

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102919\
 Data File : VD064103.D
 Acq On : 29 Oct 2019 22:00
 Operator : VA/SY
 Sample : K5599-07
 Misc : 5.92G/5.00ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 30 08:10:34 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	235641	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	404756	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	411625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	211841	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	105351	56.22	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	112.44%	
35) Dibromofluoromethane	7.92	113	122783	49.31	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.62%	
50) Toluene-d8	10.34	98	484239	48.63	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	12.64	95	169935	51.47	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.94%	

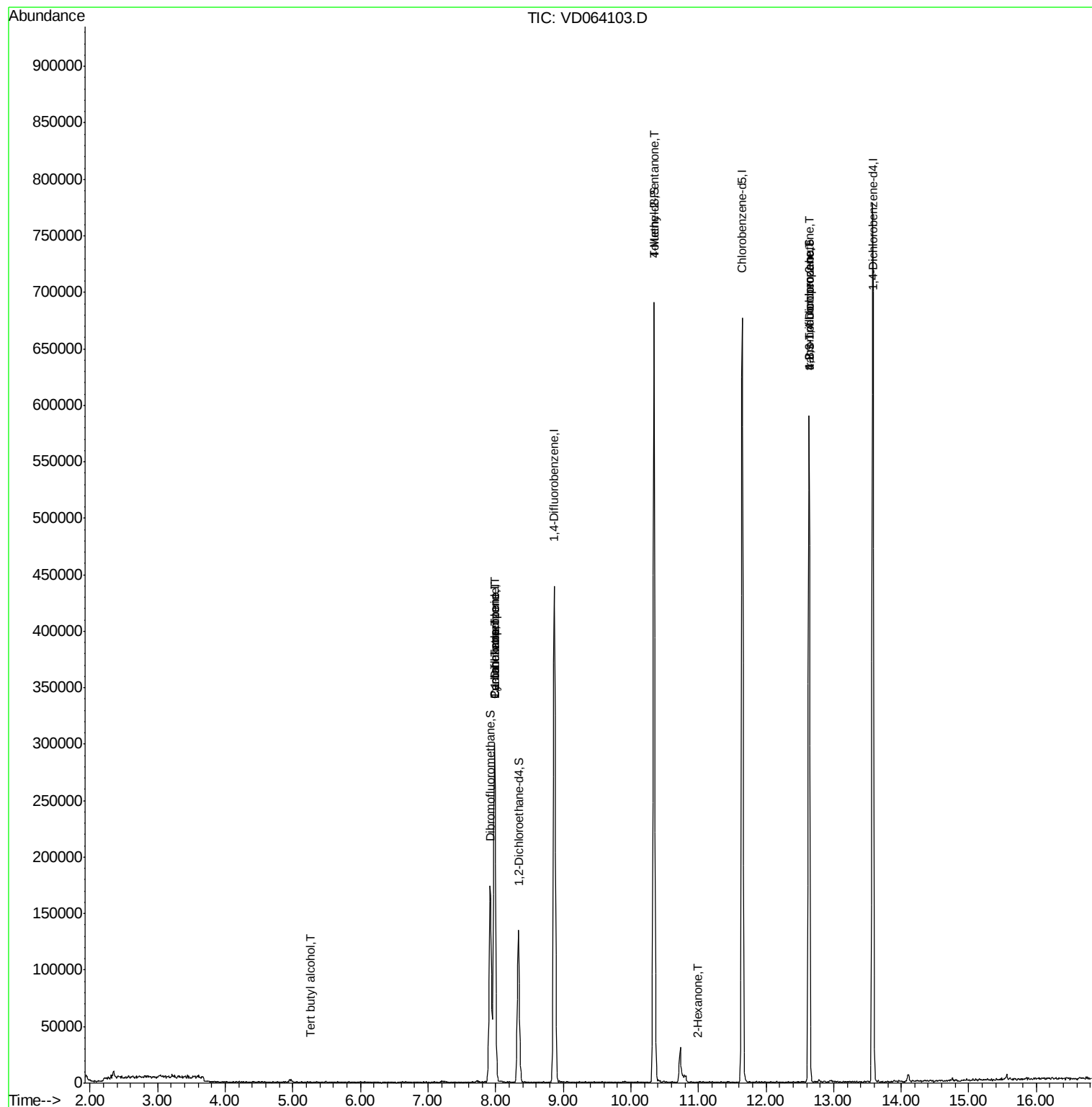
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.25	59	218	8.162	ug/l #	71
20) Methylene Chloride	4.97	84	1287	Below Cal	#	71
31) Cyclohexane	7.98	56	4813	1.381	ug/l #	54
36) 1,1-Dichloropropene	7.99	75	15986	4.215	ug/l #	48
38) Carbon Tetrachloride	7.98	117	22567	5.454	ug/l #	18
51) 4-Methyl-2-Pentanone	10.34	43	2190	1.705	ug/l #	1
59) 2-Hexanone	10.98	43	140	9.148	ug/l #	22
76) 1,2,3-Trichloropropane	12.64	75	88984	62.513	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	88984	127.667	ug/l #	15

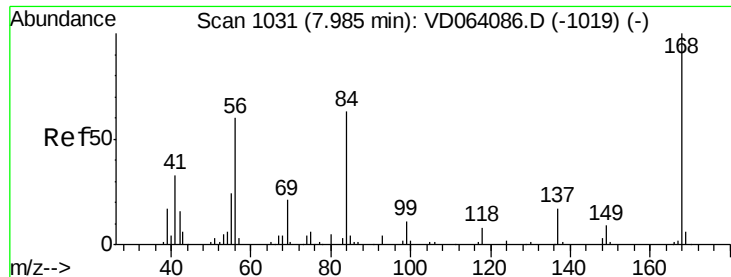
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064103.D

Acq: 29 Oct 2019 22:00

Instrument :

MSVOA_D

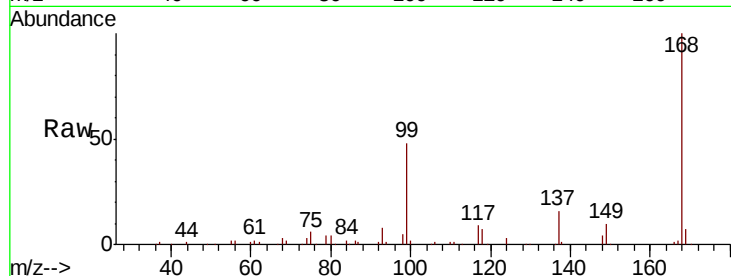
ClientSampleId :

Tot Ion:168 Resp: 235641

Ion Ratio Lower Upper

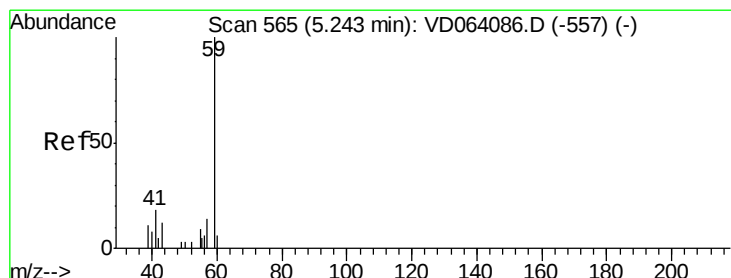
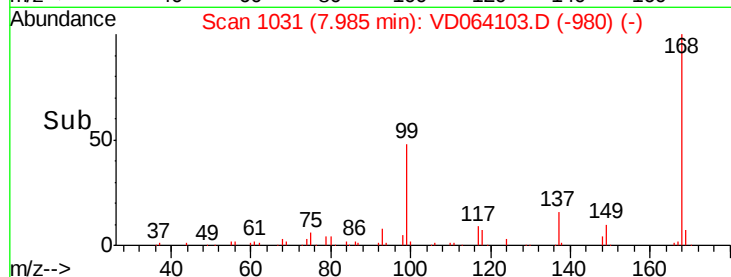
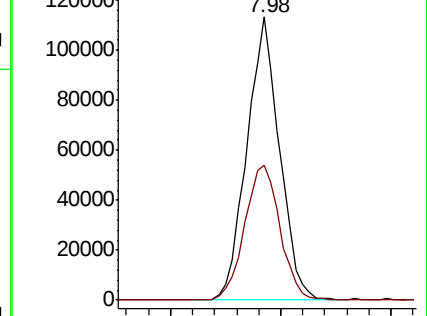
168 100

99 47.7 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 8.162 ug/l

RT: 5.25 min Scan# 566

Delta R.T. 0.01 min

Lab File: VD064103.D

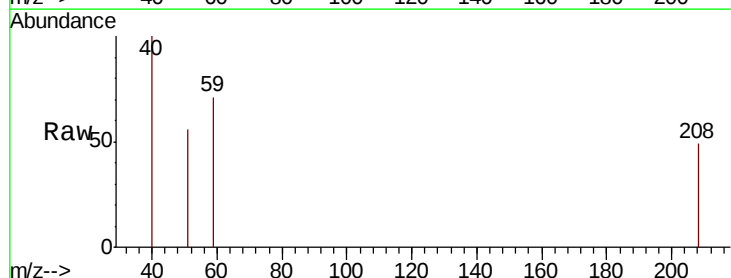
Acq: 29 Oct 2019 22:00

Tgt Ion: 59 Resp: 218

Ion Ratio Lower Upper

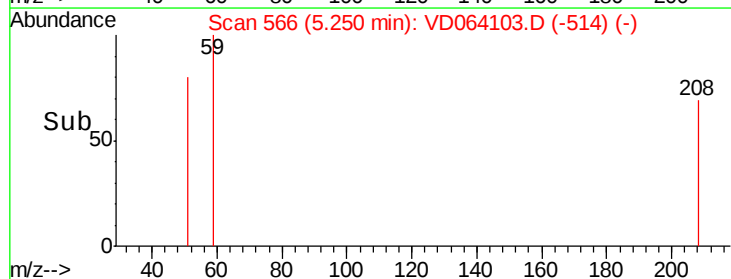
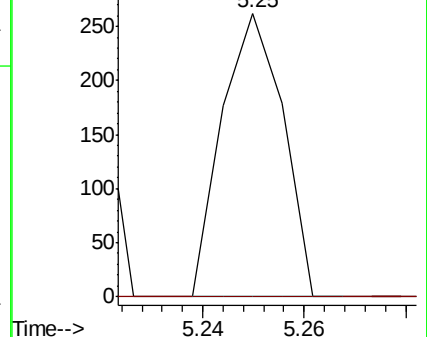
59 100

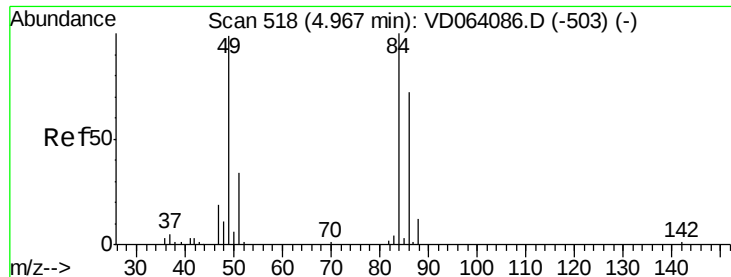
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

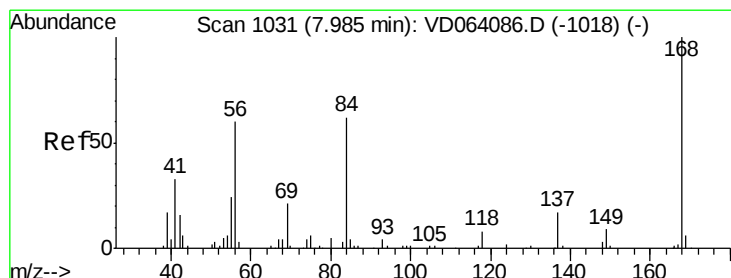
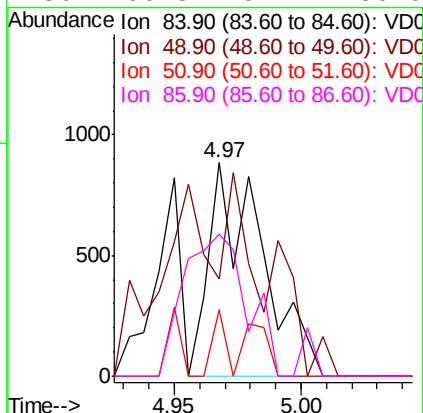
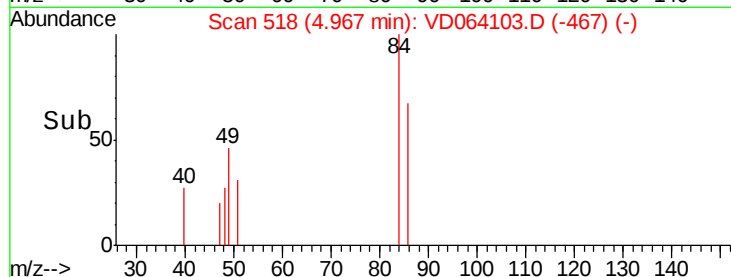
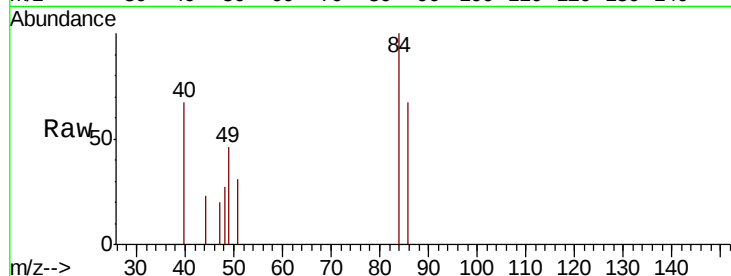




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD064103.D
Acq: 29 Oct 2019 22:00

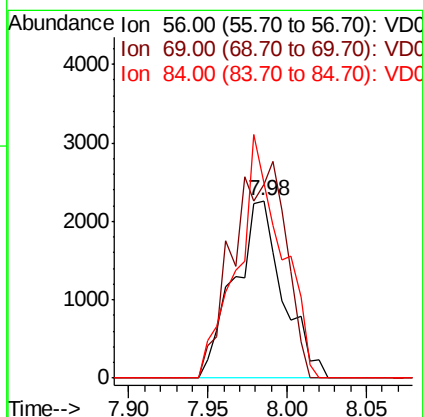
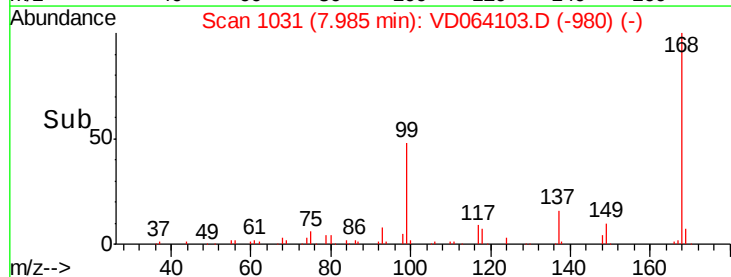
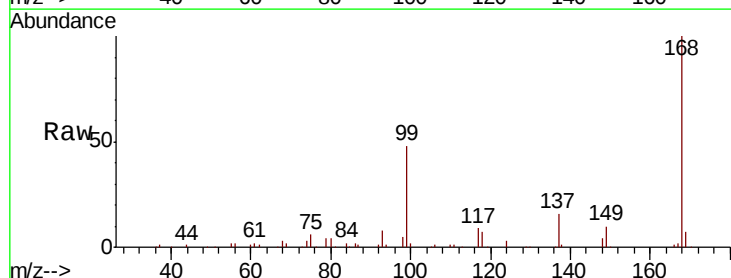
Instrument :
MSVOA_D
ClientSampleId :

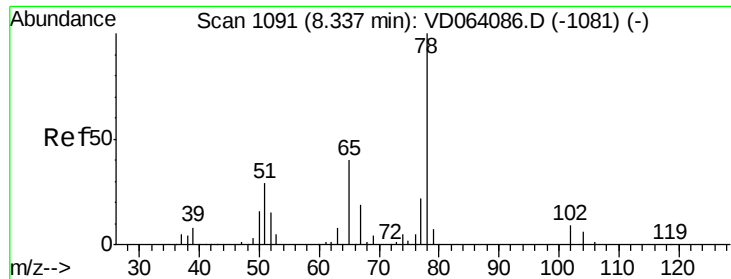
Tot Ion: 84 Resp: 1287
Ion Ratio Lower Upper
84 100
49 45.5 79.4 119.0#
51 30.8 27.4 41.2
86 66.8 57.4 86.0



#31
Cyclohexane
Concen: 1.381 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064103.D
Acq: 29 Oct 2019 22:00

Tgt Ion: 56 Resp: 4813
Ion Ratio Lower Upper
56 100
69 109.4 27.7 41.5#
84 122.2 83.1 124.7





#33

1,2-Dichloroethane-d4

Concen: 56.215 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD064103.D

Acq: 29 Oct 2019 22:00

Instrument :

MSVOA_D

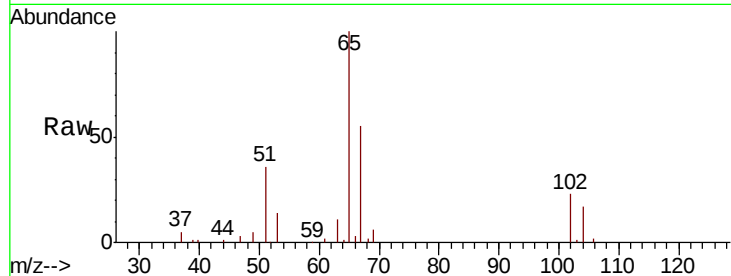
ClientSampled :

Tot Ion: 65 Resp: 105351

Ion Ratio Lower Upper

65 100

67 52.7 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

50000

40000

30000

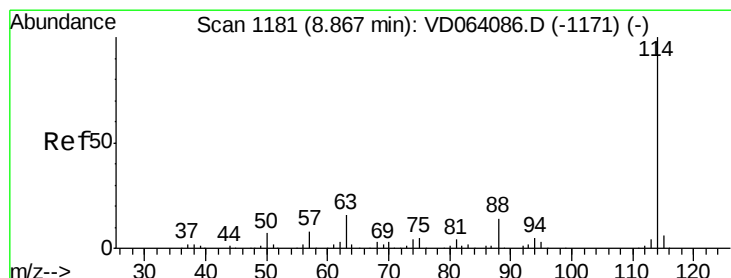
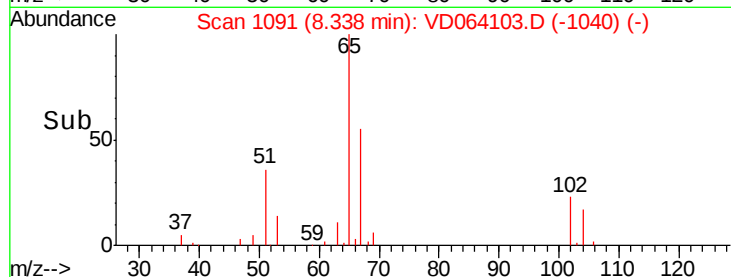
20000

10000

0

8.30 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064103.D

Acq: 29 Oct 2019 22:00

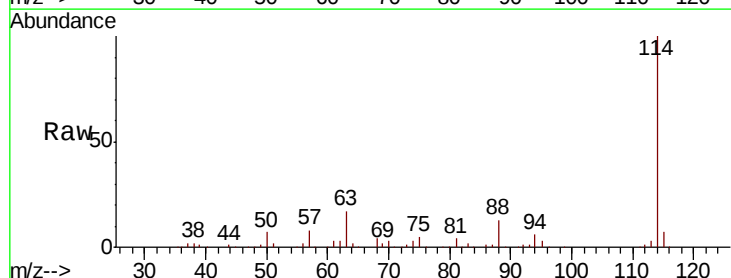
Tgt Ion:114 Resp: 404756

Ion Ratio Lower Upper

114 100

63 16.8 0.0 32.8

88 13.2 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

250000

200000

150000

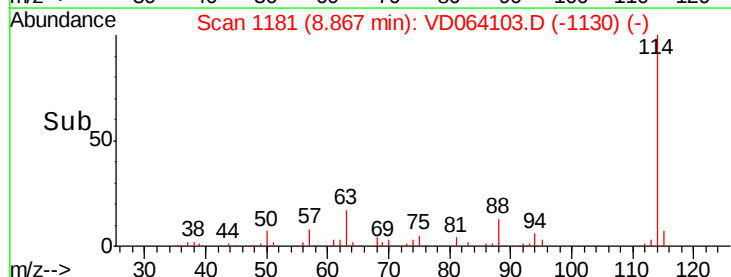
100000

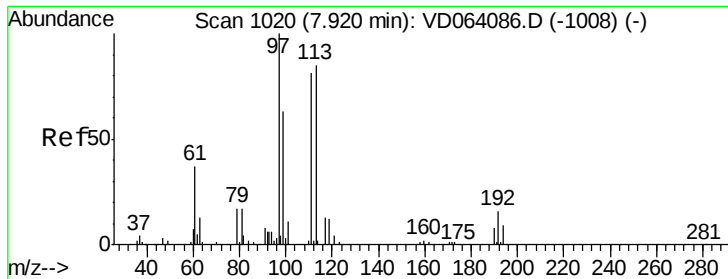
50000

0

8.80 8.90 9.00

Time-->

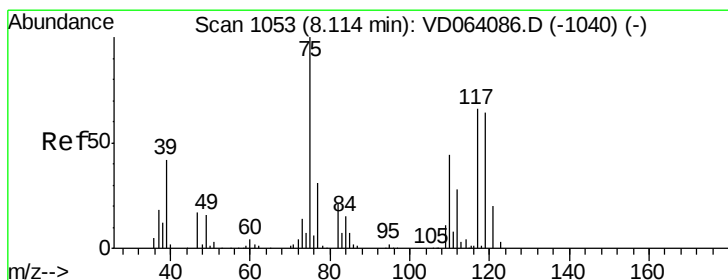
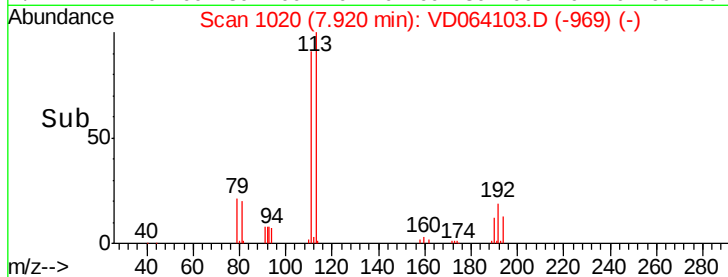
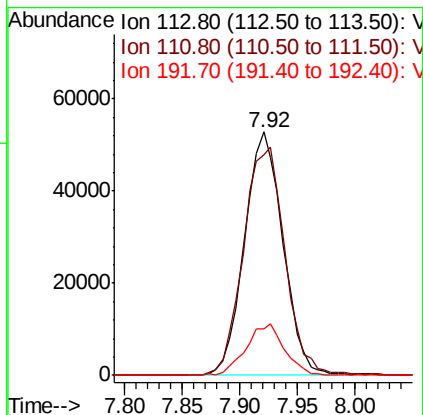
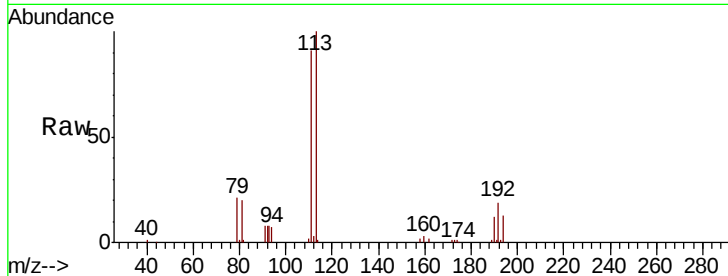




#35
 Dibromofluoromethane
 Concen: 49.307 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064103.D
 Acq: 29 Oct 2019 22:00

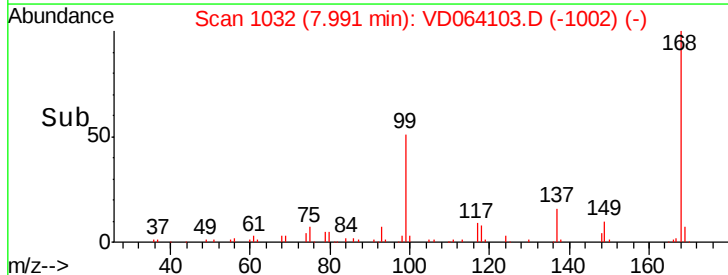
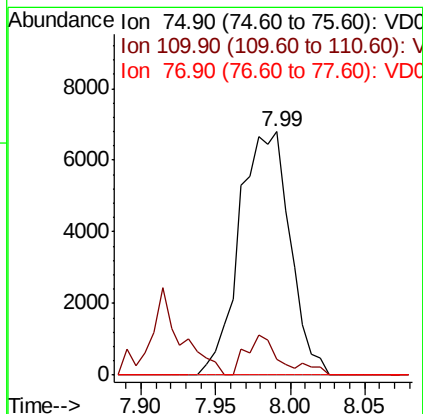
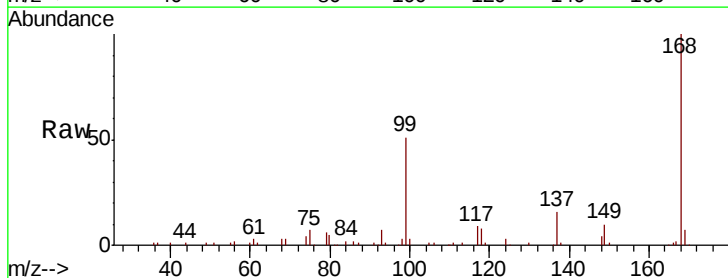
Instrument :
 MSVOA_D
 ClientSampleId :

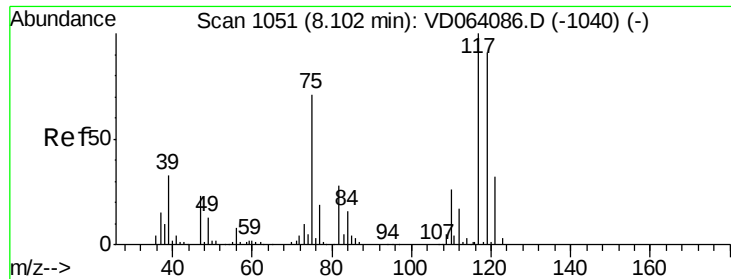
Tot Ion:113 Resp: 122783
 Ion Ratio Lower Upper
 113 100
 111 101.2 79.3 118.9
 192 20.9 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.215 ug/l
 RT: 7.99 min Scan# 1032
 Delta R.T. -0.12 min
 Lab File: VD064103.D
 Acq: 29 Oct 2019 22:00

Tgt Ion: 75 Resp: 15986
 Ion Ratio Lower Upper
 75 100
 110 9.7 20.0 59.9#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.454 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.12 min

Lab File: VD064103.D

Acq: 29 Oct 2019 22:00

Instrument :

MSVOA_D

ClientSampled :

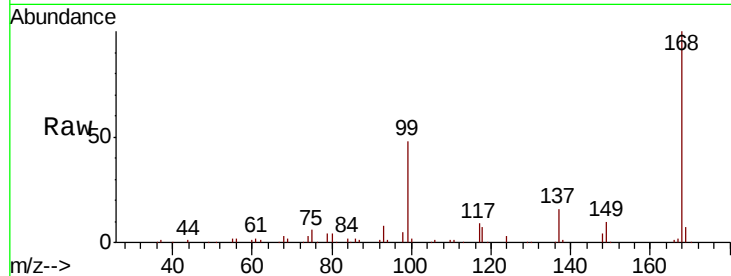
Tot Ion:117 Resp: 22567

Ion Ratio Lower Upper

117 100

119 5.0 72.6 108.8#

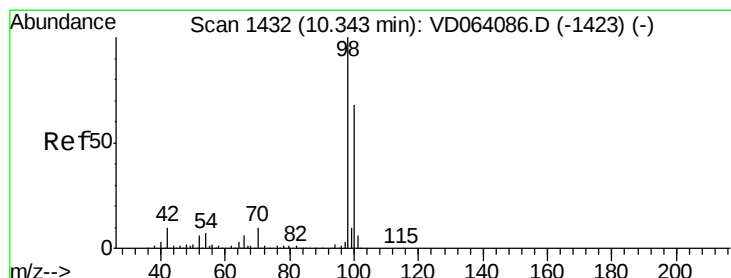
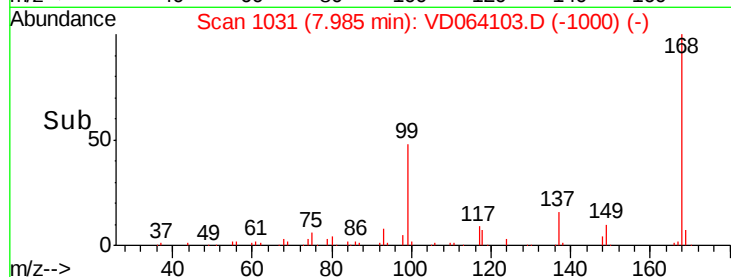
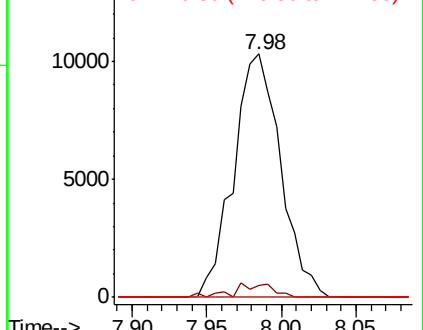
121 0.0 25.8 38.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.625 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064103.D

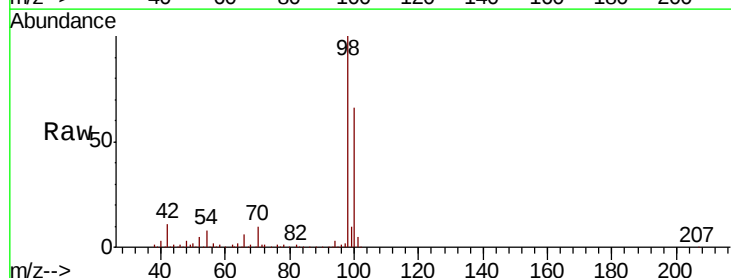
Acq: 29 Oct 2019 22:00

Tgt Ion: 98 Resp: 484239

Ion Ratio Lower Upper

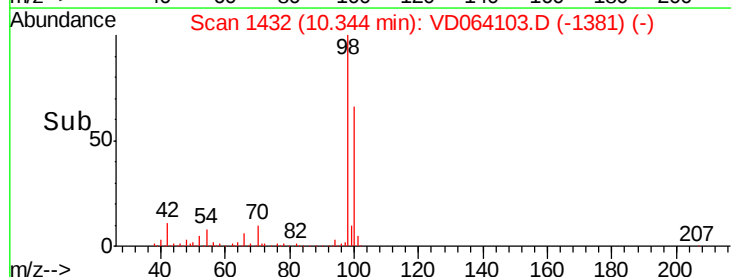
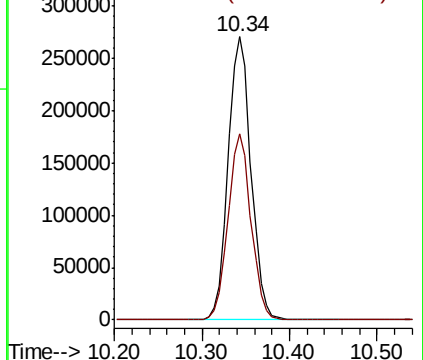
98 100

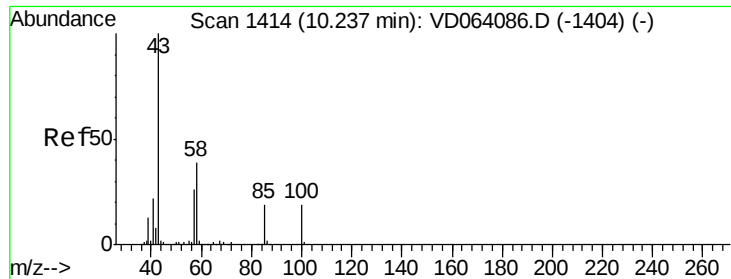
100 65.8 53.4 80.0



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: 1.705 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.10 min

Lab File: VD064103.D

Acq: 29 Oct 2019 22:00

Instrument :

MSVOA_D

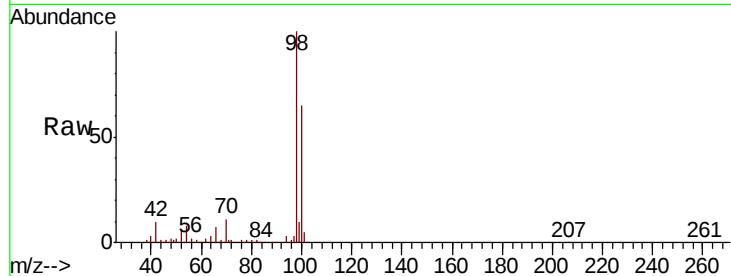
ClientSampleId :

Tot Ion: 43 Resp: 2190

Ion Ratio Lower Upper

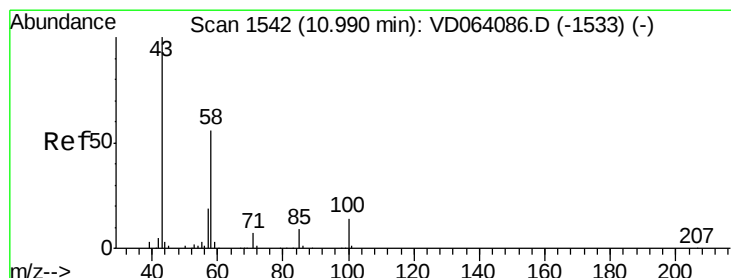
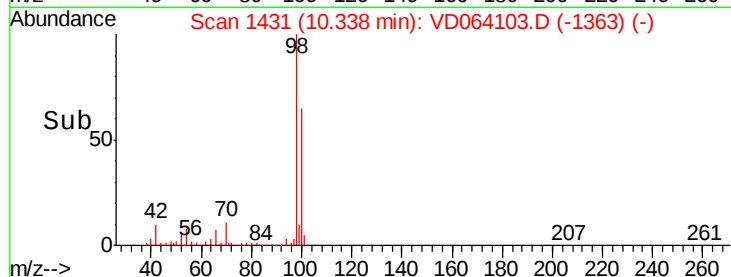
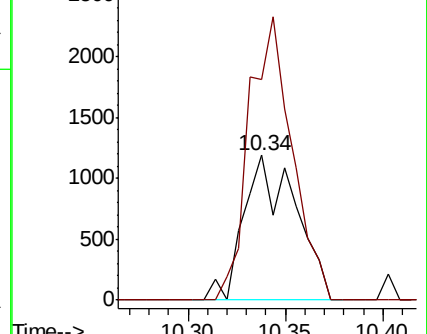
43 100

58 162.9 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: 9.148 ug/l

RT: 10.98 min Scan# 1541

Delta R.T. -0.01 min

Lab File: VD064103.D

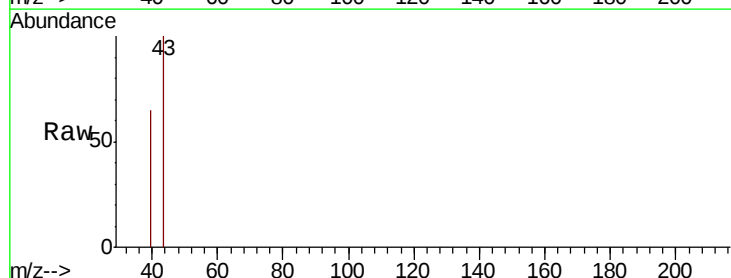
Acq: 29 Oct 2019 22:00

Tgt Ion: 43 Resp: 140

Ion Ratio Lower Upper

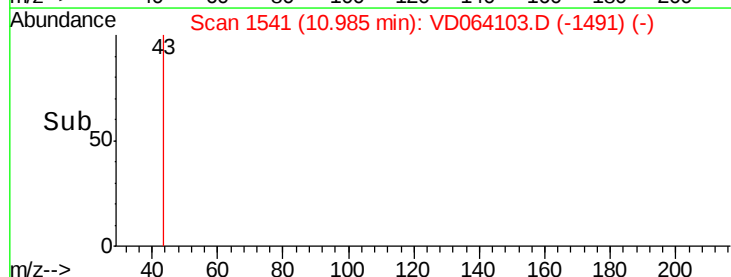
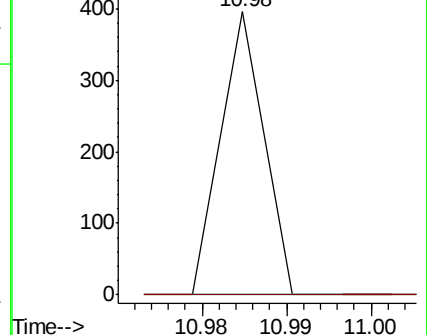
43 100

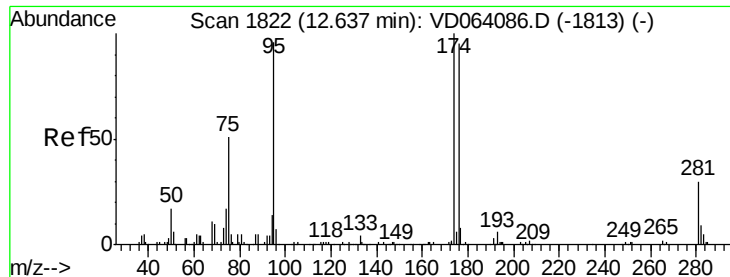
58 0.0 29.2 87.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

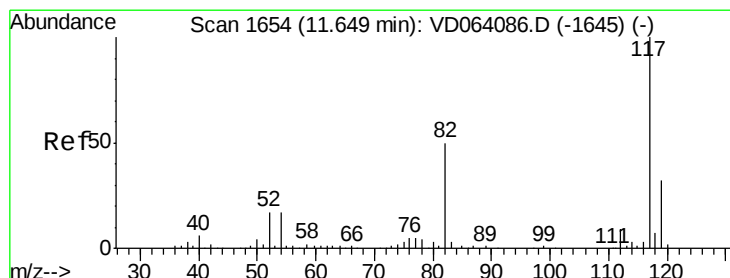
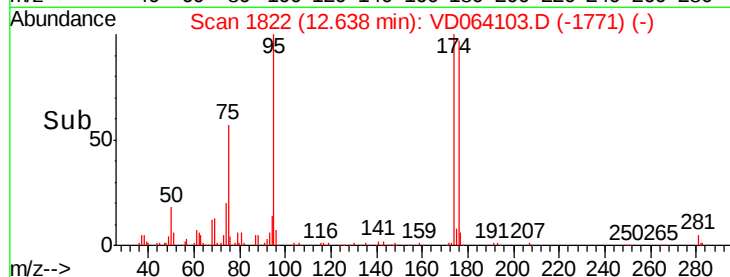
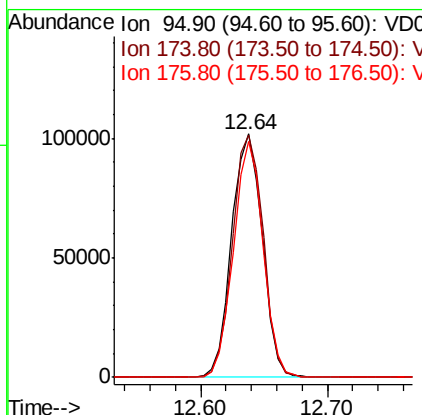
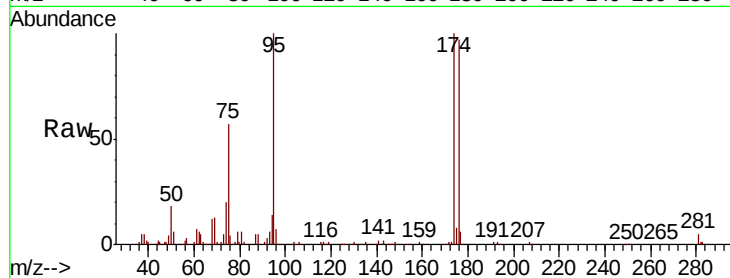




#62
4-Bromofluorobenzene
Concen: 51.471 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064103.D
Acq: 29 Oct 2019 22:00

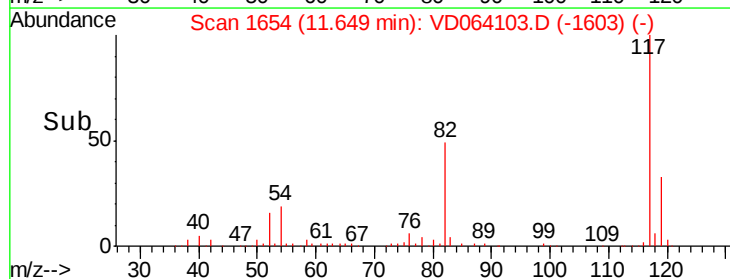
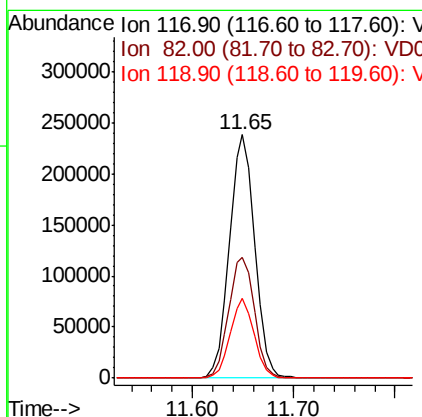
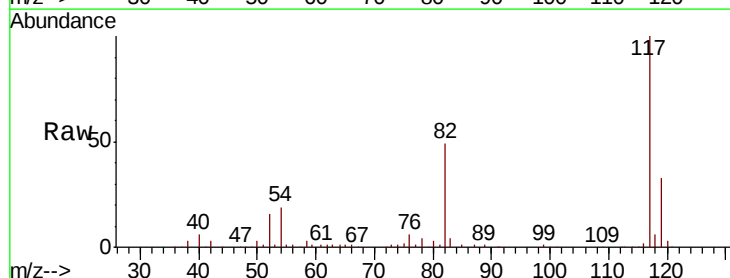
Instrument :
MSVOA_D
ClientSampled :

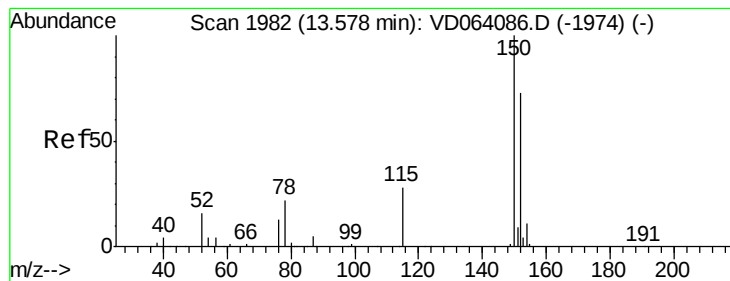
Tot Ion: 95 Resp: 169935
Ion Ratio Lower Upper
95 100
174 99.6 0.0 201.6
176 93.5 0.0 192.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064103.D
Acq: 29 Oct 2019 22:00

Tgt Ion: 117 Resp: 411625
Ion Ratio Lower Upper
117 100
82 49.3 40.2 60.4
119 32.7 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD064103.D

Acq: 29 Oct 2019 22:00

Instrument :

MSVOA_D

ClientSampleId :

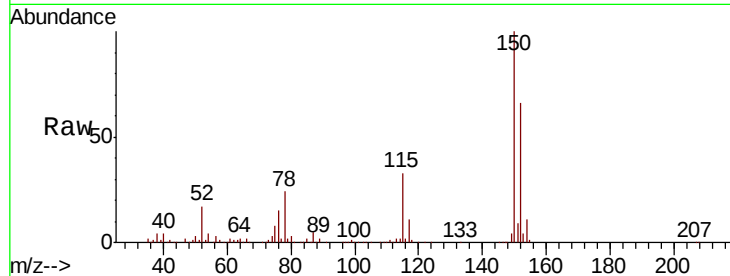
Tot Ion:152 Resp: 211841

Ion Ratio Lower Upper

152 100

115 55.0 26.2 78.6

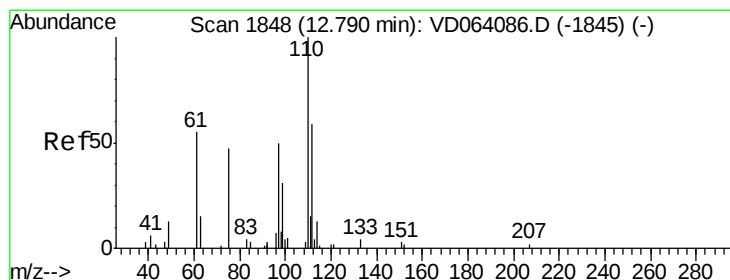
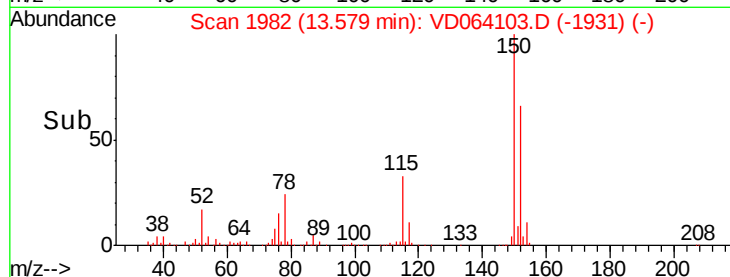
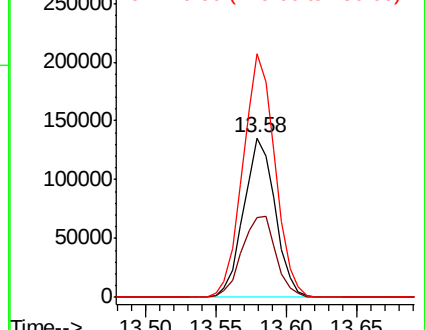
150 155.2 0.0 338.8



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: 62.513 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064103.D

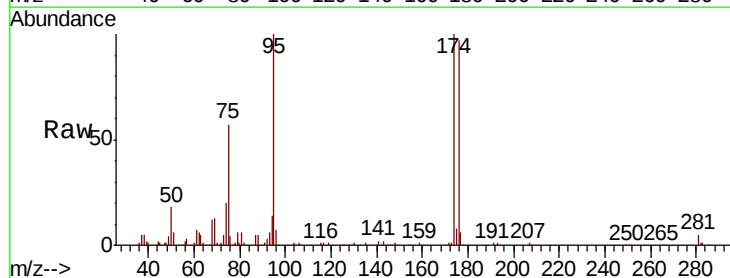
Acq: 29 Oct 2019 22:00

Tgt Ion: 75 Resp: 88984

Ion Ratio Lower Upper

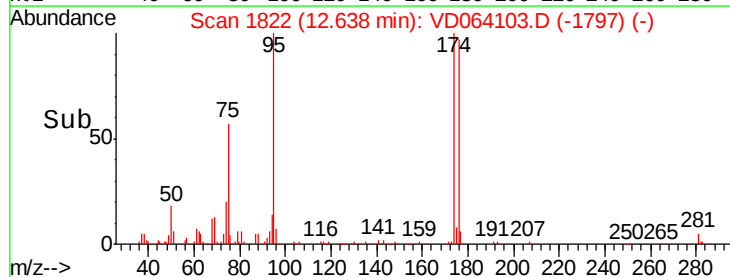
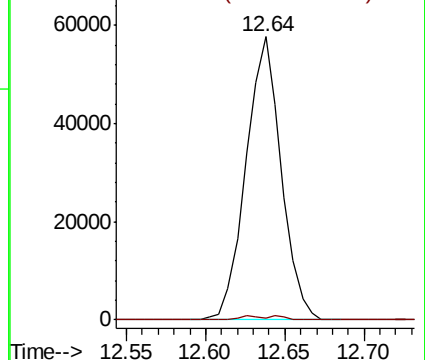
75 100

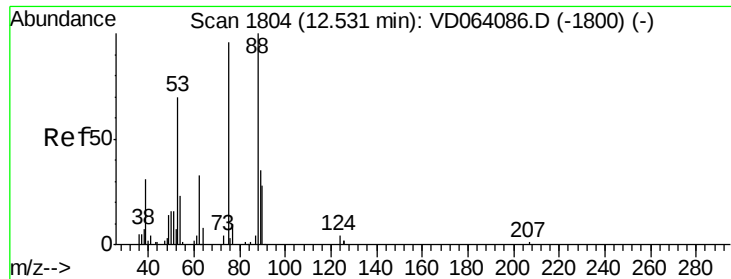
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 127.667 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064103.D

Acq: 29 Oct 2019 22:00

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 88984

Ion Ratio Lower Upper

75 100

53 0.1 68.6 103.0#

89 0.0 36.9 55.3#

