

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111119\
 Data File : VD064184.D
 Acq On : 11 Nov 2019 18:12
 Operator : VA/SY
 Sample : K5758-01RE
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 12 02:49:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	193967	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	341417	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	359384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	200690	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	139462	87.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	174.84%	
35) Dibromofluoromethane	7.92	113	72491	36.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.98%	
50) Toluene-d8	10.34	98	413672	55.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.90%	
62) 4-Bromofluorobenzene	12.64	95	180630	70.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	141.10%	

Target Compounds

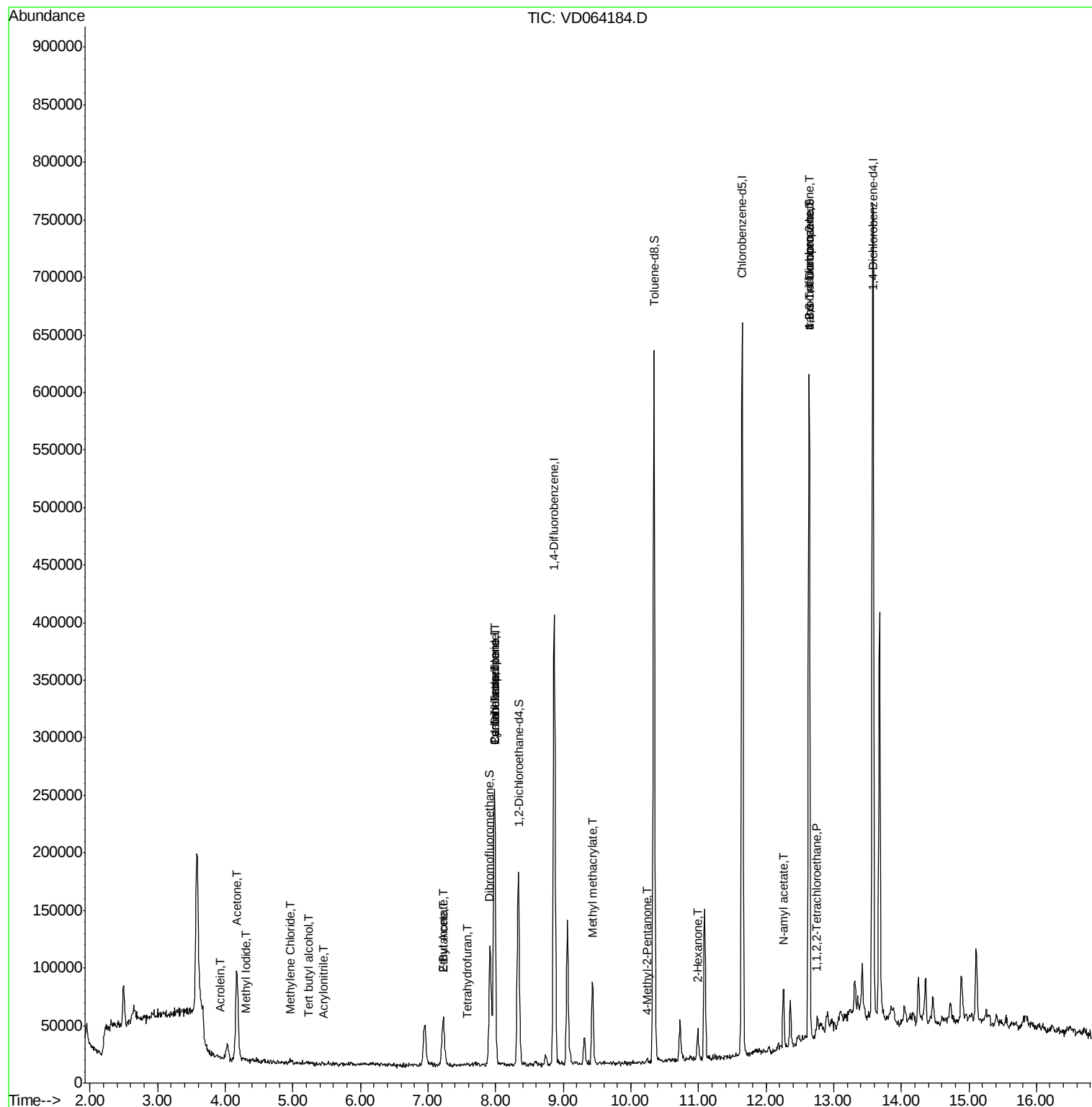
						Qvalue
10) Methyl Iodide	4.30	142	334	2.195	ug/l #	85
11) Tert butyl alcohol	5.23	59	392	3.518	ug/l #	1
13) Acrolein	3.93	56	354	3.756	ug/l #	1
15) Acrylonitrile	5.46	53	636	1.814	ug/l #	35
16) Acetone	4.17	43	139730	369.735	ug/l	90
20) Methylene Chloride	4.97	84	2363	1.238	ug/l #	79
25) 2-Butanone	7.23	43	32744	67.064	ug/l	97
29) Tetrahydrofuran	7.57	42	1045	3.562	ug/l #	36
31) Cyclohexane	7.98	56	5303	1.694	ug/l #	41
36) 1,1-Dichloropropene	7.98	75	12835	4.073	ug/l #	53
37) Ethyl Acetate	7.23	43	32744	24.650	ug/l #	72
38) Carbon Tetrachloride	7.98	117	17608	5.222	ug/l #	14
48) Methyl methacrylate	9.43	41	18485	13.812	ug/l #	47
51) 4-Methyl-2-Pentanone	10.23	43	3136	2.389	ug/l	92
59) 2-Hexanone	10.99	43	18146	19.433	ug/l	98
74) N-amyl acetate	12.26	43	35046	10.075	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.76	83	6504	2.930	ug/l #	35
76) 1,2,3-Trichloropropane	12.64	75	94323	58.350	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	94323	115.906	ug/l #	11

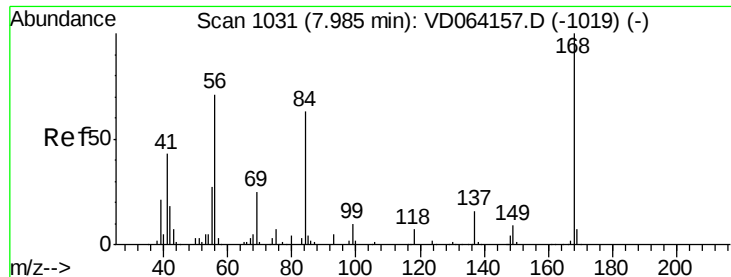
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 12 02:43:24 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064184.D

Acq: 11 Nov 2019 18:12

Instrument :

MSVOA_D

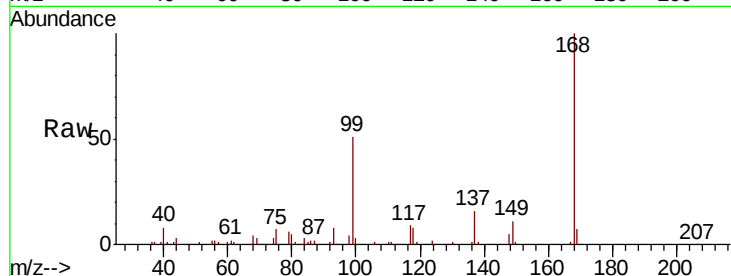
ClientSampleId :

Tot Ion:168 Resp: 193967

Ion Ratio Lower Upper

168 100

99 50.8 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

80000

60000

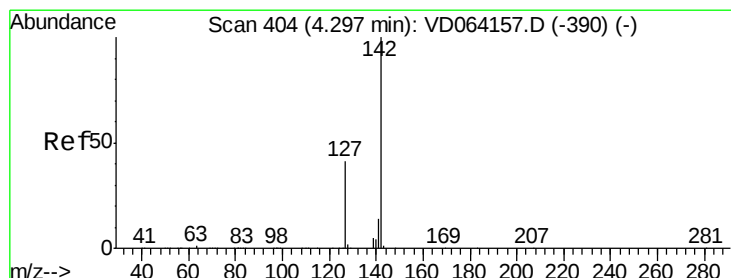
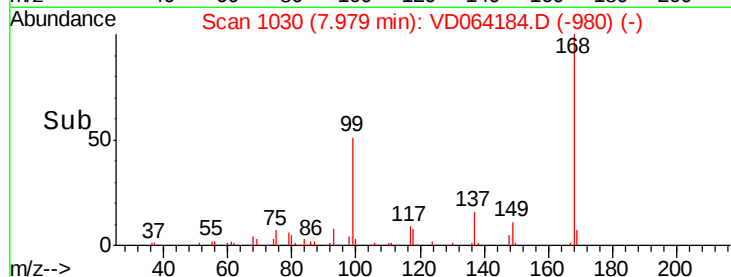
40000

20000

0

7.90 8.00 8.10

Time-->



#10

Methyl Iodide

Concen: 2.195 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD064184.D

Acq: 11 Nov 2019 18:12

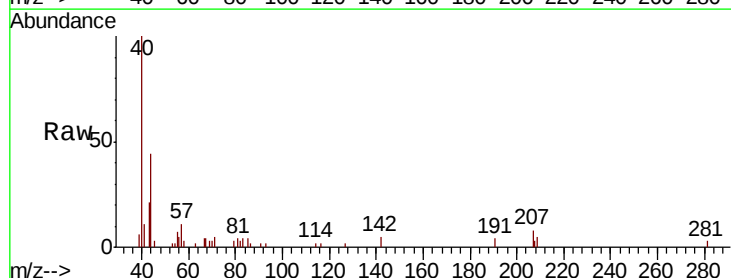
Tgt Ion:142 Resp: 334

Ion Ratio Lower Upper

142 100

127 37.1 34.4 51.6

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.30

500

400

300

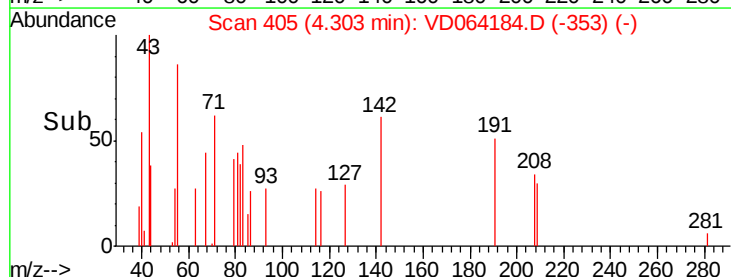
200

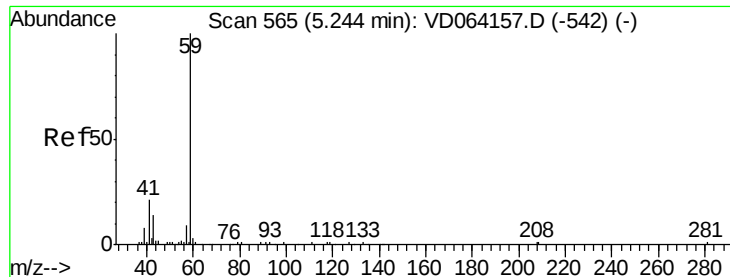
100

0

4.28 4.30 4.32

Time-->



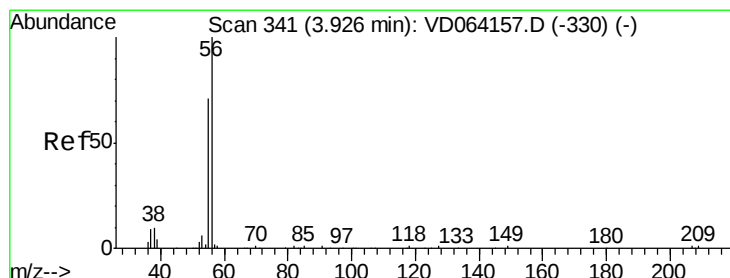
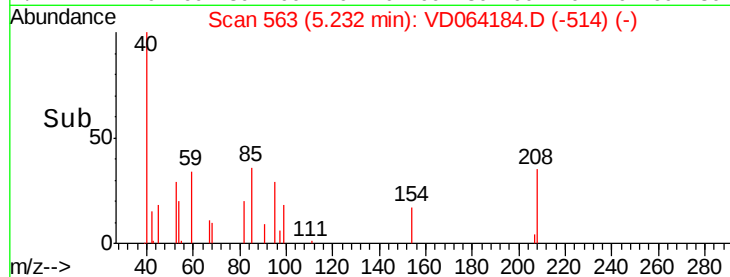
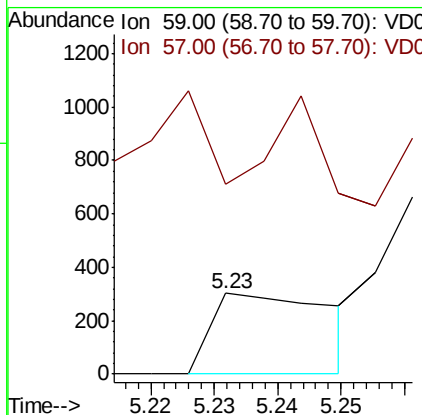
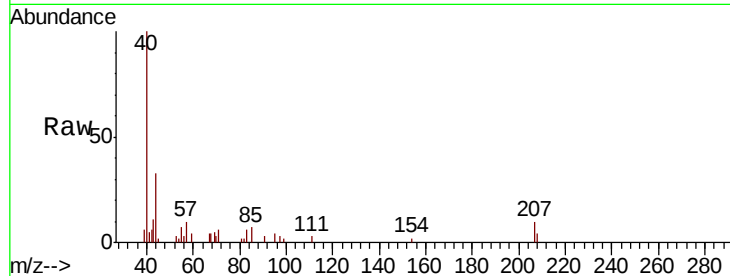


#11

Tert butyl alcohol
 Concen: 3.518 ug/l
 RT: 5.23 min Scan# 563
 Delta R.T. -0.01 min
 Lab File: VD064184.D
 Acq: 11 Nov 2019 18:12

Instrument :
 MSVOA_D
 ClientSampleId :

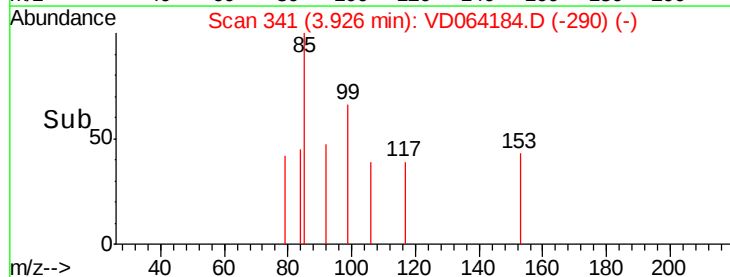
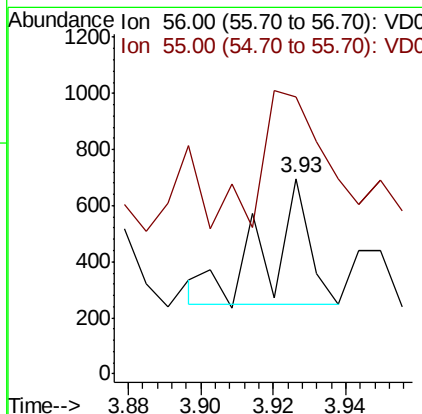
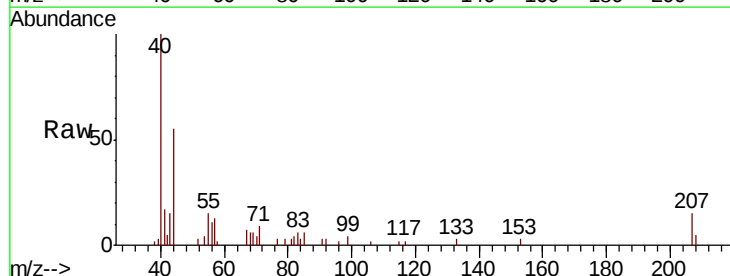
Tot Ion: 59 Resp: 392
 Ion Ratio Lower Upper
 59 100
 57 100.8 9.4 14.2#

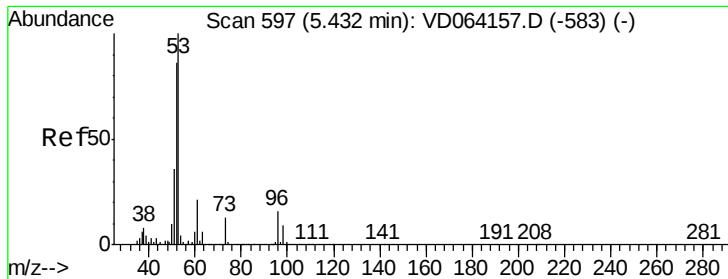


#13

Acrolein
 Concen: 3.756 ug/l
 RT: 3.93 min Scan# 341
 Delta R.T. -0.00 min
 Lab File: VD064184.D
 Acq: 11 Nov 2019 18:12

Tgt Ion: 56 Resp: 354
 Ion Ratio Lower Upper
 56 100
 55 174.3 56.1 84.1#





#15

Acrylonitrile

Concen: 1.814 ug/l

RT: 5.46 min Scan# 601

Delta R.T. 0.02 min

Lab File: VD064184.D

Acq: 11 Nov 2019 18:12

Instrument :

MSVOA_D

ClientSampled :

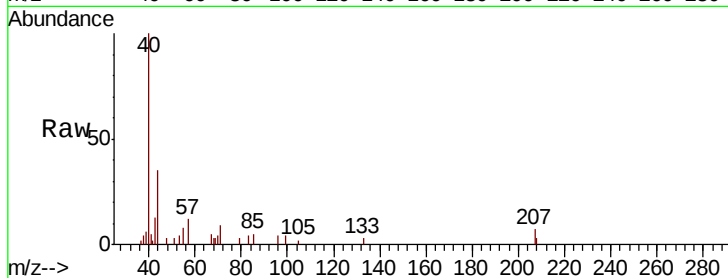
Tot Ion: 53 Resp: 636

Ion Ratio Lower Upper

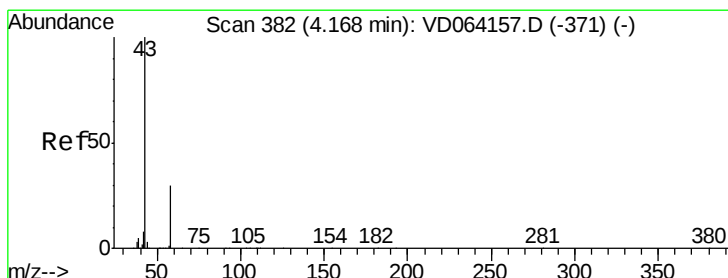
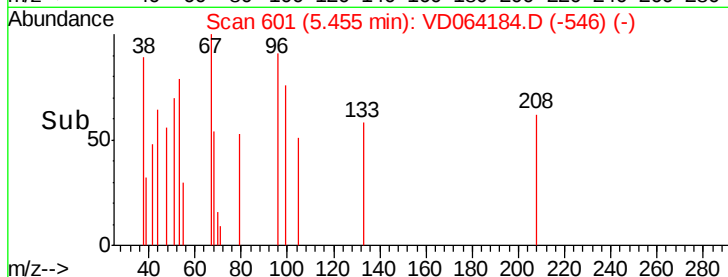
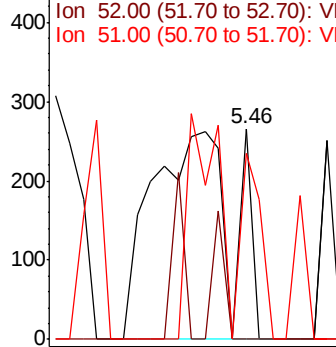
53 100

52 9.0 66.7 100.1#

51 22.8 30.6 46.0#



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



#16

Acetone

Concen: 369.735 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064184.D

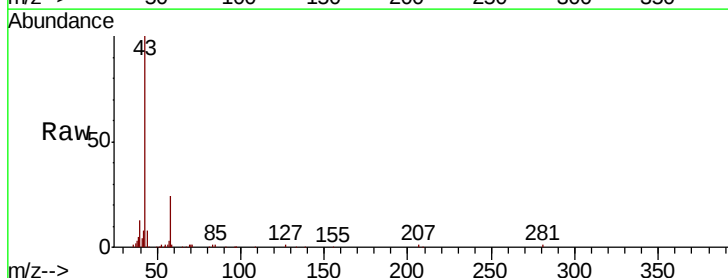
Acq: 11 Nov 2019 18:12

Tgt Ion: 43 Resp: 139730

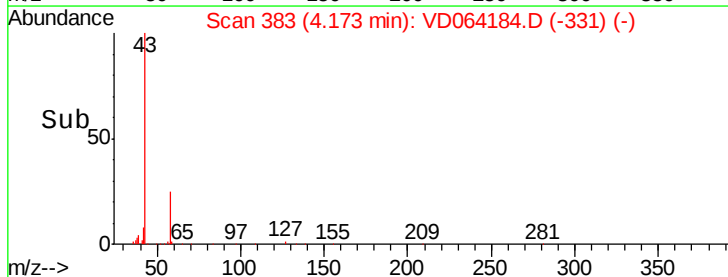
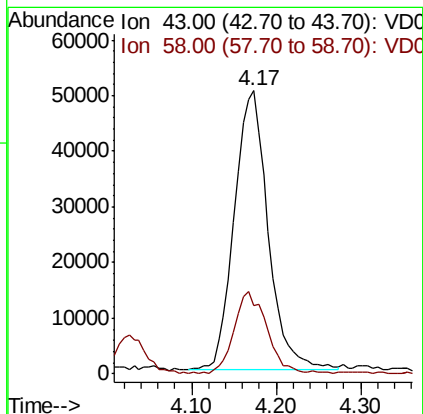
Ion Ratio Lower Upper

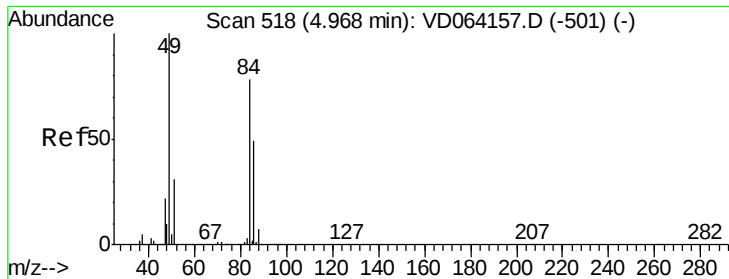
43 100

58 24.5 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

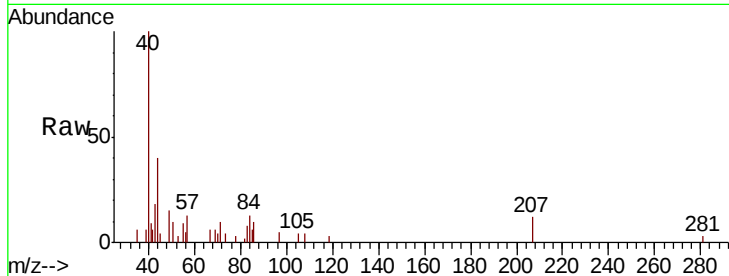




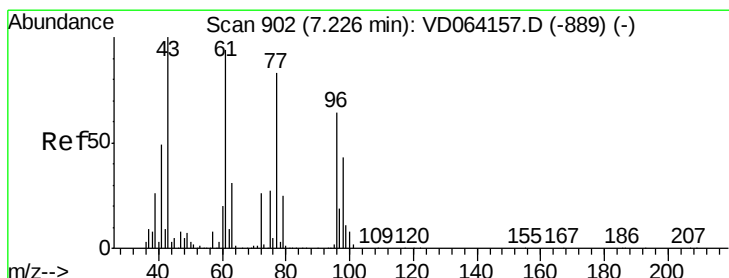
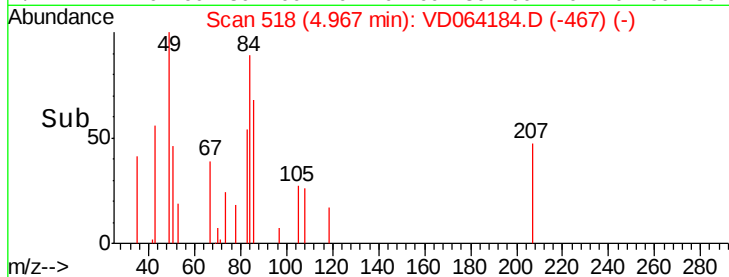
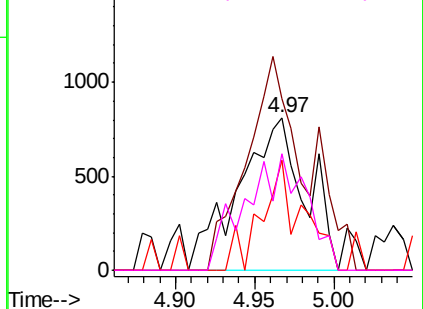
#20
Methvlene Chloride
Concen: 1.238 ug/l
RT: 4.97 min Scan# 518
Delta R.T. -0.00 min
Lab File: VD064184.D
Acq: 11 Nov 2019 18:12

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 2363
Ion Ratio Lower Upper
84 100
49 111.9 102.1 153.1
51 72.4 32.2 48.2#
86 76.0 49.9 74.9#

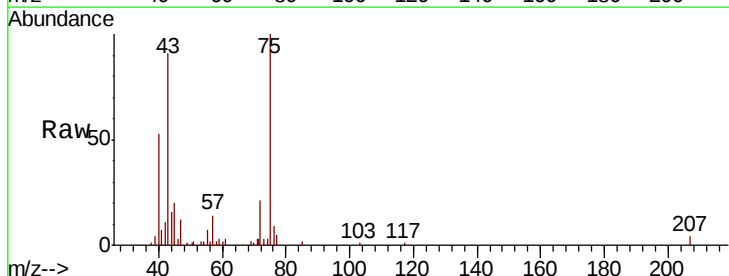


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

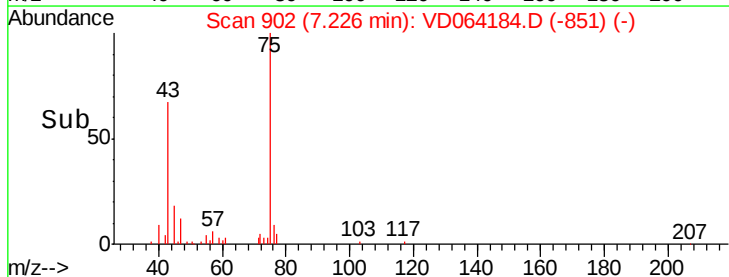
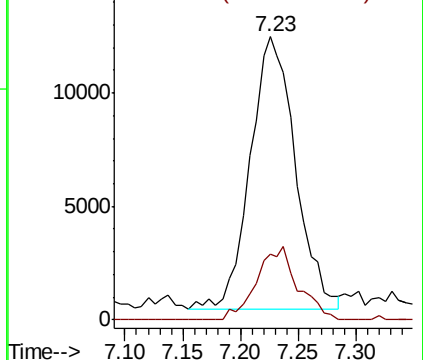


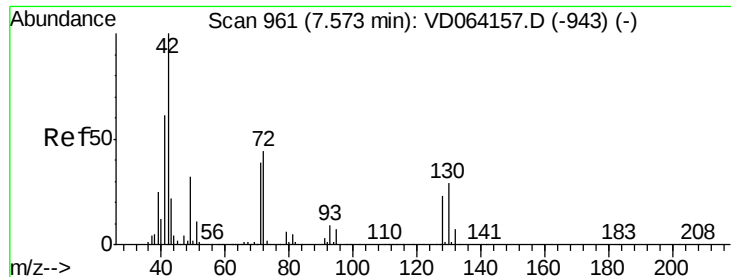
#25
2-Butanone
Concen: 67.064 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.00 min
Lab File: VD064184.D
Acq: 11 Nov 2019 18:12

Tgt Ion: 43 Resp: 32744
Ion Ratio Lower Upper
43 100
72 24.2 20.6 30.8



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC

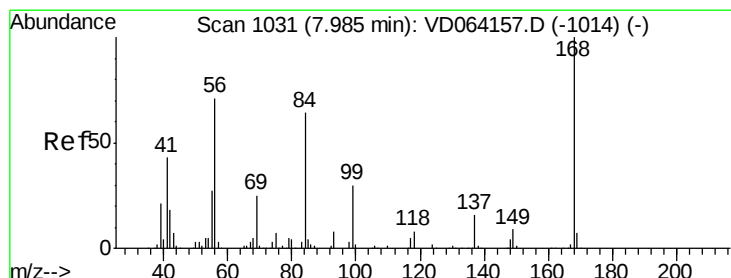
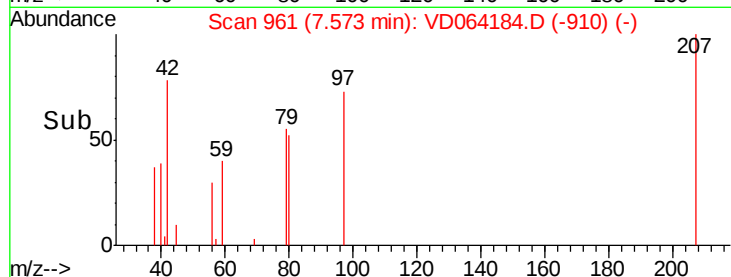
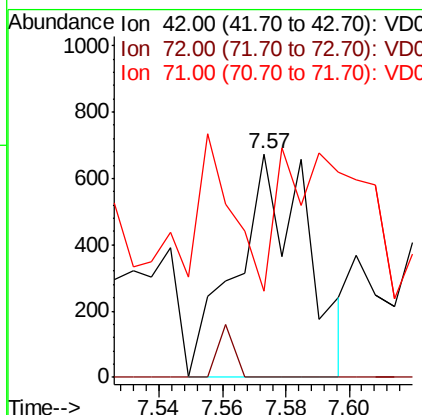
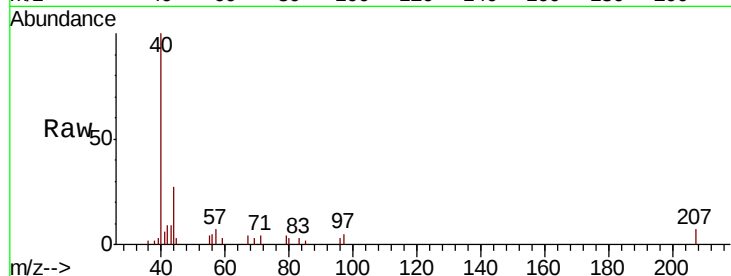




#29
Tetrahydrofuran
Concen: 3.562 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD064184.D
Acq: 11 Nov 2019 18:12

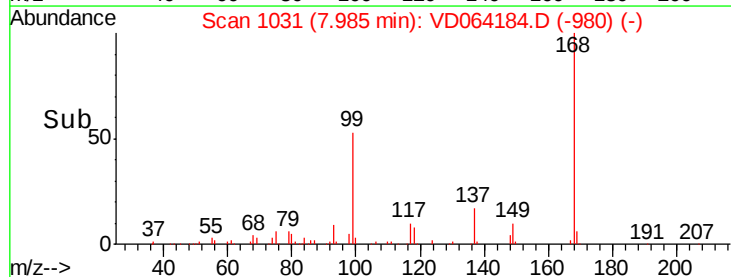
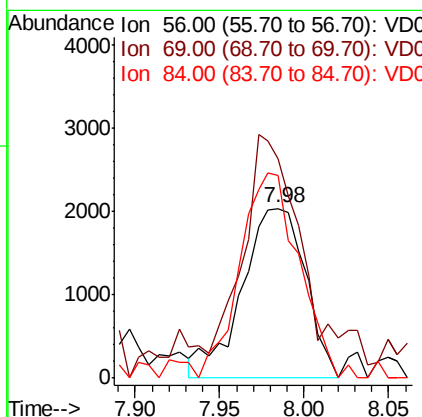
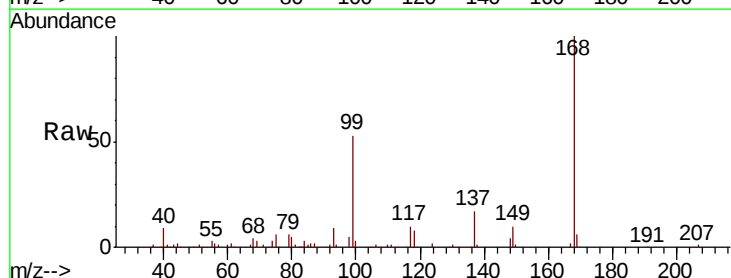
Instrument :
MSVOA_D
ClientSampled :

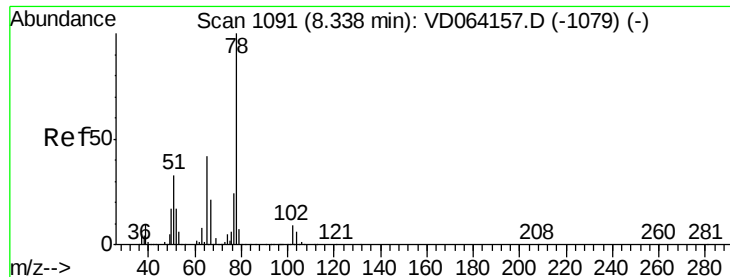
Tot Ion: 42 Resp: 1045
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.2#
71 76.4 31.0 46.4#



#31
Cyclohexane
Concen: 1.694 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064184.D
Acq: 11 Nov 2019 18:12

Tgt Ion: 56 Resp: 5303
Ion Ratio Lower Upper
56 100
69 110.7 28.2 42.4#
84 119.0 71.8 107.6#

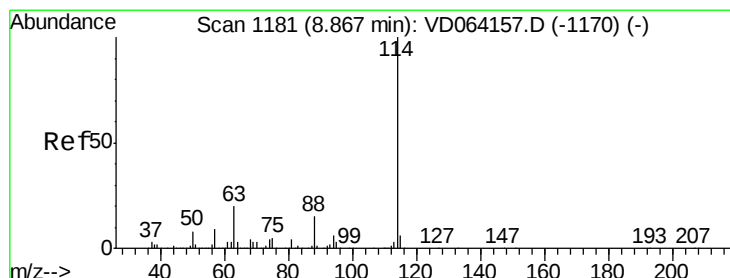
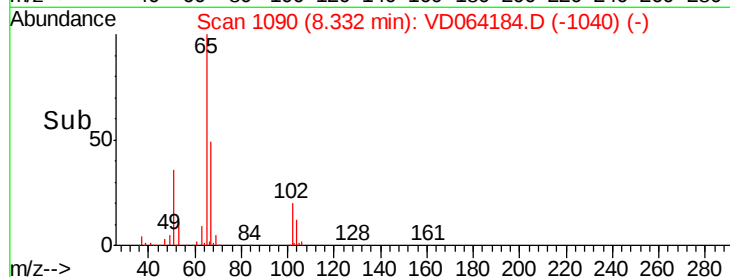
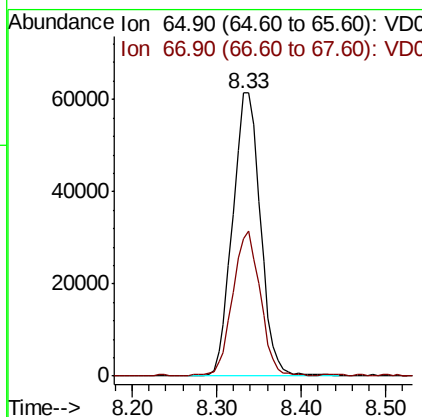
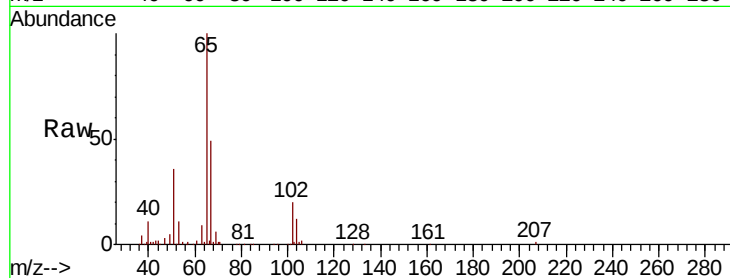




#33
 1,2-Dichloroethane-d4
 Concen: 87.423 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064184.D
 Acq: 11 Nov 2019 18:12

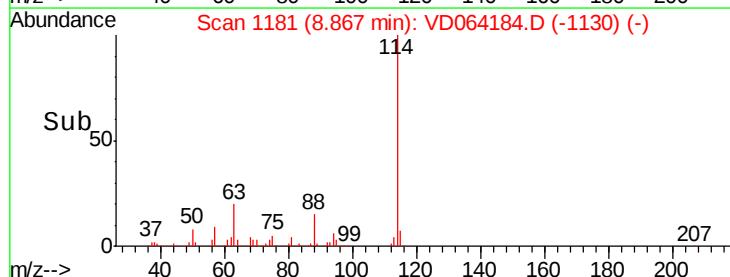
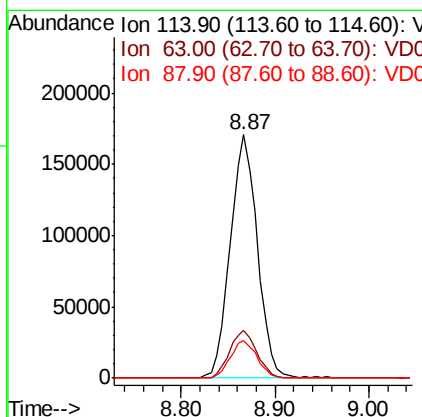
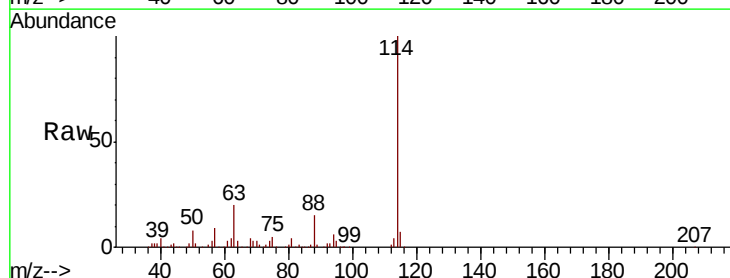
Instrument :
 MSVOA_D
 ClientSampleId :

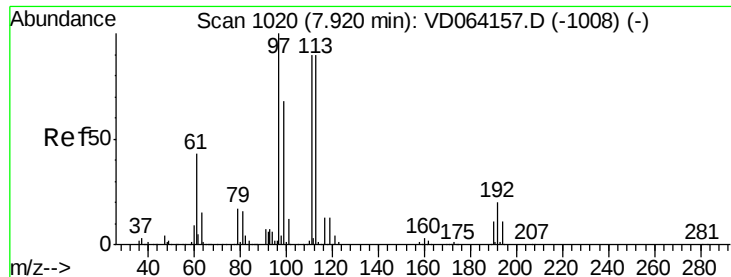
Tot Ion: 65 Resp: 139462
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064184.D
 Acq: 11 Nov 2019 18:12

Tgt Ion: 114 Resp: 341417
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.0
 88 15.3 0.0 30.2

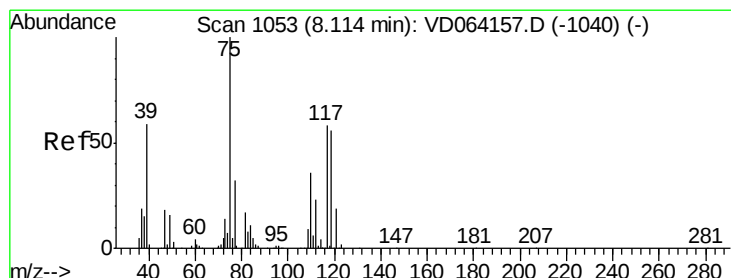
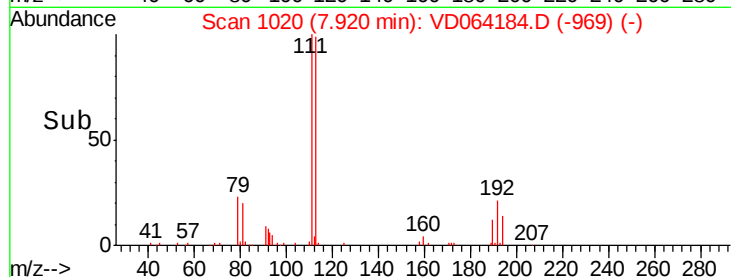
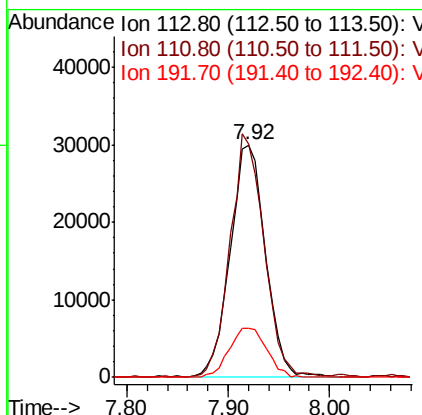
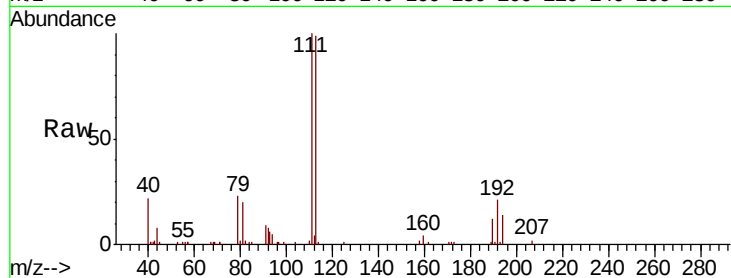




#35
 Dibromofluoromethane
 Concen: 36.989 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064184.D
 Acq: 11 Nov 2019 18:12

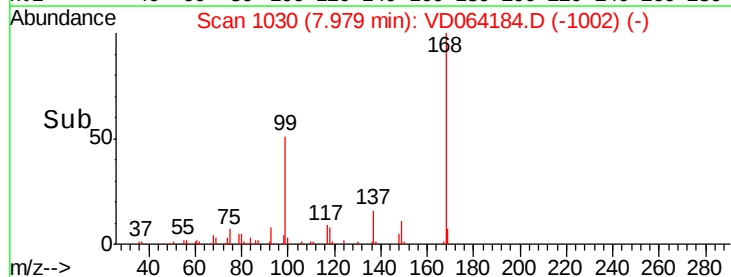
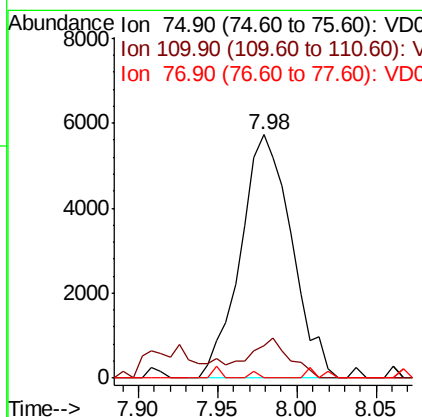
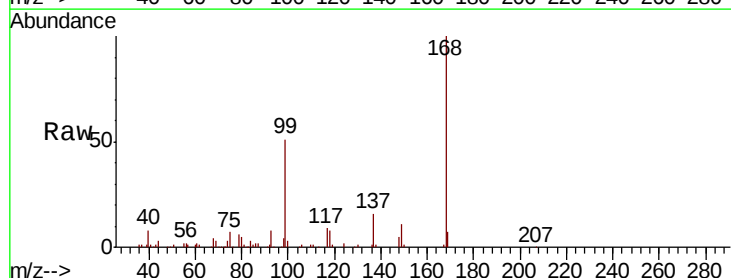
Instrument :
 MSVOA_D
 ClientSampleId :

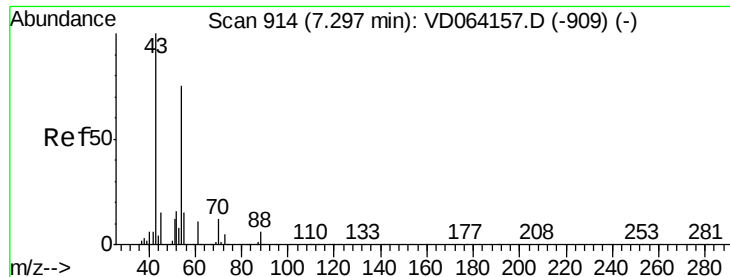
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.5	122.3
192	22.5	18.8	28.2



#36
 1,1-Dichloropropene
 Concen: 4.073 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064184.D
 Acq: 11 Nov 2019 18:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	13.0	18.3	54.9#
77	0.4	25.0	37.6#

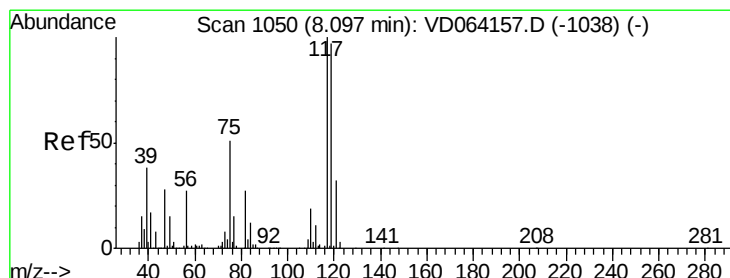
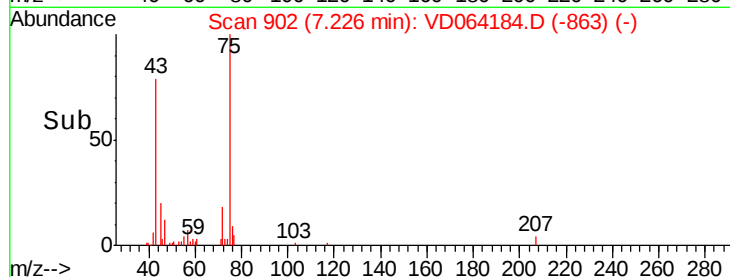
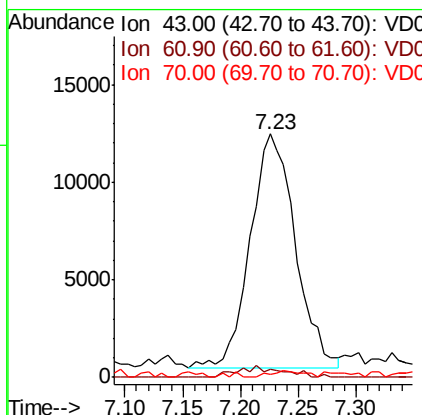
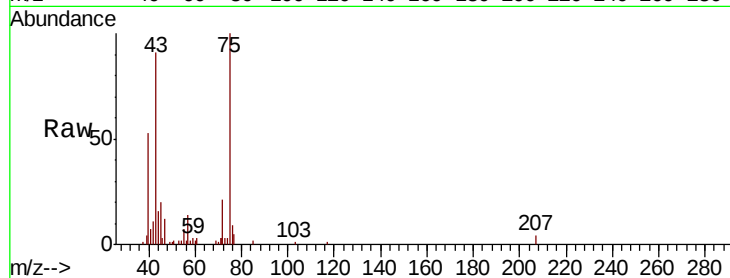




#37
Ethyl Acetate
Concen: 24.650 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.07 min
Lab File: VD064184.D
Acq: 11 Nov 2019 18:12

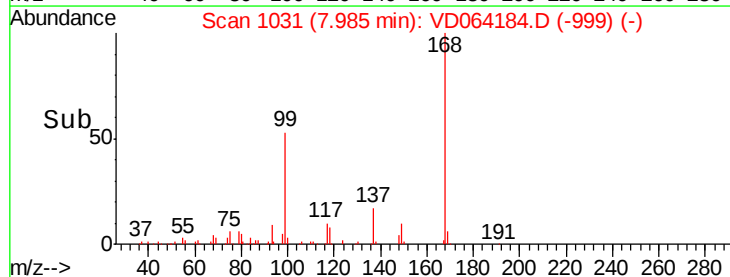
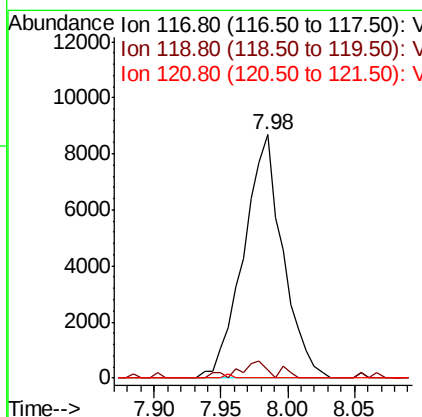
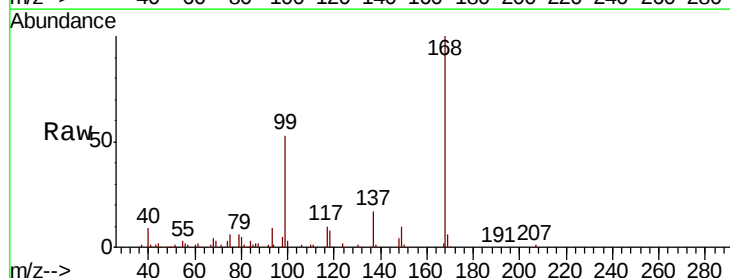
Instrument :
MSVOA_D
ClientSampleId :

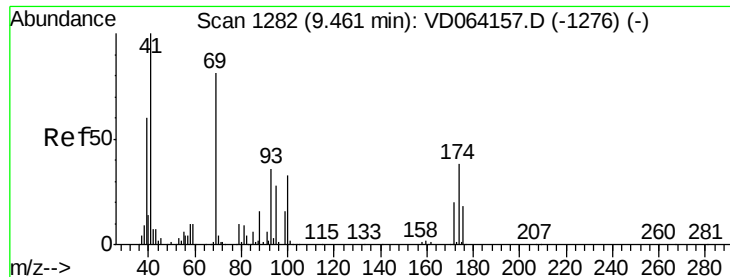
Tot Ion: 43 Resp: 32744
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.2#
70 2.1 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 5.222 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064184.D
Acq: 11 Nov 2019 18:12

Tgt Ion: 117 Resp: 17608
Ion Ratio Lower Upper
117 100
119 3.4 77.2 115.8#
121 0.0 25.5 38.3#

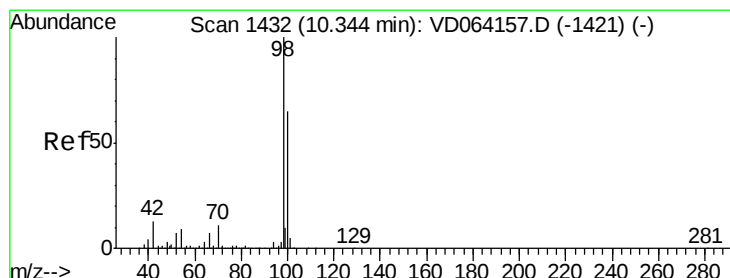
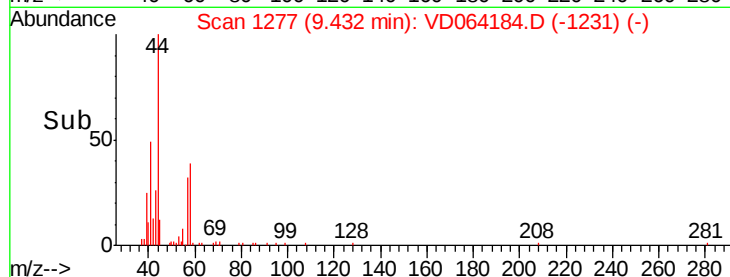
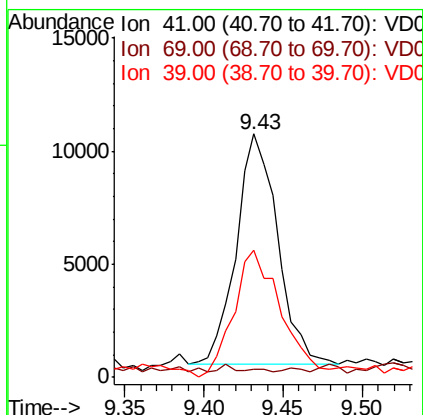
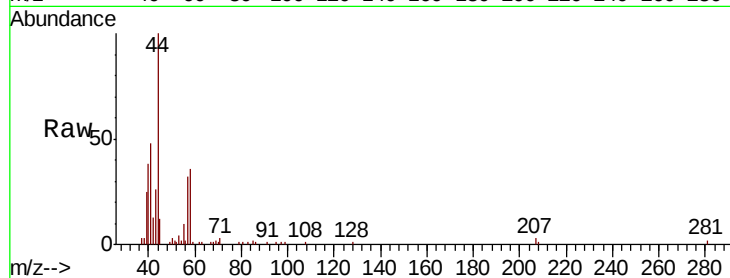




#48
Methvl methacrylate
Concen: 13.812 ug/l
RT: 9.43 min Scan# 1277
Delta R.T. -0.03 min
Lab File: VD064184.D
Acq: 11 Nov 2019 18:12

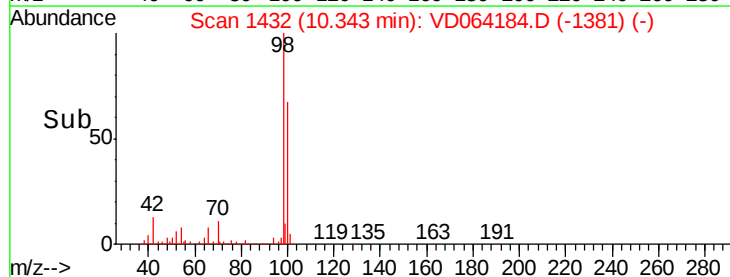
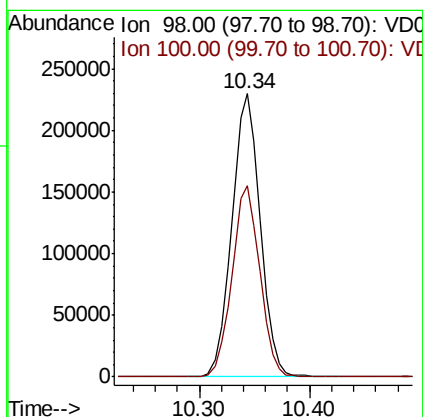
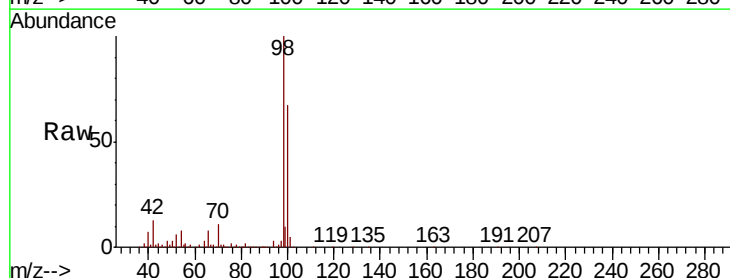
Instrument :
MSVOA_D
ClientSampleId :

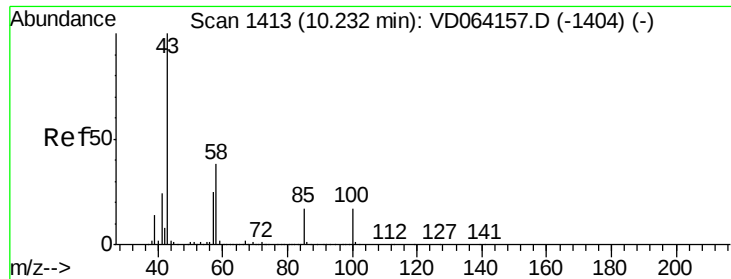
Tot Ion: 41 Resp: 18485
Ion Ratio Lower Upper
41 100
69 0.9 64.6 97.0#
39 63.5 48.2 72.2



#50
Toluene-d8
Concen: 55.953 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064184.D
Acq: 11 Nov 2019 18:12

Tgt Ion: 98 Resp: 413672
Ion Ratio Lower Upper
98 100
100 66.5 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 2.389 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD064184.D

Acq: 11 Nov 2019 18:12

Instrument :

MSVOA_D

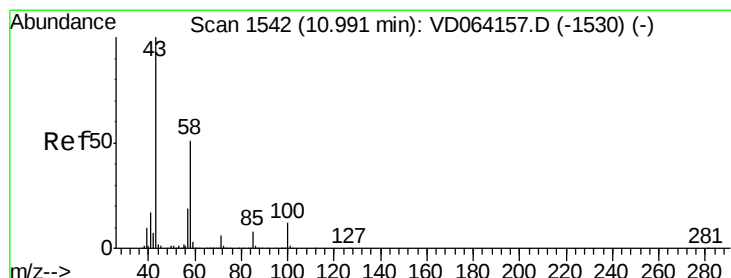
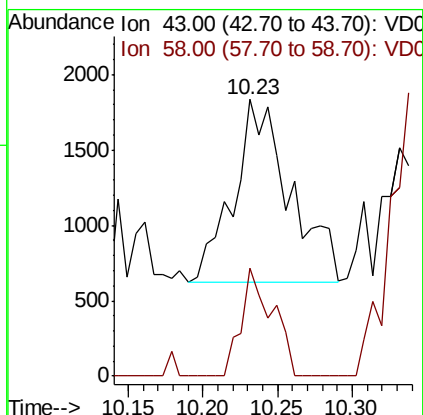
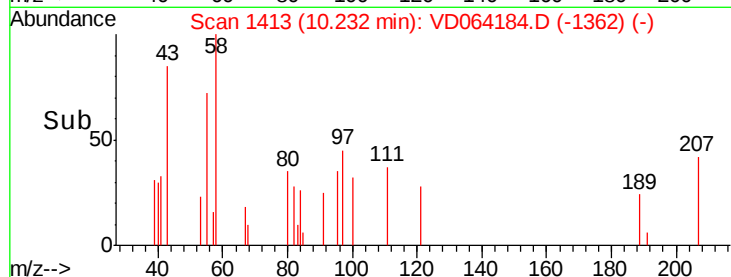
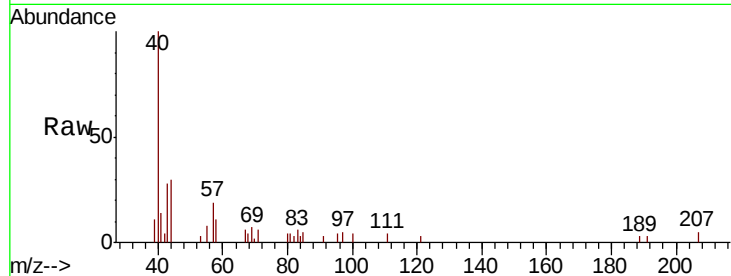
ClientSampled :

Tot Ion: 43 Resp: 3136

Ion Ratio Lower Upper

43 100

58 33.2 30.2 45.4



#59

2-Hexanone

Concen: 19.433 ug/l

RT: 10.99 min Scan# 1542

Delta R.T. -0.00 min

Lab File: VD064184.D

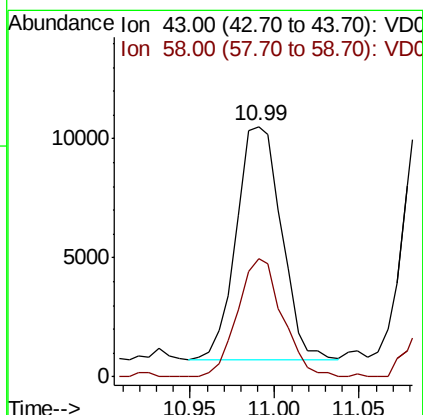
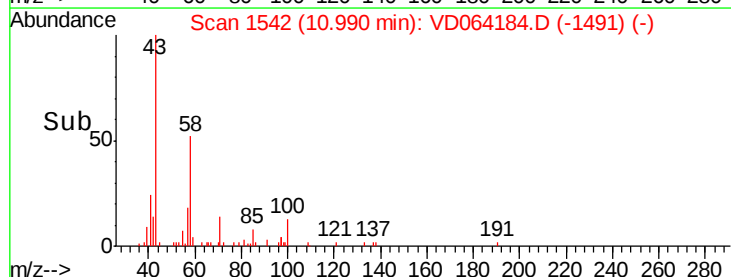
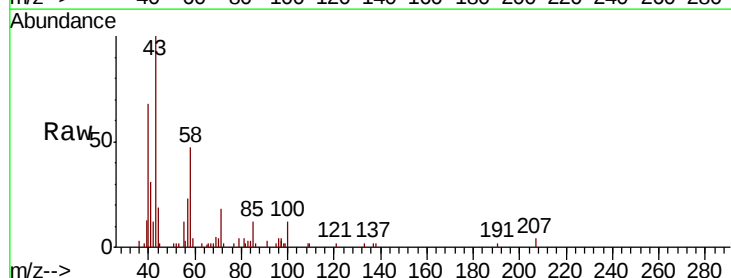
Acq: 11 Nov 2019 18:12

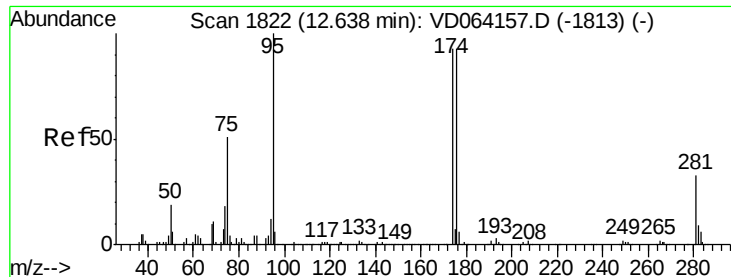
Tgt Ion: 43 Resp: 18146

Ion Ratio Lower Upper

43 100

58 50.6 25.9 77.7





#62

4-Bromofluorobenzene

Concen: 70.550 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064184.D

Acq: 11 Nov 2019 18:12

Instrument :

MSVOA_D

ClientSampled :

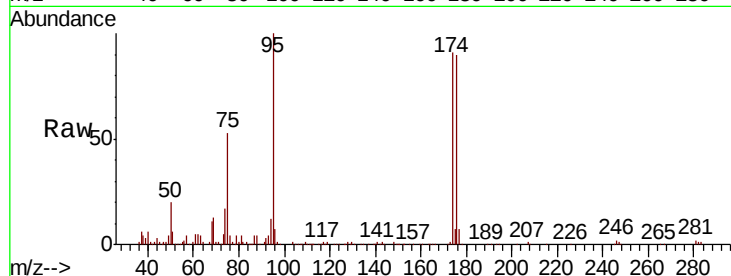
Tot Ion: 95 Resp: 180630

Ion Ratio Lower Upper

95 100

174 91.6 0.0 183.6

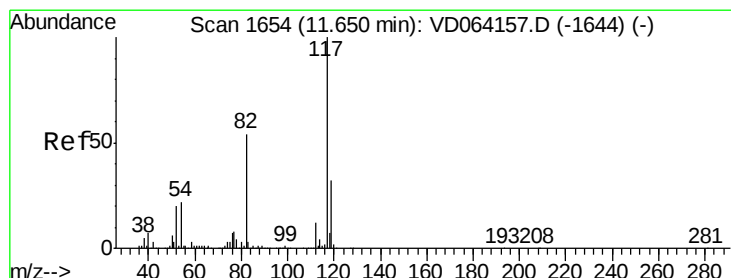
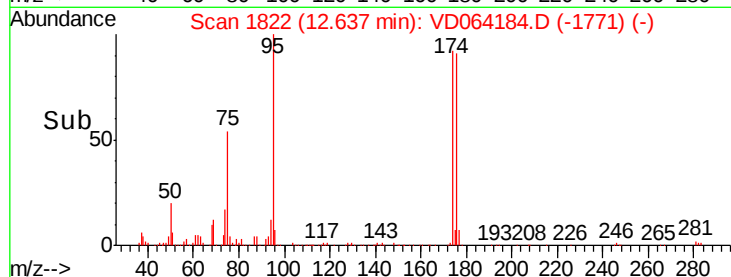
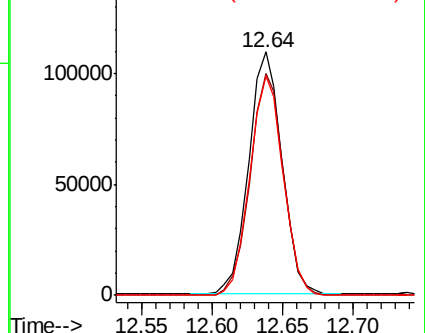
176 90.5 0.0 180.2



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: VD064184.D

Acq: 11 Nov 2019 18:12

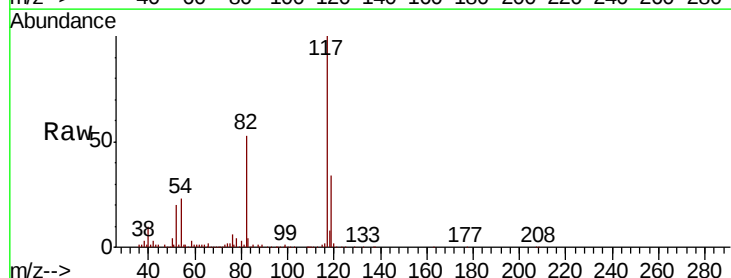
Tgt Ion: 117 Resp: 359384

Ion Ratio Lower Upper

117 100

82 52.6 42.8 64.2

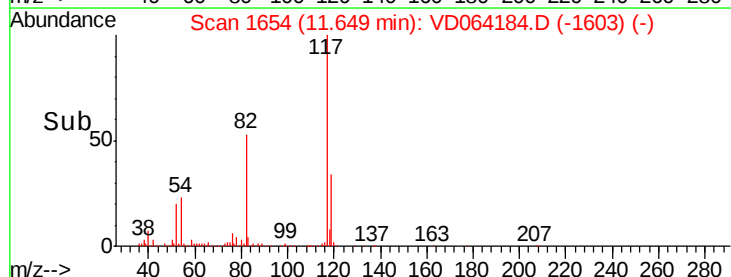
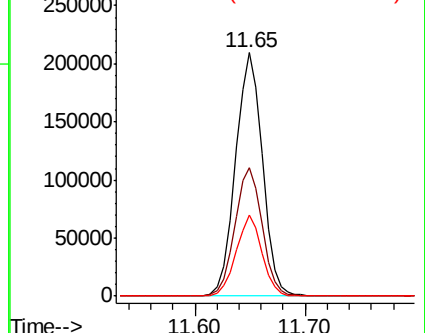
119 33.5 25.6 38.4

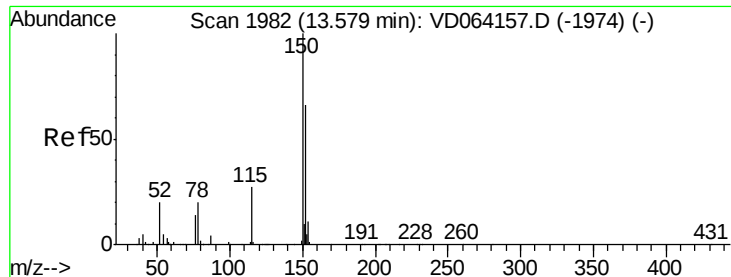


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD064184.D

Acq: 11 Nov 2019 18:12

Instrument :

MSVOA_D

ClientSampleId :

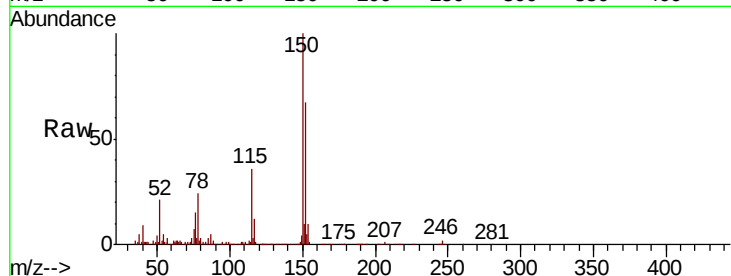
Tot Ion:152 Resp: 200690

Ion Ratio Lower Upper

152 100

115 55.6 27.4 82.2

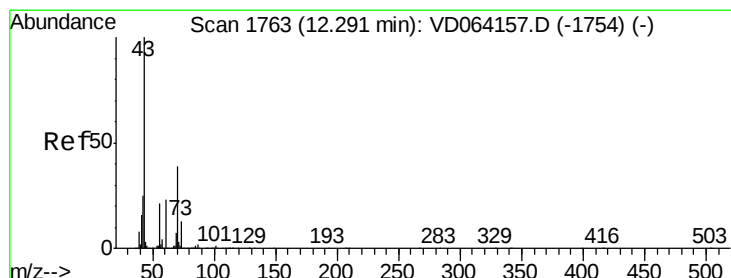
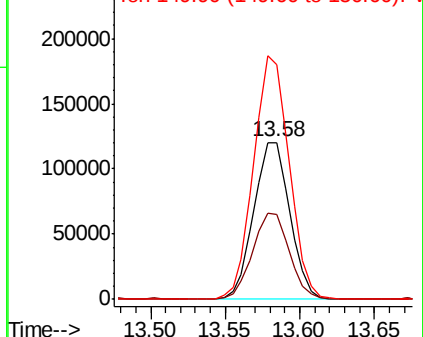
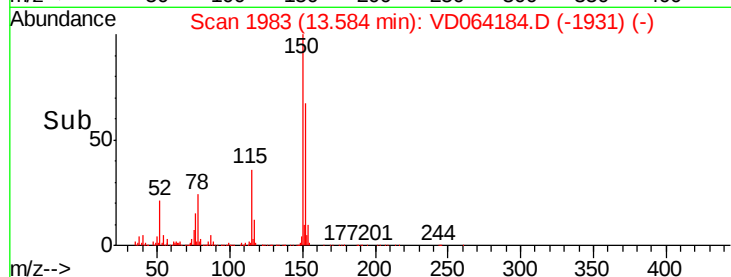
150 152.9 0.0 351.6



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: 10.075 ug/l

RT: 12.26 min Scan# 1758

Delta R.T. -0.03 min

Lab File: VD064184.D

Acq: 11 Nov 2019 18:12

Tgt Ion: 43 Resp: 35046

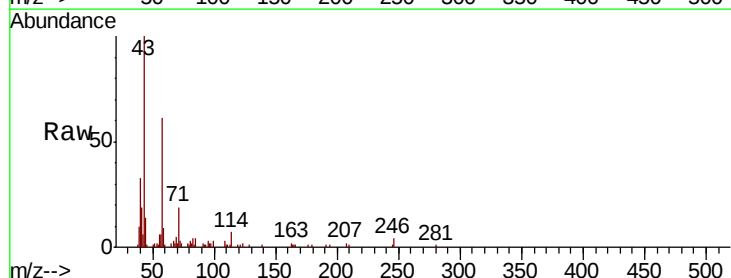
Ion Ratio Lower Upper

43 100

70 0.0 32.4 48.6#

55 8.2 17.9 26.9#

61 0.0 19.0 28.4#

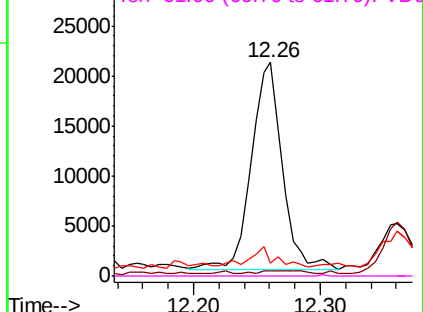
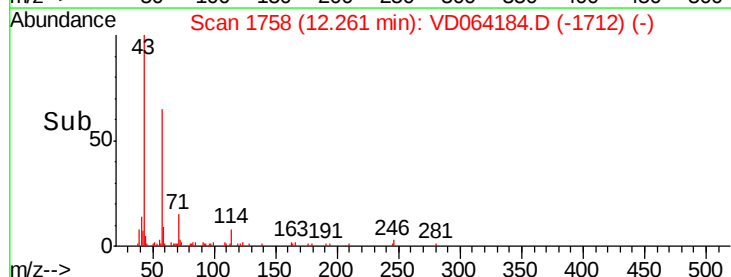


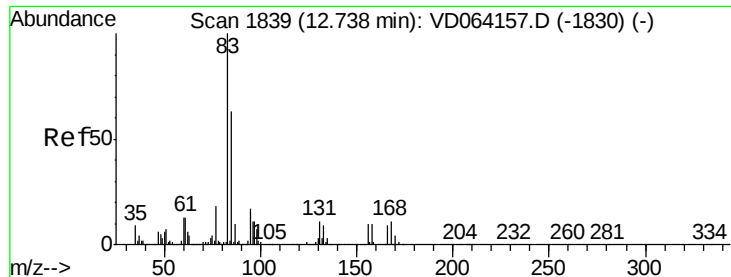
Abundance Ion 43.00 (42.70 to 43.70): VDC

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





#75

1,1,2,2-Tetrachloroethane

Concen: 2.930 ug/l

RT: 12.76 min Scan# 1842

Delta R.T. 0.02 min

Lab File: VD064184.D

Acq: 11 Nov 2019 18:12

Instrument :

MSVOA_D

ClientSampled :

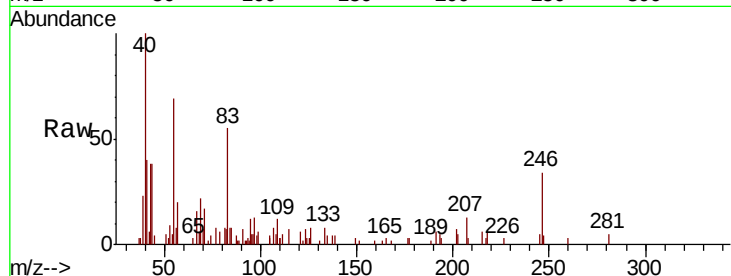
Tot Ion: 83 Resp: 6504

Ion Ratio Lower Upper

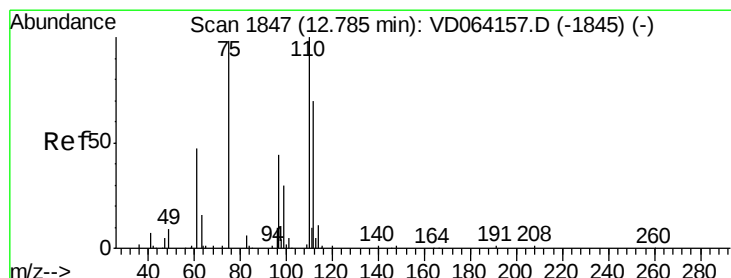
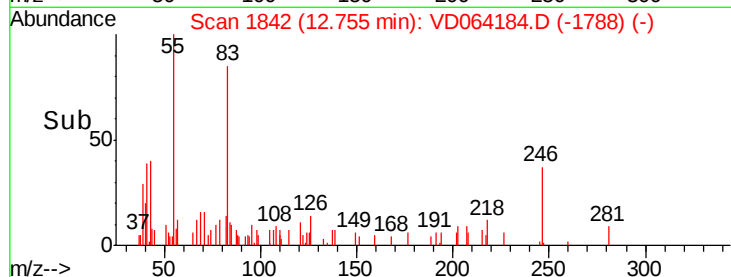
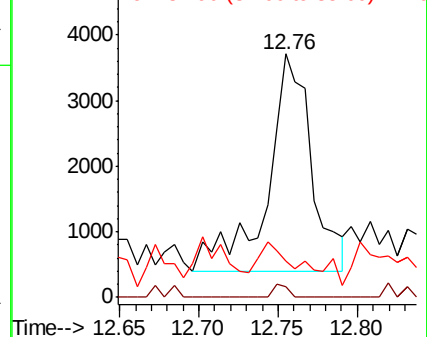
83 100

131 2.0 5.9 17.7#

85 8.4 32.5 97.5#



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 130.80 (130.50 to 131.50): VDC
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 58.350 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064184.D

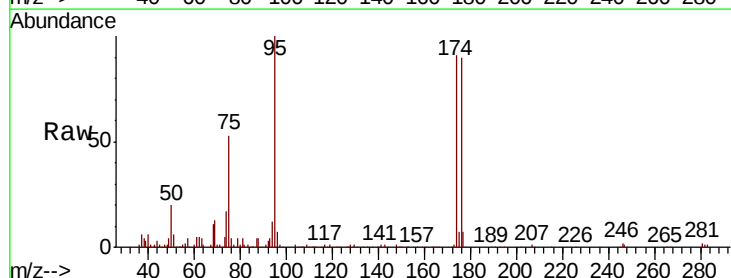
Acq: 11 Nov 2019 18:12

Tgt Ion: 75 Resp: 94323

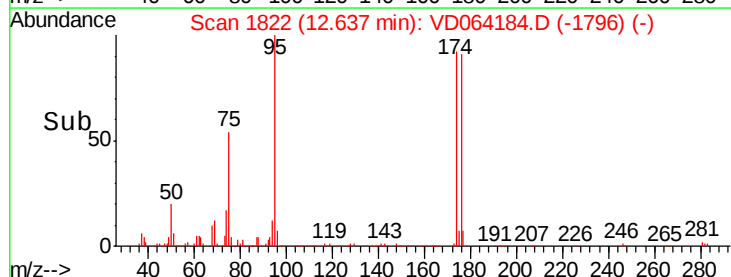
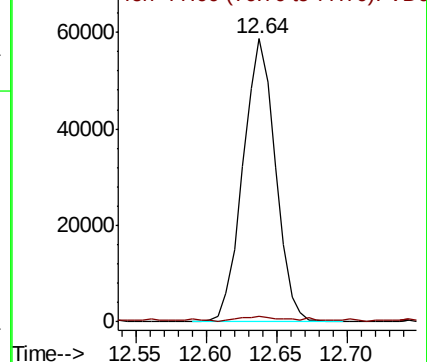
Ion Ratio Lower Upper

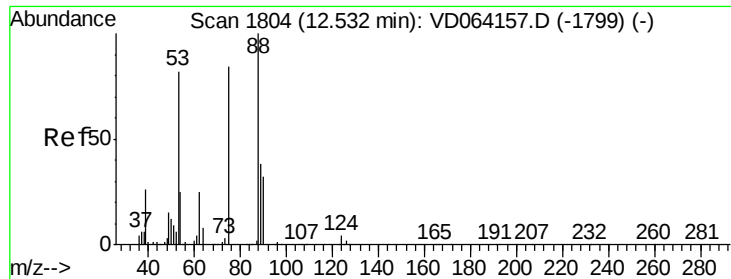
75 100

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: 115.906 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064184.D

Acq: 11 Nov 2019 18:12

Instrument :

MSVOA_D

ClientSampleId :

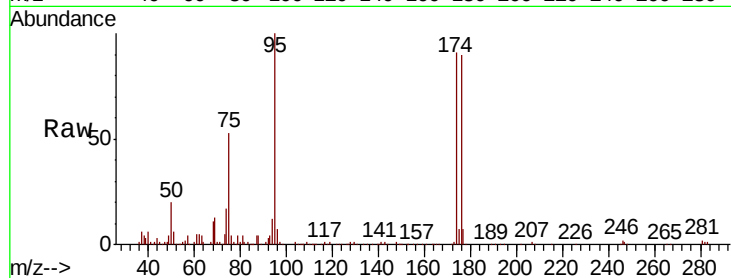
Tot Ion: 75 Resp: 94323

Ion Ratio Lower Upper

75 100

53 0.7 79.4 119.0#

89 0.5 36.6 55.0#



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

