0



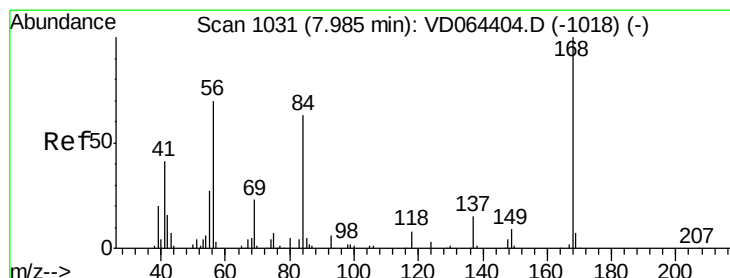
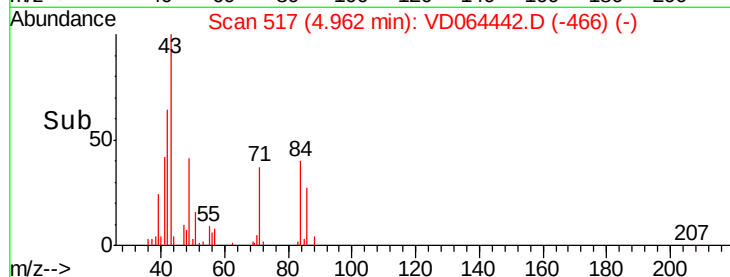
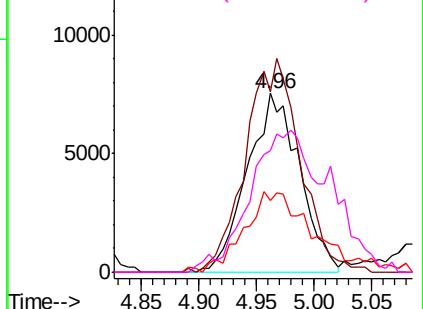
Abundance

Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

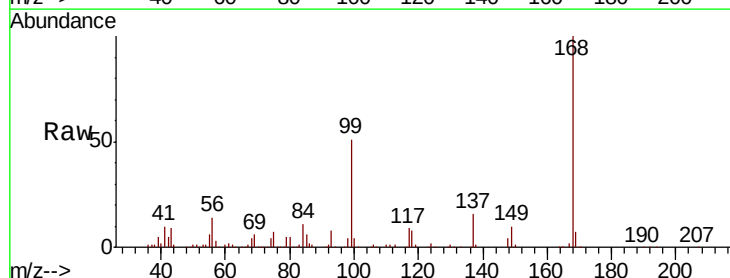
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#31
Cyclohexane
Concen: 7.684 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD064442.D
Acq: 05 Dec 2019 18:00

Tgt Ion	56	Resp	136153
Ion Ratio	Lower	Upper	
56	100		
69	42.0	26.2	39.4#
84	76.8	70.3	105.5

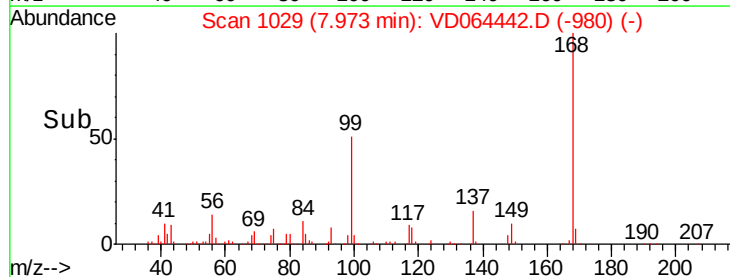
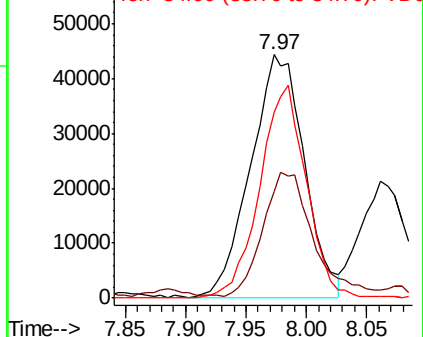


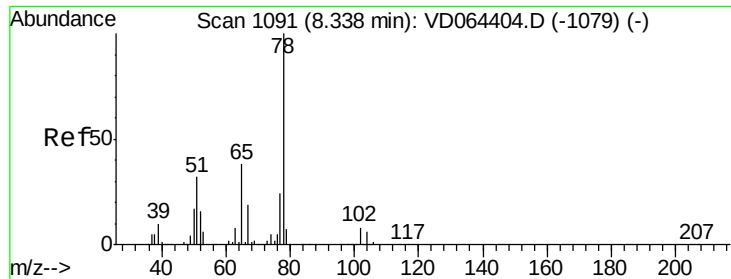
Abundance

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

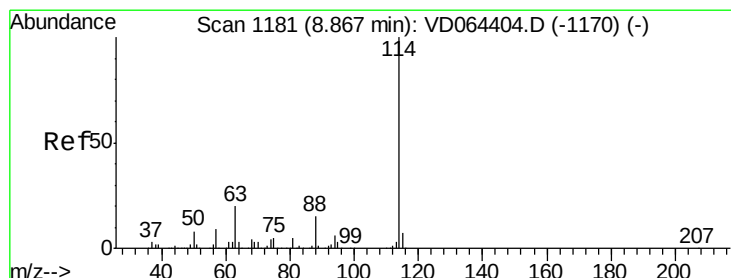
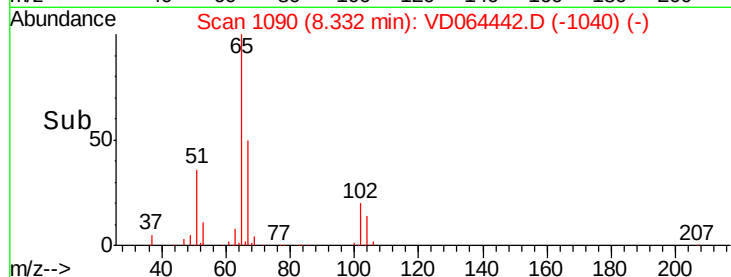
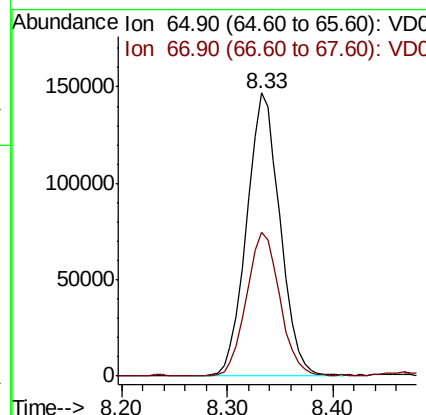
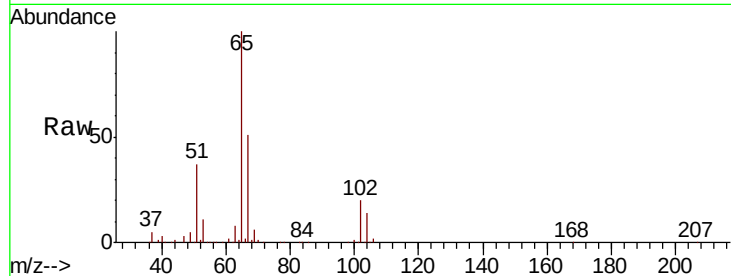




#33
 1,2-Dichloroethane-d4
 Concen: 44.202 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064442.D
 Acq: 05 Dec 2019 18:00

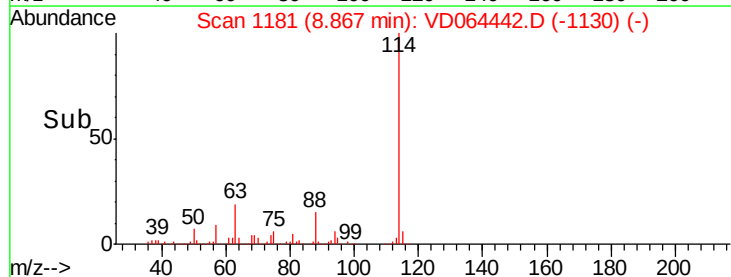
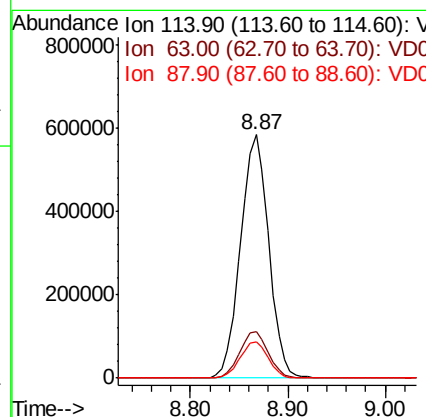
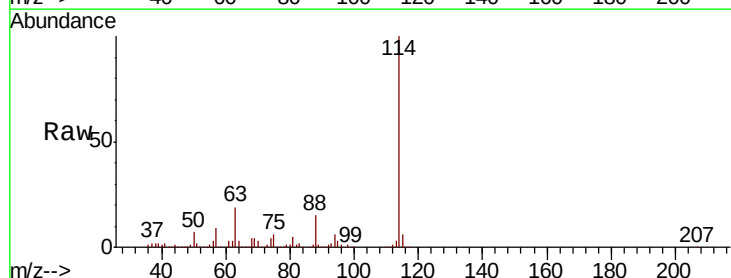
Instrument :
 MSVOA_D
 ClientSampleId :

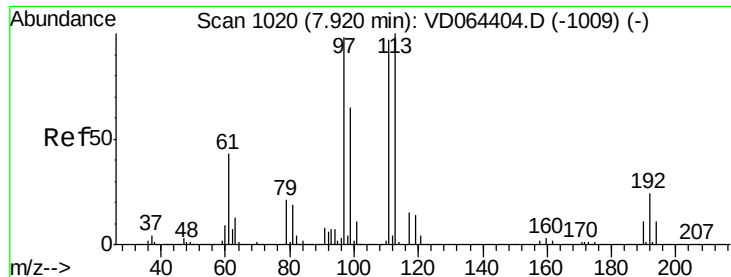
Tot Ion: 65 Resp: 323026
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064442.D
 Acq: 05 Dec 2019 18:00

Tgt Ion: 114 Resp: 1168878
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 40.0
 88 14.7 0.0 29.2

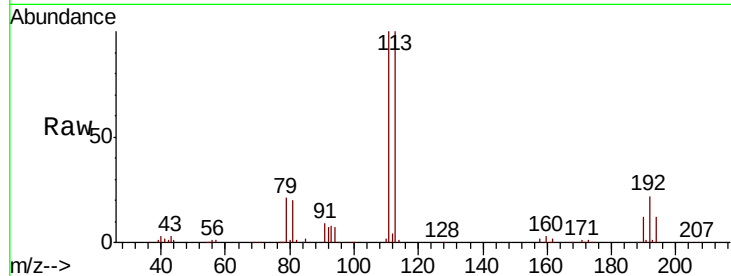




#35
 Dibromofluoromethane
 Concen: 46.915 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064442.D
 Acq: 05 Dec 2019 18:00

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	79.4	119.2
192	23.7	18.6	28.0

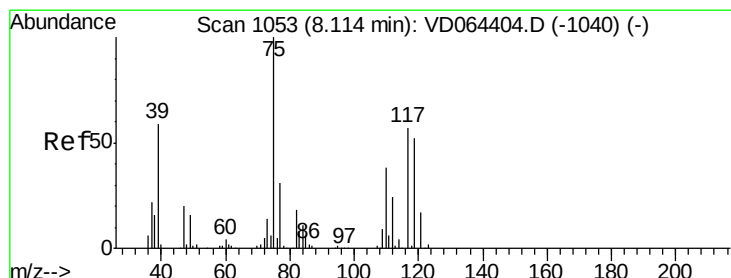
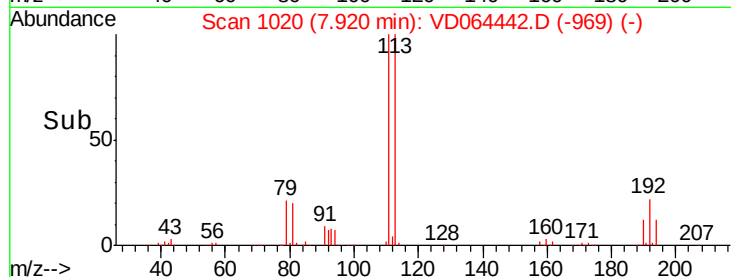
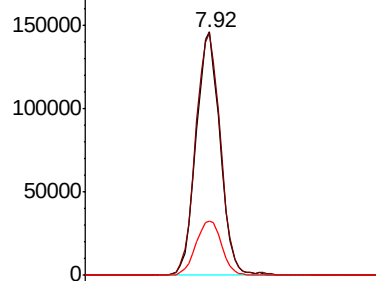


Abundance

Ion 112.80 (112.50 to 113.50): V

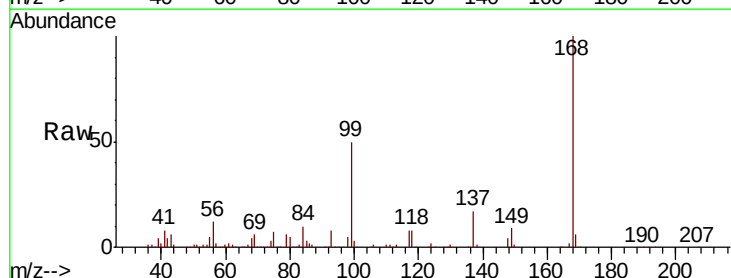
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.801 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064442.D
 Acq: 05 Dec 2019 18:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	18.6	55.8#
77	3.5	25.0	37.4#

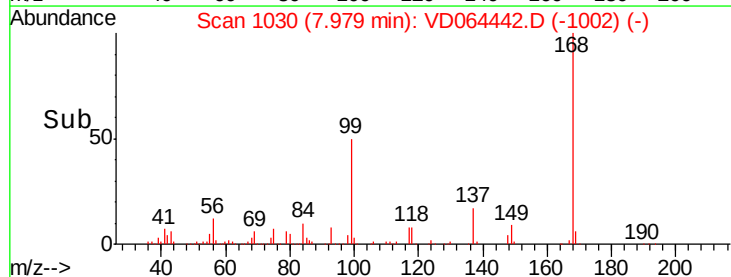
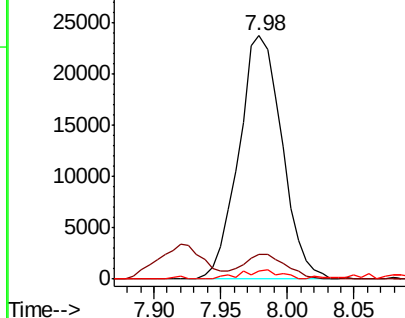


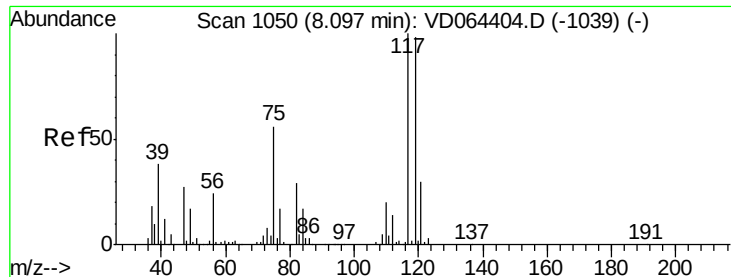
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

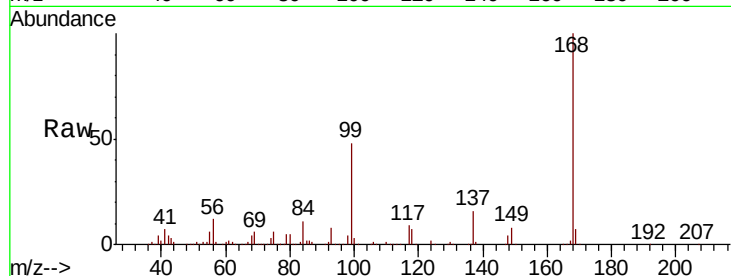




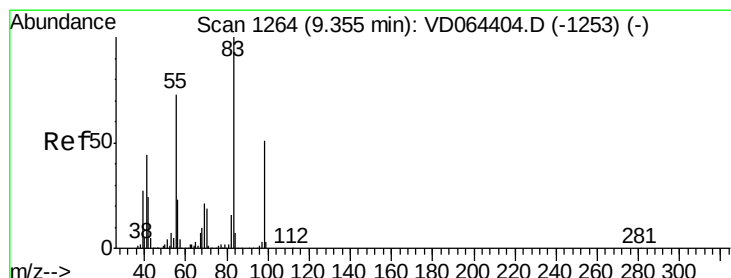
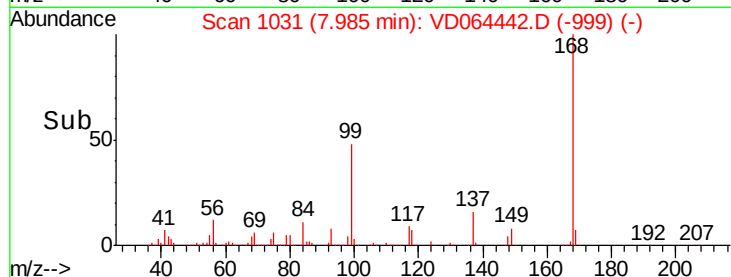
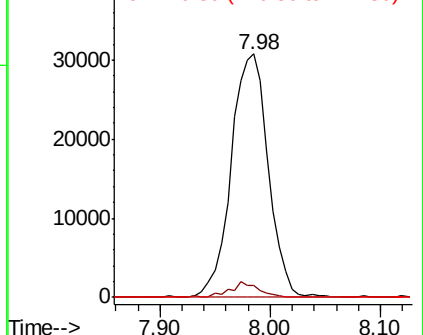
#38
Carbon Tetrachloride
Concen: 6.197 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064442.D
Acq: 05 Dec 2019 18:00

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 72306
Ion Ratio Lower Upper
117 100
119 4.8 78.8 118.2#
121 0.0 24.2 36.2#

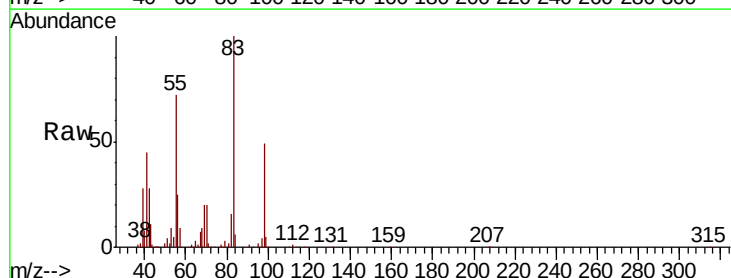


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

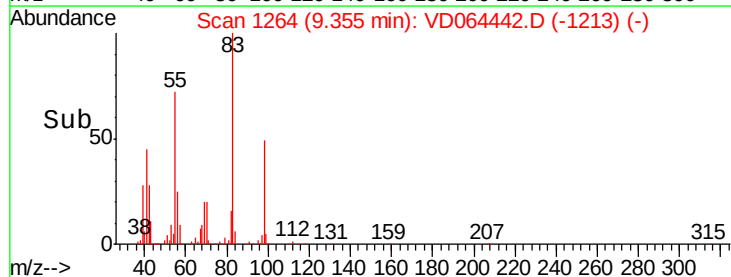
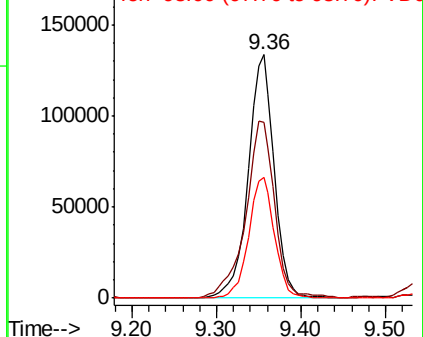


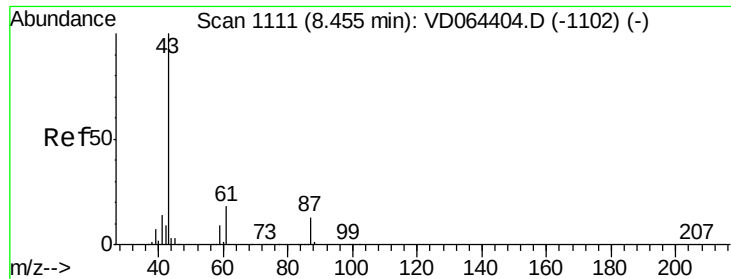
#39
Methylcyclohexane
Concen: 20.950 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064442.D
Acq: 05 Dec 2019 18:00

Tgt Ion: 83 Resp: 287319
Ion Ratio Lower Upper
83 100
55 72.2 58.6 87.8
98 49.4 40.9 61.3



Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC





#43

Isopropyl Acetate

Concen: 1.837 ug/l

RT: 8.44 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VD064442.D

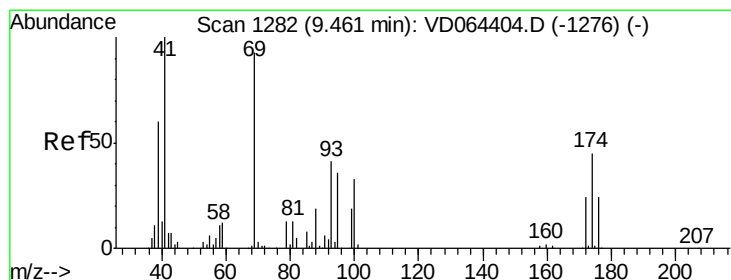
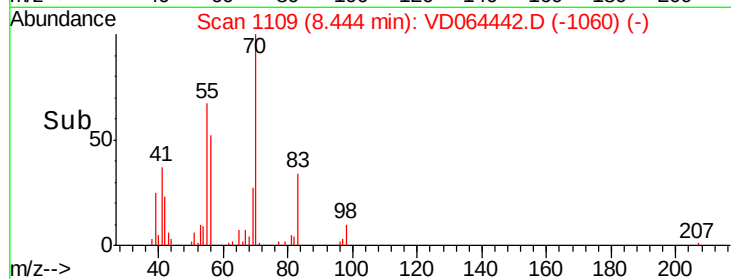
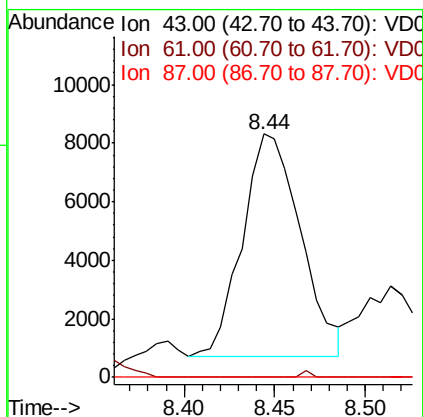
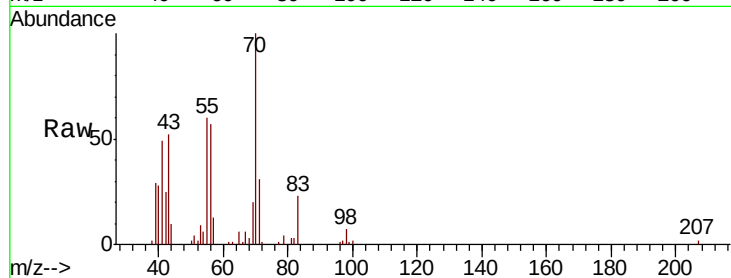
Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_D

ClientSampled :

Tot Ion:	43	Resp:	16944
Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.0	36.0#
87	0.0	10.6	15.8#



#48

Methyl methacrylate

Concen: 1.862 ug/l

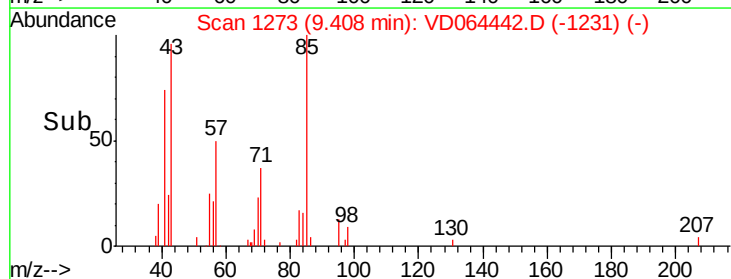
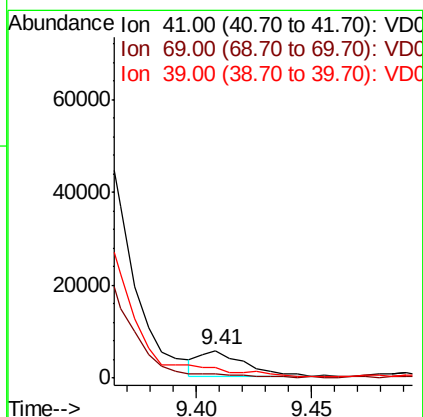
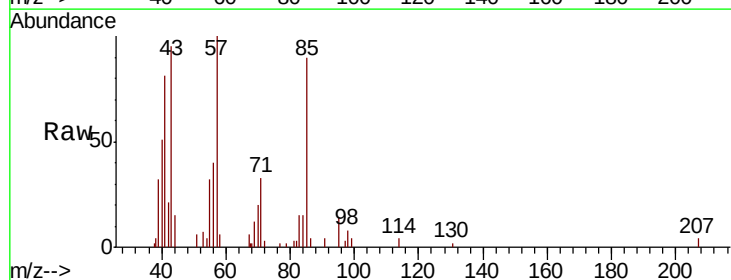
RT: 9.41 min Scan# 1273

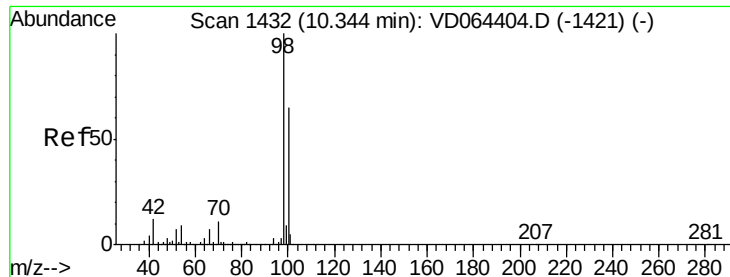
Delta R.T. -0.05 min

Lab File: VD064442.D

Acq: 05 Dec 2019 18:00

Tgt Ion:	41	Resp:	7860
Ion	Ratio	Lower	Upper
41	100		
69	0.0	72.0	108.0#
39	0.0	55.2	82.8#

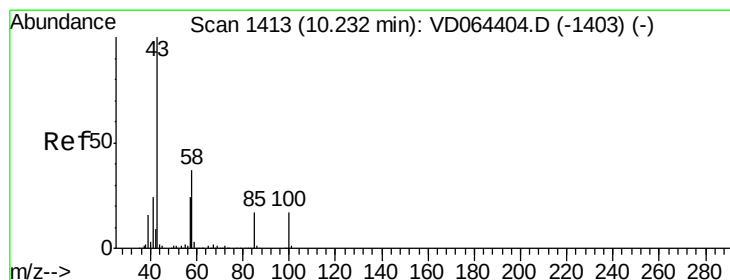
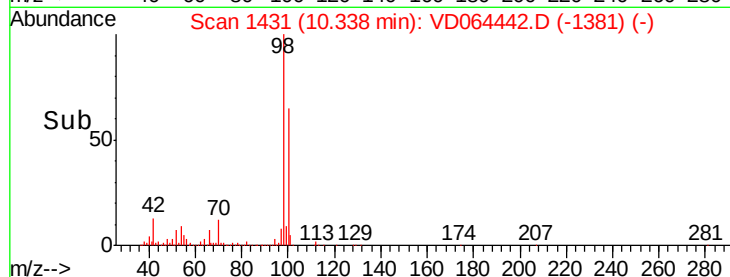
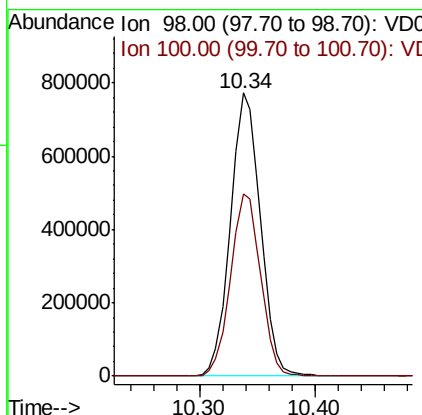
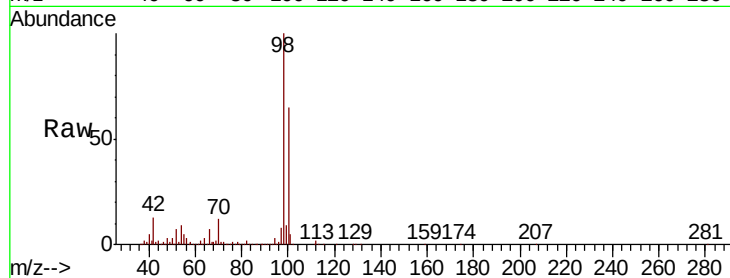




#50
Toluene-d8
Concen: 50.062 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064442.D
Acq: 05 Dec 2019 18:00

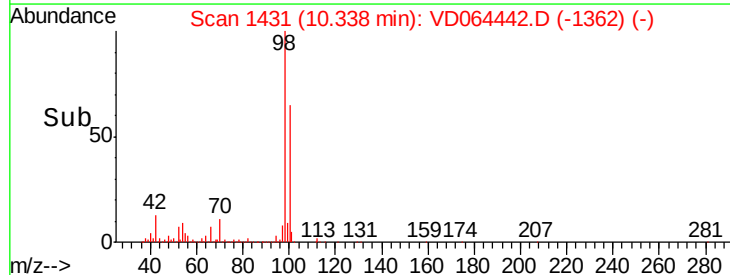
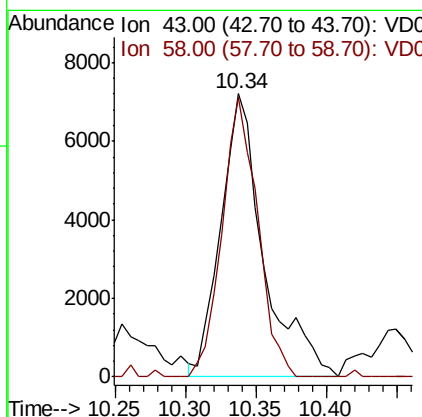
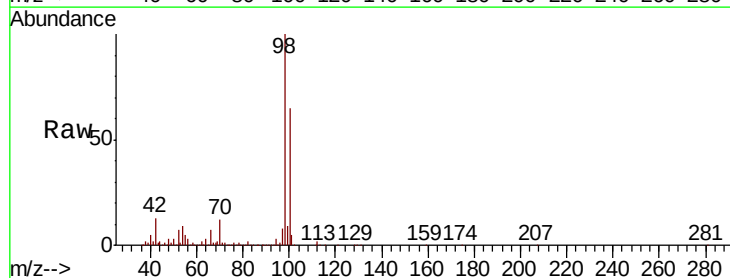
Instrument :
MSVOA_D
ClientSampleId :

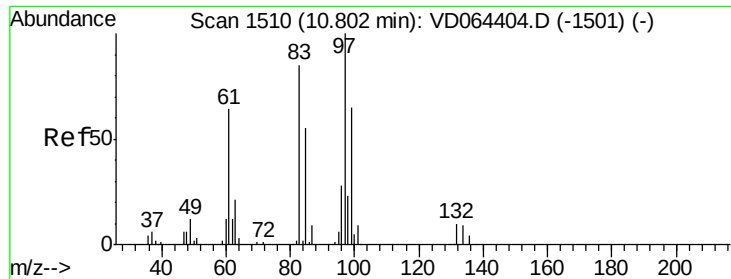
Tot Ion: 98 Resp: 1388774
Ion Ratio Lower Upper
98 100
100 64.8 52.6 79.0



#51
4-Methyl-2-Pentanone
Concen: 3.332 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.11 min
Lab File: VD064442.D
Acq: 05 Dec 2019 18:00

Tgt Ion: 43 Resp: 15206
Ion Ratio Lower Upper
43 100
58 81.9 30.6 46.0#

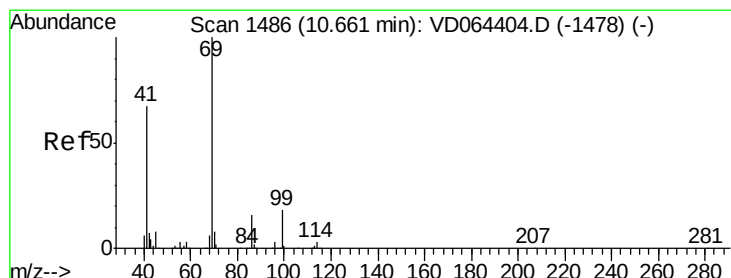
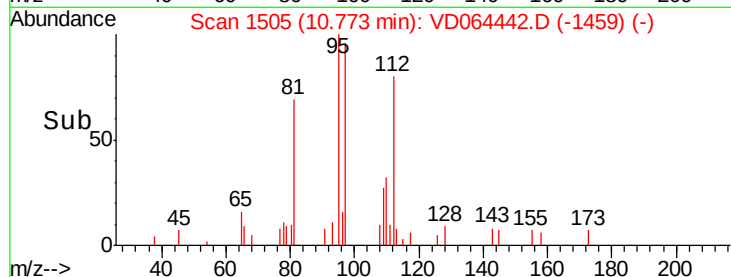
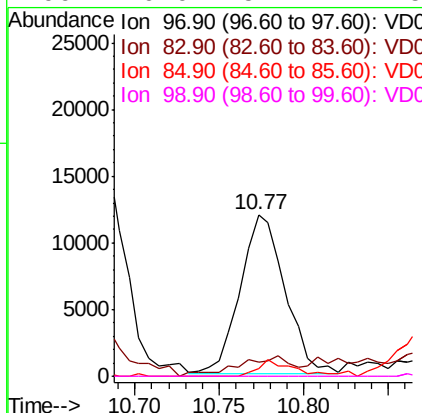
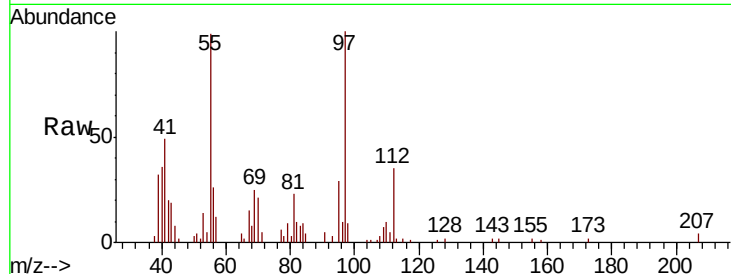




#55
 1,1,2-Trichloroethane
 Concen: 3.891 ug/l
 RT: 10.77 min Scan# 1505
 Delta R.T. -0.03 min
 Lab File: VD064442.D
 Acq: 05 Dec 2019 18:00

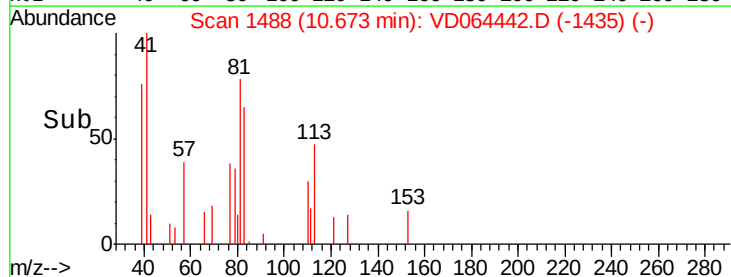
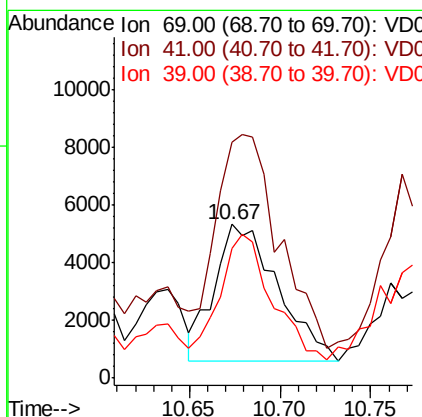
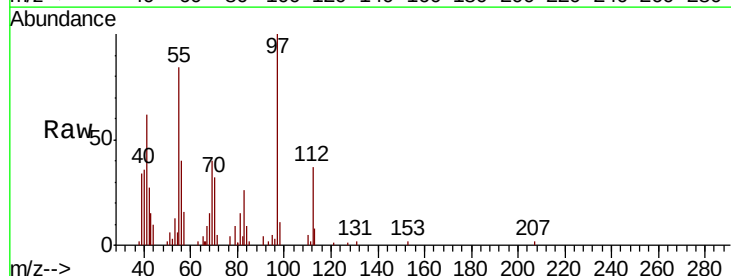
Instrument :
 MSVOA_D
 ClientSampleID :

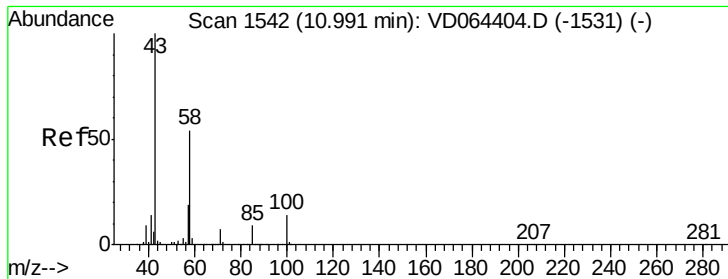
Tot Ion: 97 Resp: 22084
 Ion Ratio Lower Upper
 97 100
 83 5.9 67.8 101.8#
 85 4.6 43.7 65.5#
 99 0.0 51.7 77.5#



#56
 Ethyl methacrylate
 Concen: 1.606 ug/l
 RT: 10.67 min Scan# 1488
 Delta R.T. 0.01 min
 Lab File: VD064442.D
 Acq: 05 Dec 2019 18:00

Tgt Ion: 69 Resp: 11623
 Ion Ratio Lower Upper
 69 100
 41 142.9 55.0 82.4#
 39 74.3 33.0 49.6#





#59

2-Hexanone

Concen: 6.747 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.04 min

Lab File: VD064442.D

Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_D

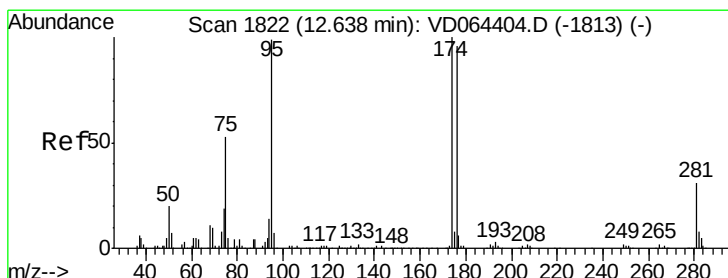
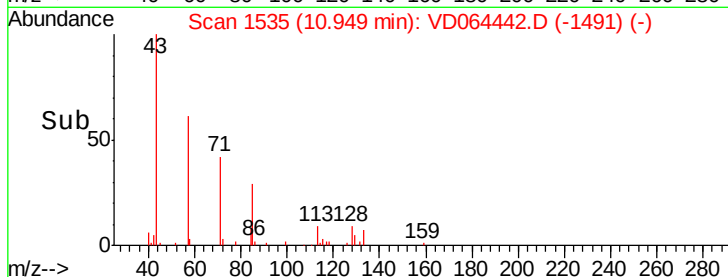
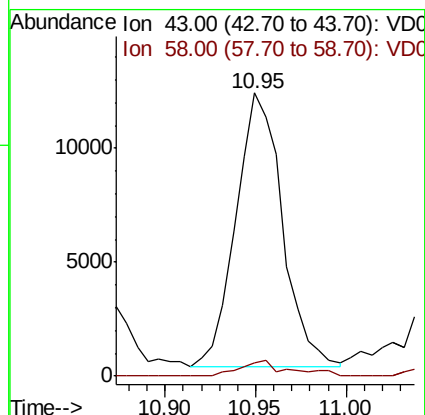
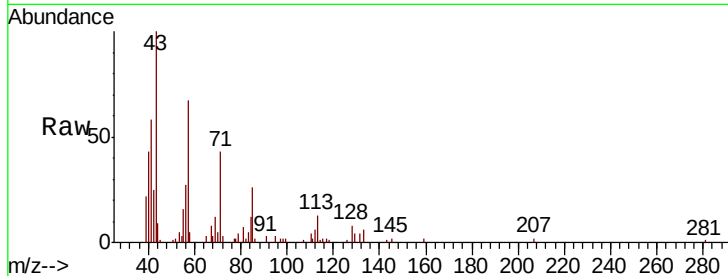
ClientSampleId :

Tot Ion: 43 Resp: 21368

Ion Ratio Lower Upper

43 100

58 5.9 26.3 78.8#



#62

4-Bromofluorobenzene

Concen: 50.811 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064442.D

Acq: 05 Dec 2019 18:00

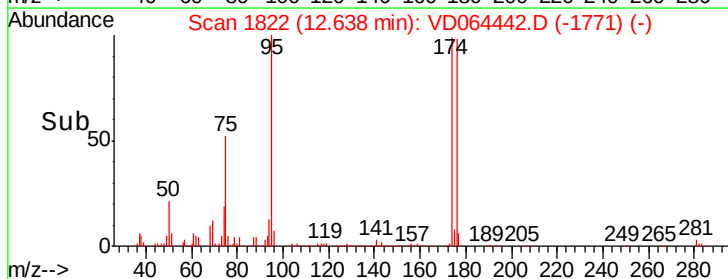
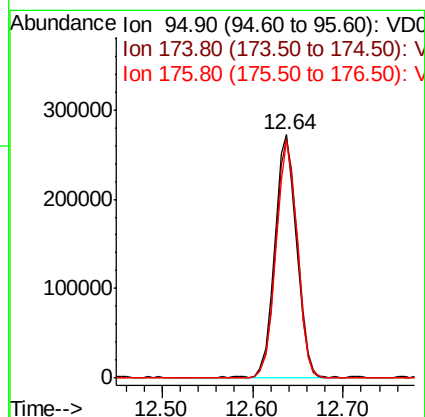
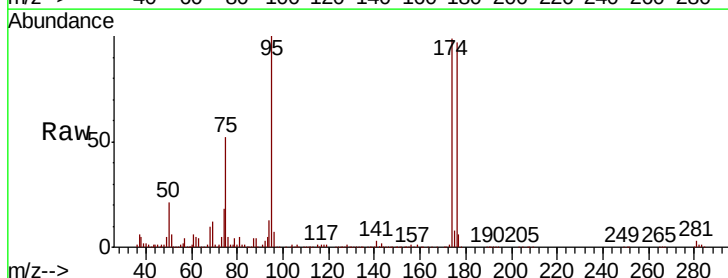
Tgt Ion: 95 Resp: 452999

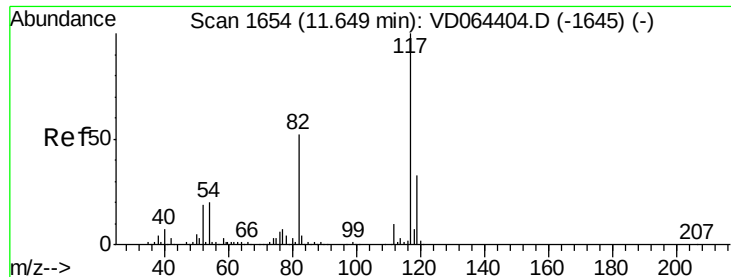
Ion Ratio Lower Upper

95 100

174 99.5 0.0 197.2

176 94.8 0.0 189.6

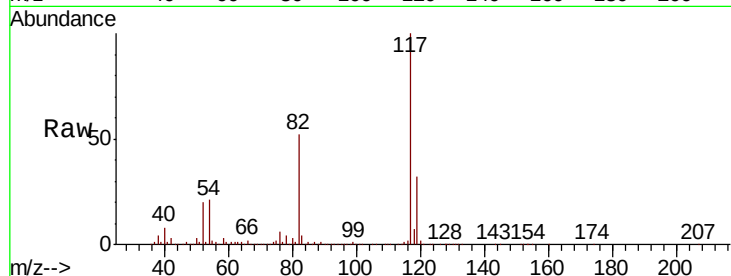




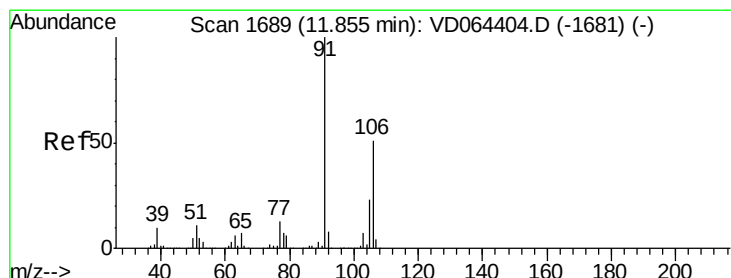
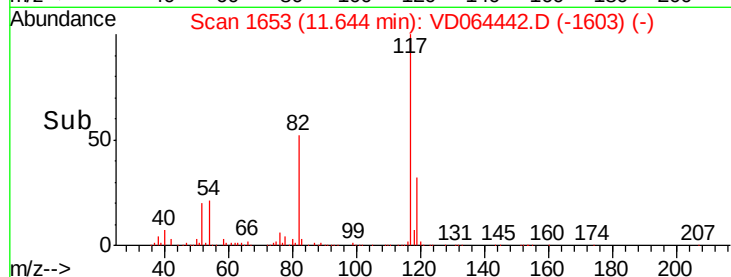
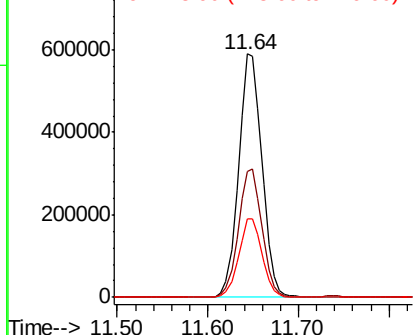
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD064442.D
Acq: 05 Dec 2019 18:00

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 1056332
Ion Ratio Lower Upper
117 100
82 51.6 41.4 62.2
119 32.3 26.2 39.2

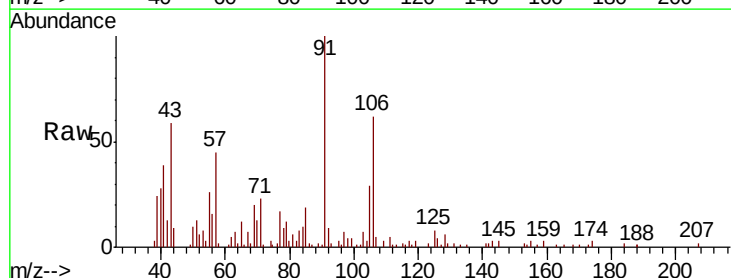


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

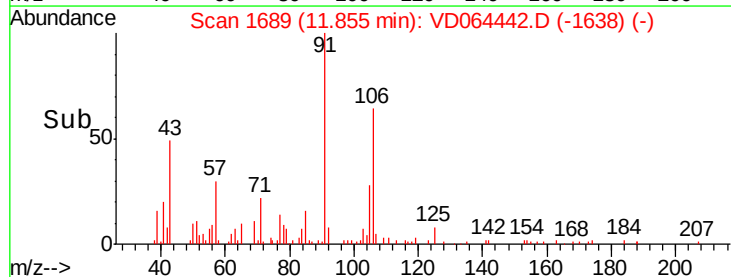
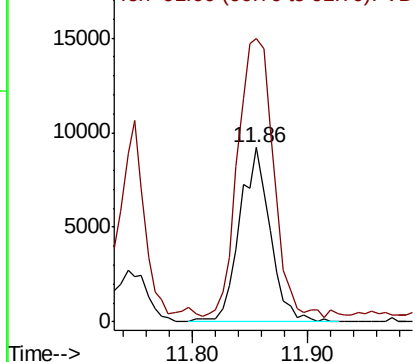


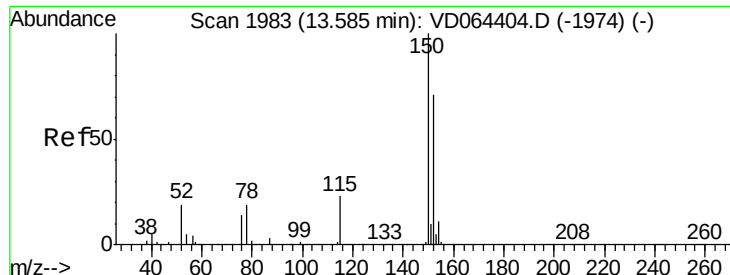
#68
m/p-Xylenes
Concen: 1.128 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064442.D
Acq: 05 Dec 2019 18:00

Tgt Ion:106 Resp: 16856
Ion Ratio Lower Upper
106 100
91 188.0 157.4 236.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): 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: VD064442.D

Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_D

ClientSampleId :

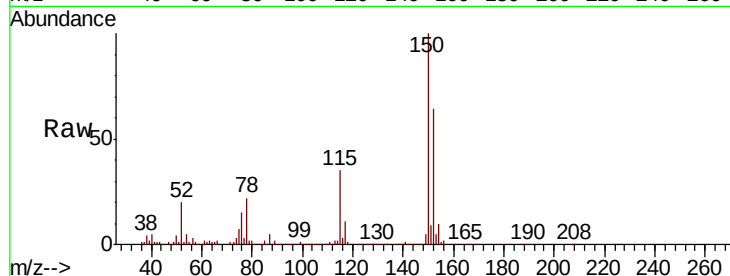
Tot Ion:152 Resp: 518553

Ion Ratio Lower Upper

152 100

115 55.8 26.7 80.1

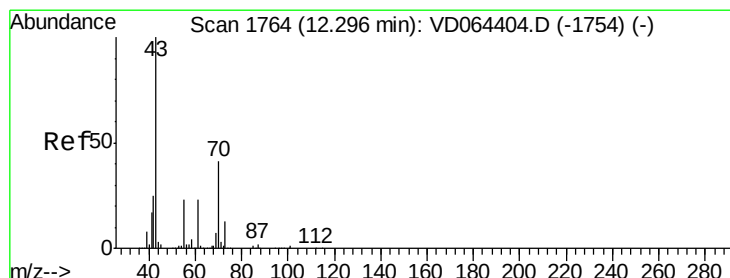
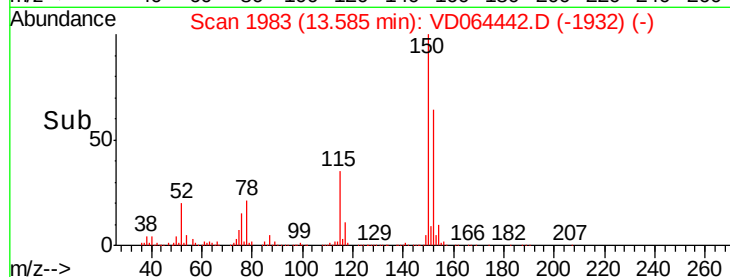
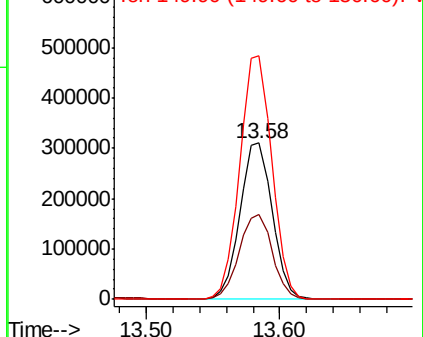
150 155.5 0.0 347.2



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



#74

N-ethyl acetate

Concen: 1.065 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.03 min

Lab File: VD064442.D

Acq: 05 Dec 2019 18:00

Tgt Ion: 43 Resp: 9012

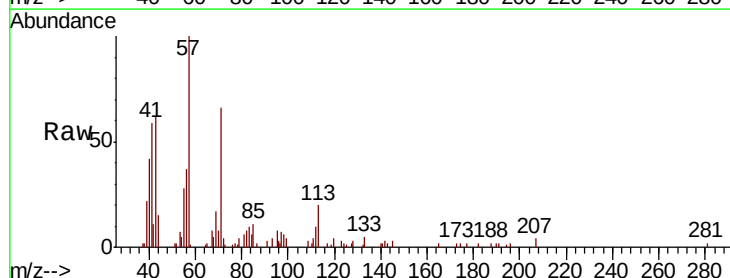
Ion Ratio Lower Upper

43 100

70 10.7 33.4 50.2#

55 50.7 18.9 28.3#

61 0.0 18.5 27.7#

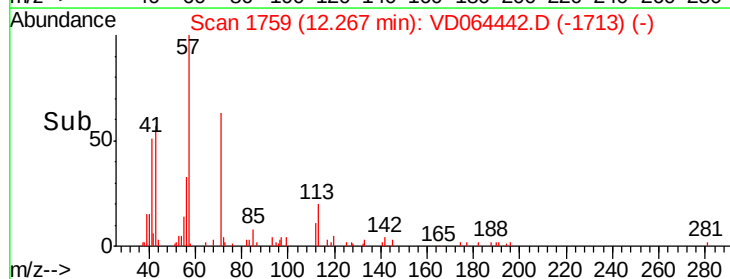
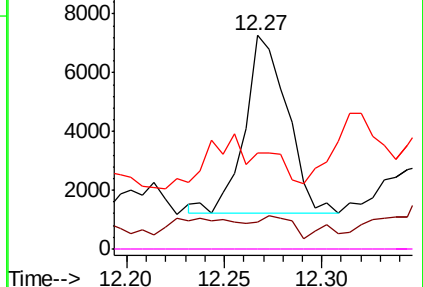


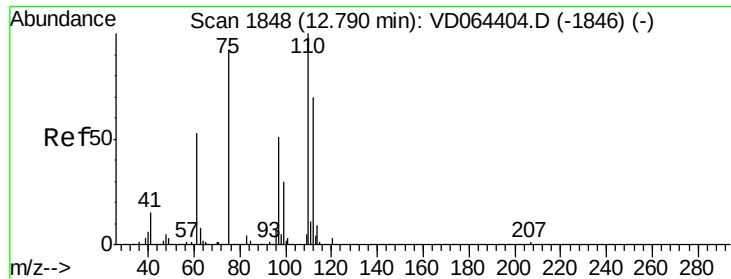
Abundance Ion 43.00 (42.70 to 43.70): VDC

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: 56.511 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064442.D

Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_D

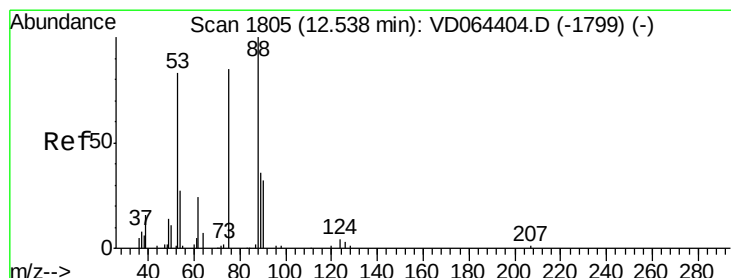
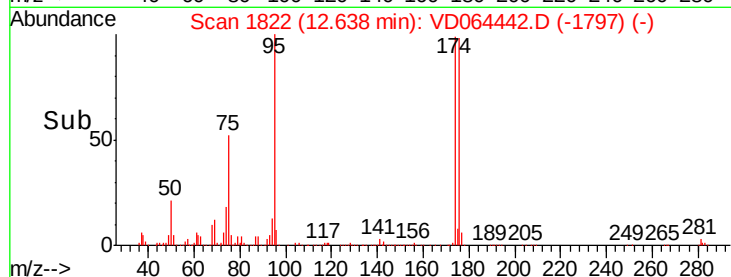
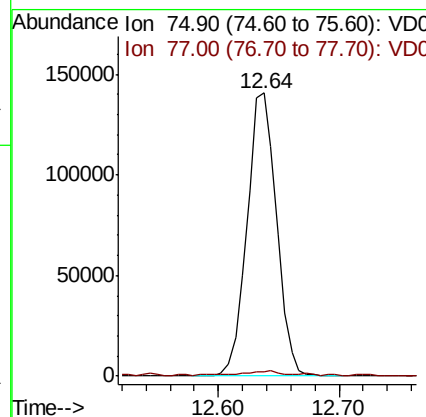
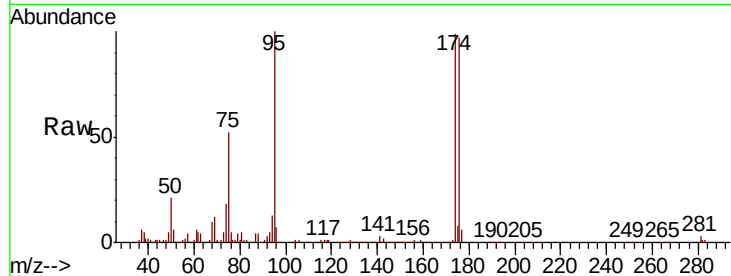
ClientSampleId :

Tot Ion: 75 Resp: 240985

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 123.223 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064442.D

Acq: 05 Dec 2019 18:00

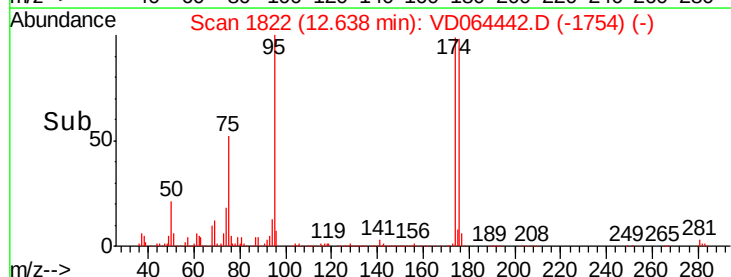
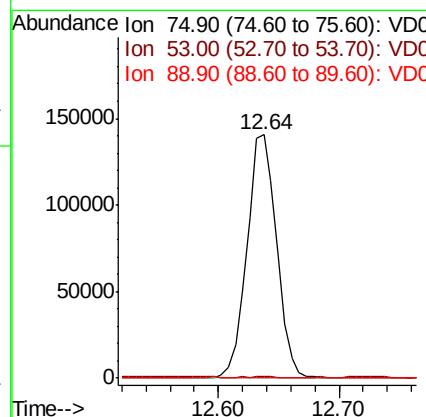
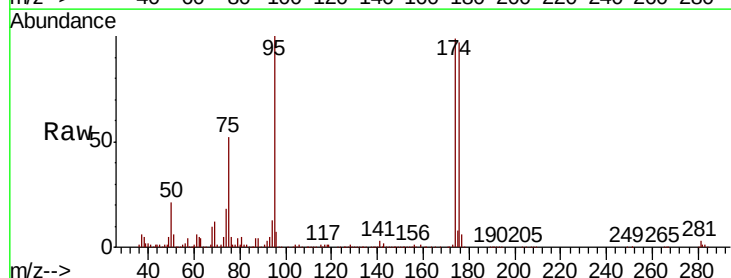
Tgt Ion: 75 Resp: 240985

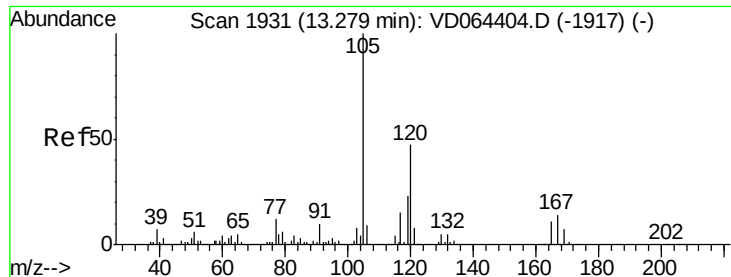
Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.1 38.5 57.7#





#84

1,2,4-Trimethylbenzene

Concen: 1.554 ua/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD064442.D

Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_D

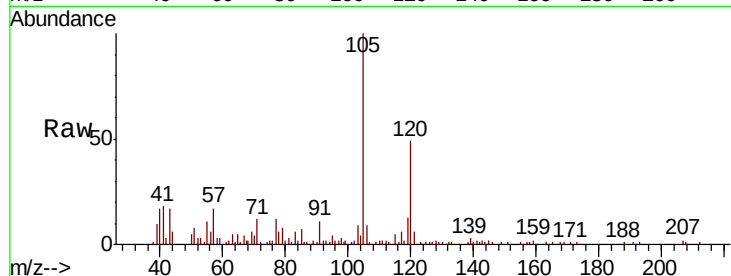
ClientSampled :

Tot Ion:105 Resp: 47635

Ion Ratio Lower Upper

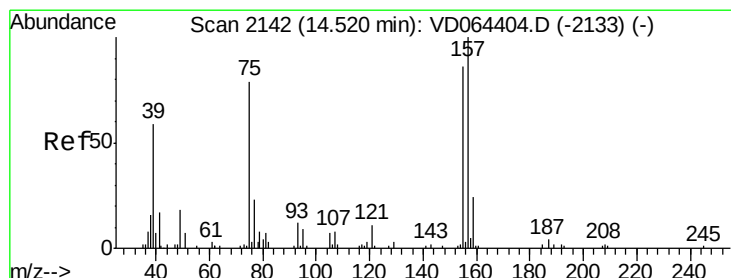
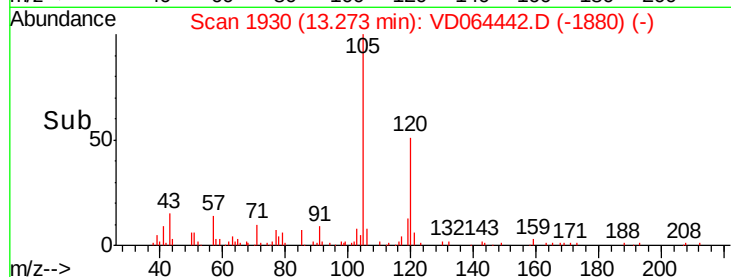
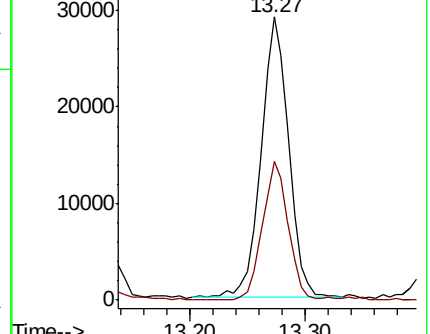
105 100

120 47.1 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.55 min Scan# 2147

Delta R.T. 0.03 min

Lab File: VD064442.D

Acq: 05 Dec 2019 18:00

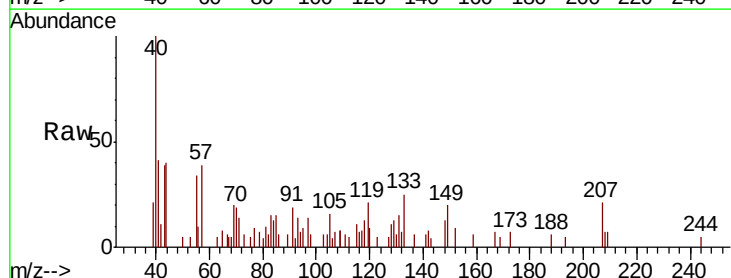
Tgt Ion: 75 Resp: 128

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): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

