

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012920\
 Data File : VD065000.D
 Acq On : 29 Jan 2020 17:25
 Operator : VA/SY
 Sample : L1014-11
 Misc : 5.47G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 29 22:12:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	483473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	789328	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	743067	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	322655	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	251231	54.17	ug/l	0.00
Spiked Amount			Recovery	=	108.34%	
35) Dibromofluoromethane	7.92	113	249189	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
50) Toluene-d8	10.34	98	940863	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
62) 4-Bromofluorobenzene	12.64	95	300421	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	

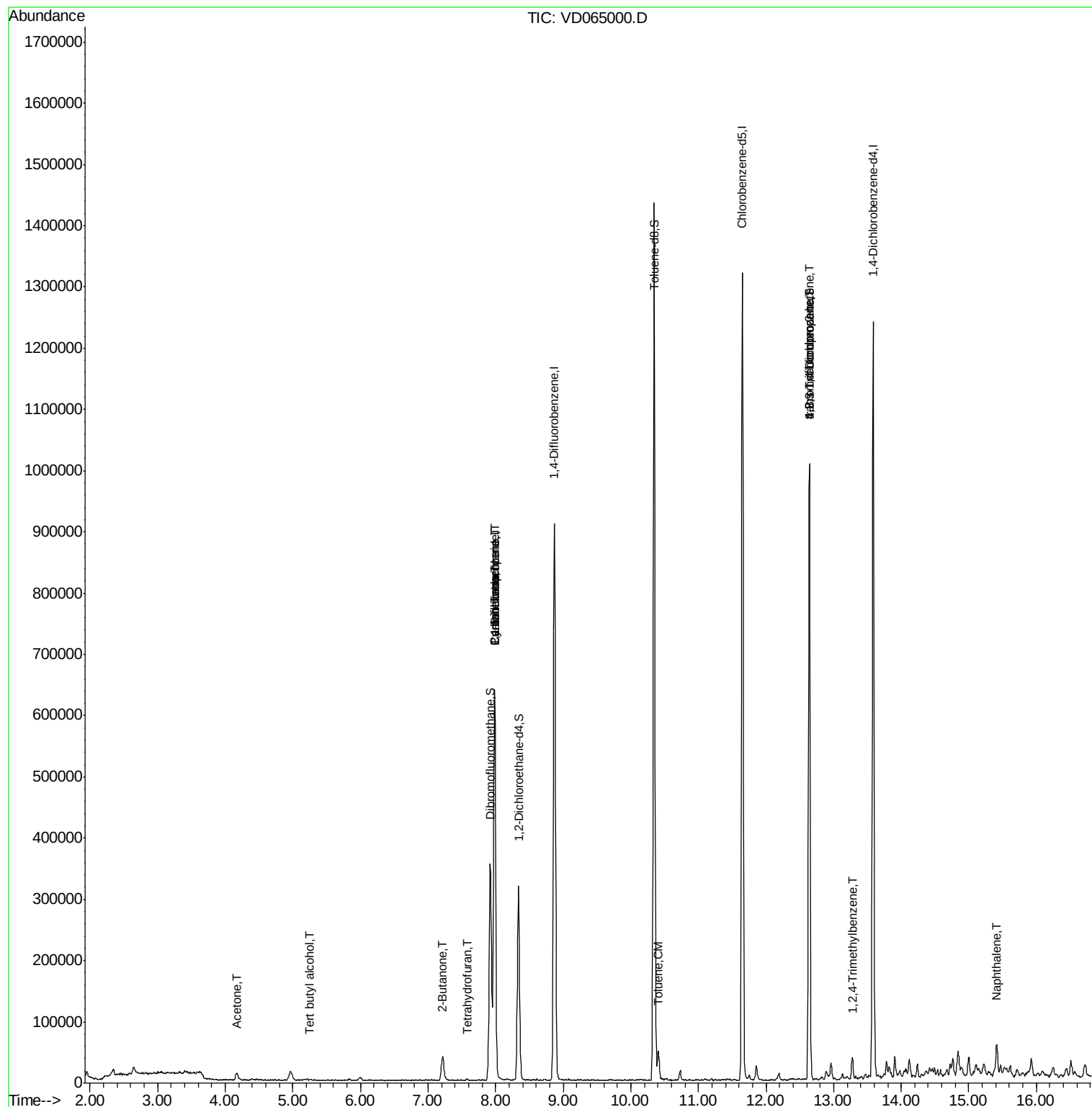
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.24	59	1218	4.753	ug/l #	74
16) Acetone	4.17	43	18526	27.412	ug/l	99
20) Methylene Chloride	4.97	84	10670	Below Cal		92
25) 2-Butanone	7.22	43	2889	2.306	ug/l #	78
29) Tetrahydrofuran	7.59	42	1616	2.090	ug/l #	73
31) Cyclohexane	7.99	56	10888	1.348	ug/l #	10
36) 1,1-Dichloropropene	7.99	75	35384	4.649	ug/l #	50
38) Carbon Tetrachloride	7.99	117	45453	5.650	ug/l #	17
52) Toluene	10.41	92	17316	1.281	ug/l	96
76) 1,2,3-Trichloropropane	12.64	75	164961	61.597	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	164961	131.524	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.28	105	19687	1.075	ug/l	98
95) Naphthalene	15.41	128	43346	4.417	ug/l	97

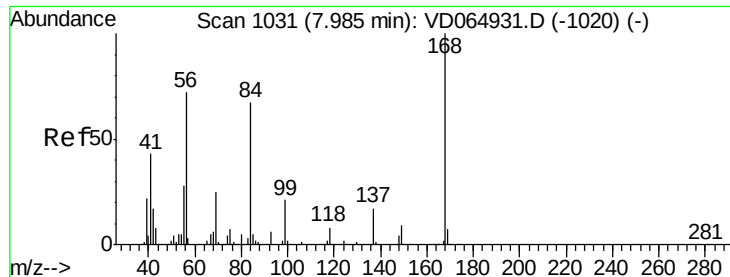
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065000.D

Acq: 29 Jan 2020 17:25

Instrument :

MSVOA_D

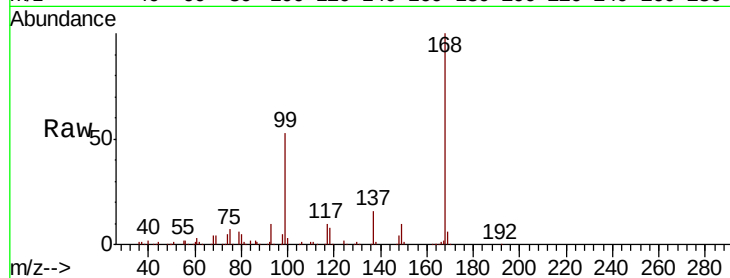
ClientSampleId :

Tot Ion:168 Resp: 483473

Ion Ratio Lower Upper

168 100

99 52.9 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

200000

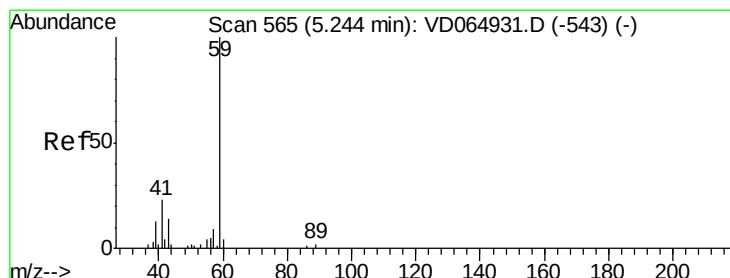
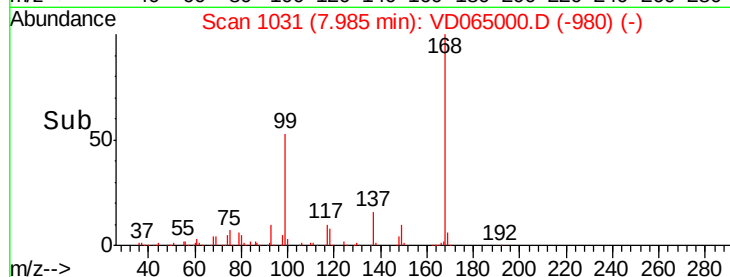
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.753 ug/l

RT: 5.24 min Scan# 565

Delta R.T. 0.00 min

Lab File: VD065000.D

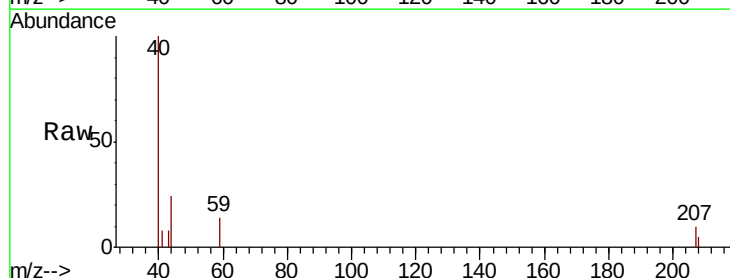
Acq: 29 Jan 2020 17:25

Tgt Ion: 59 Resp: 1218

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

800

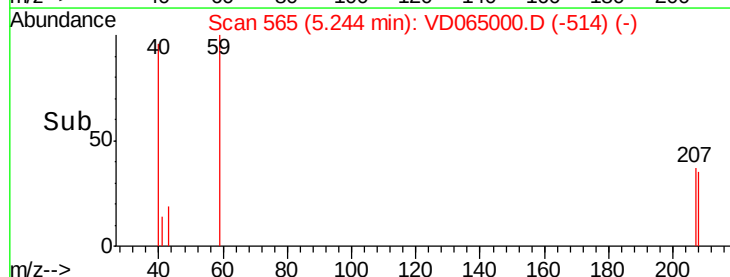
600

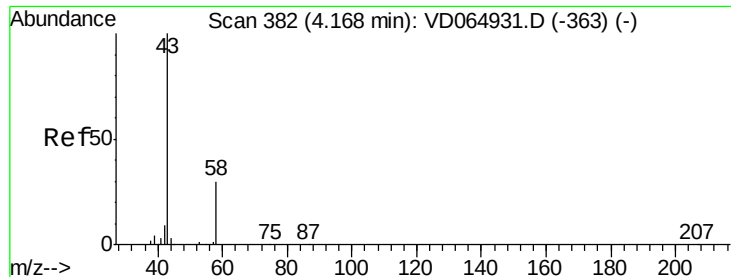
400

200

0

Time-->





#16

Acetone

Concen: 27.412 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD065000.D

Acq: 29 Jan 2020 17:25

Instrument :

MSVOA_D

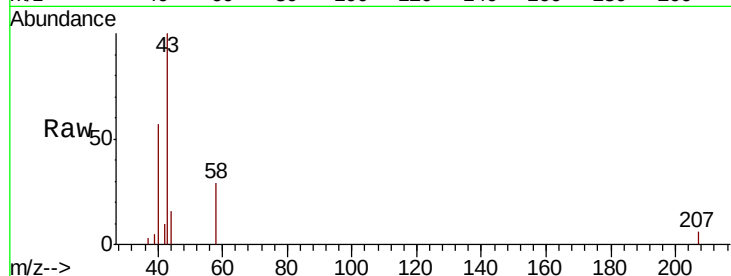
ClientSampleId :

Tot Ion: 43 Resp: 18526

Ion Ratio Lower Upper

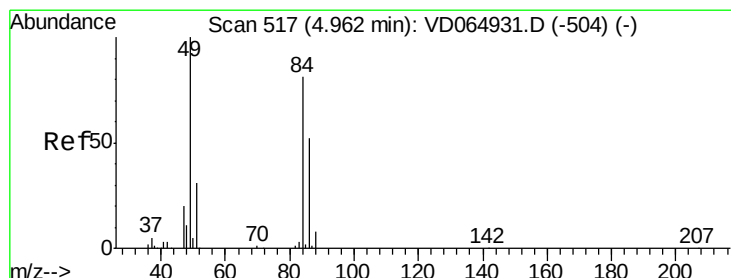
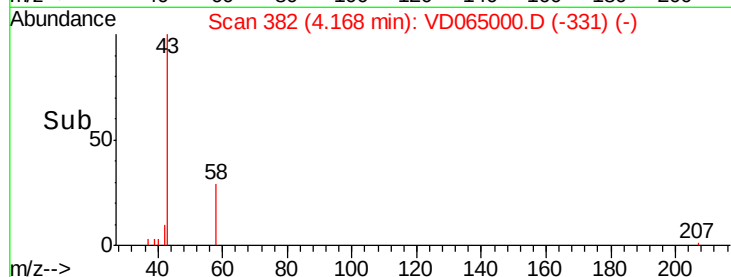
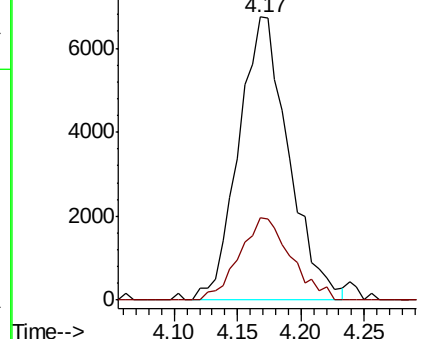
43 100

58 29.1 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD065000.D

Acq: 29 Jan 2020 17:25

Tgt Ion: 84 Resp: 10670

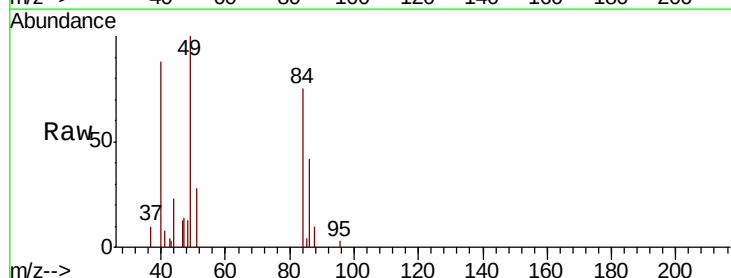
Ion Ratio Lower Upper

84 100

49 133.1 98.4 147.6

51 36.7 30.8 46.2

86 55.7 51.0 76.6

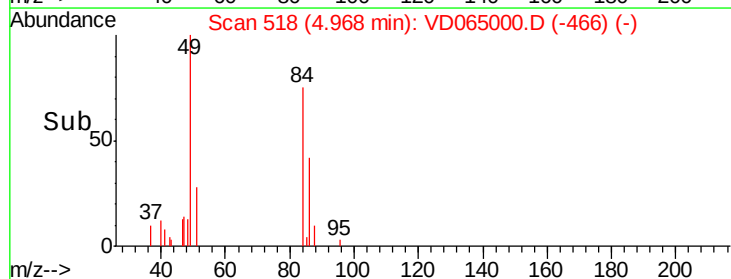
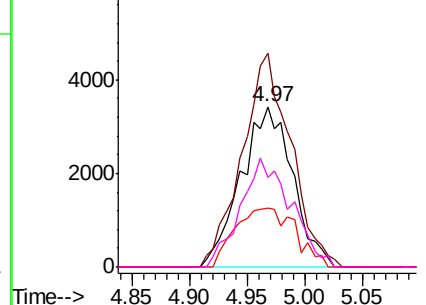


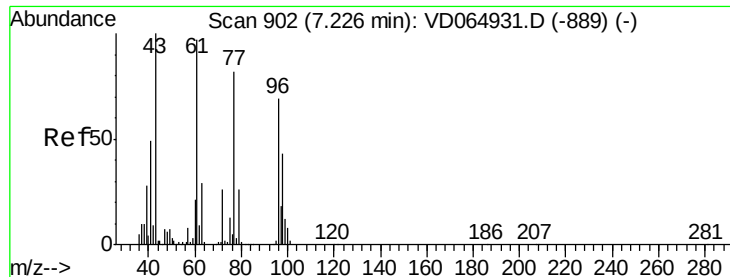
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

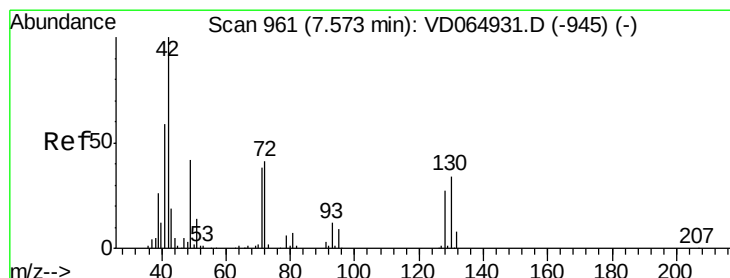
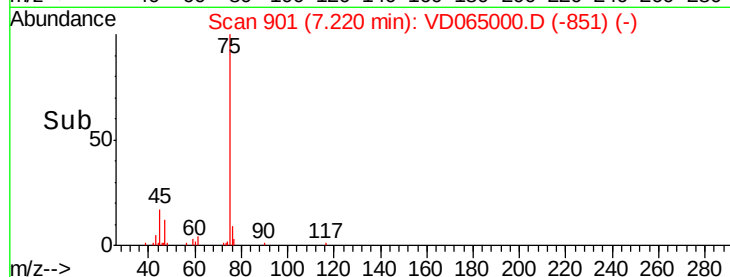
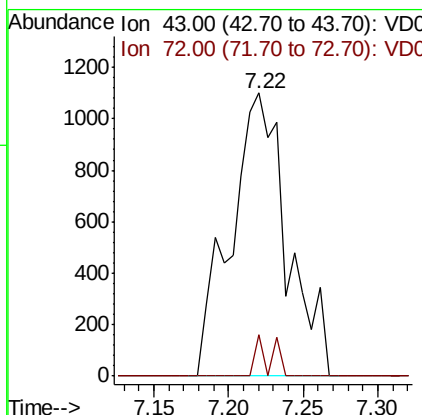
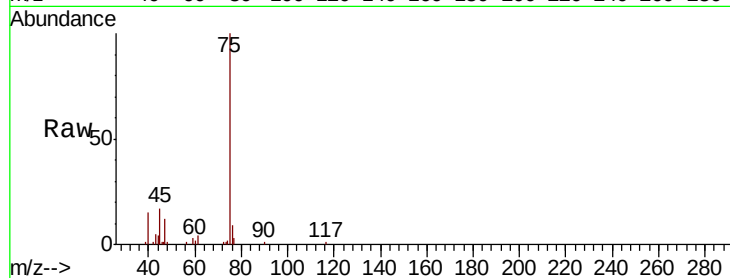




#25
2-Butanone
Concen: 2.306 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.01 min
Lab File: VD065000.D
Acq: 29 Jan 2020 17:25

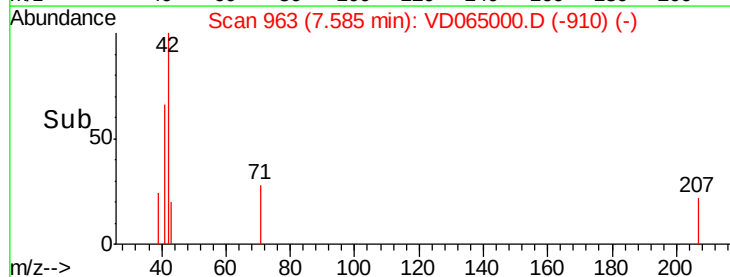
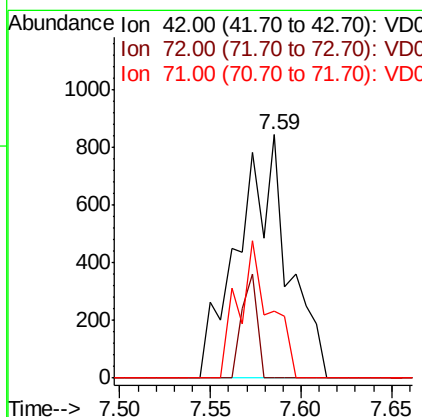
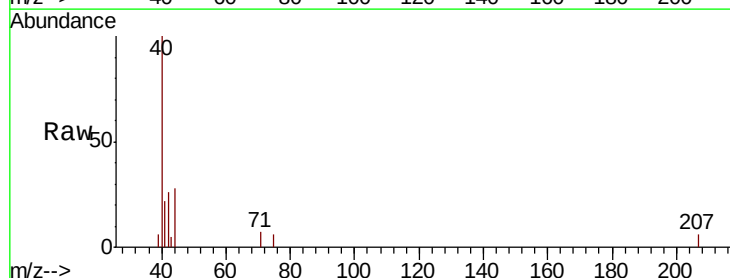
Instrument :
MSVOA_D
ClientSampled :

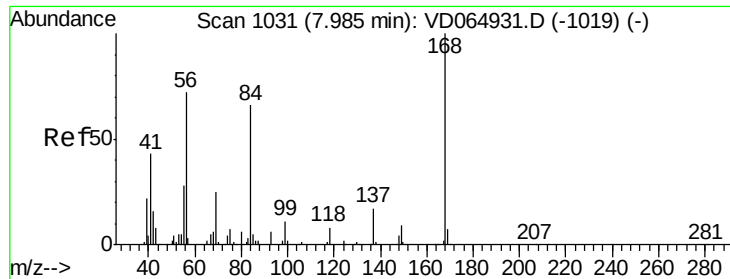
Tot Ion: 43 Resp: 2889
Ion Ratio Lower Upper
43 100
72 14.6 20.6 31.0#



#29
Tetrahydrofuran
Concen: 2.090 ug/l
RT: 7.59 min Scan# 963
Delta R.T. 0.01 min
Lab File: VD065000.D
Acq: 29 Jan 2020 17:25

Tgt Ion: 42 Resp: 1616
Ion Ratio Lower Upper
42 100
72 13.1 34.0 51.0#
71 35.8 31.5 47.3

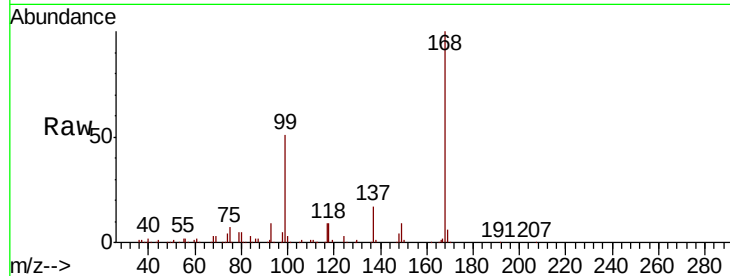




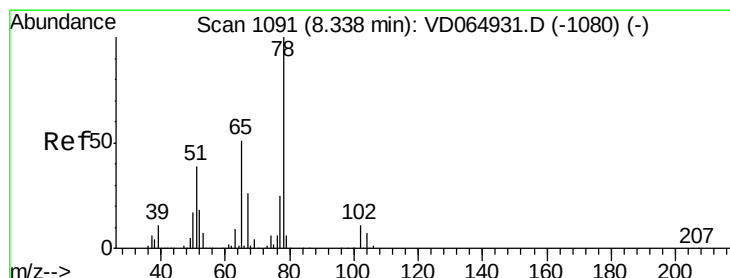
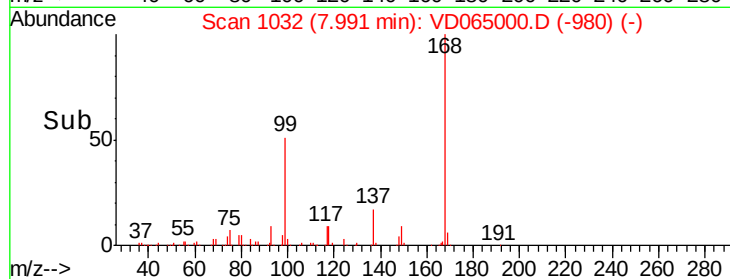
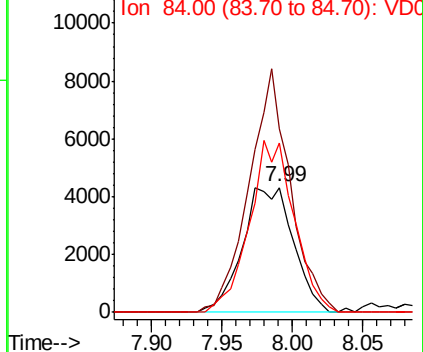
#31
Cyclohexane
Concen: 1.348 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD065000.D
Acq: 29 Jan 2020 17:25

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 10888
Ion Ratio Lower Upper
56 100
69 147.0 27.9 41.9#
84 138.7 72.8 109.2#

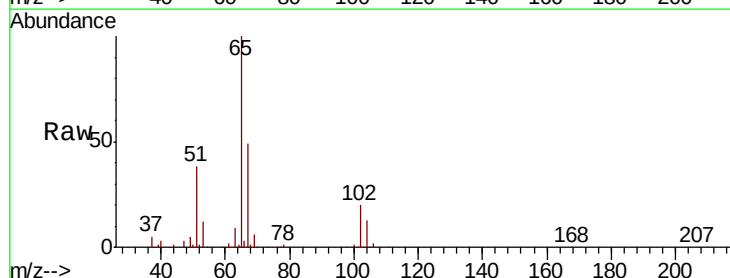


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

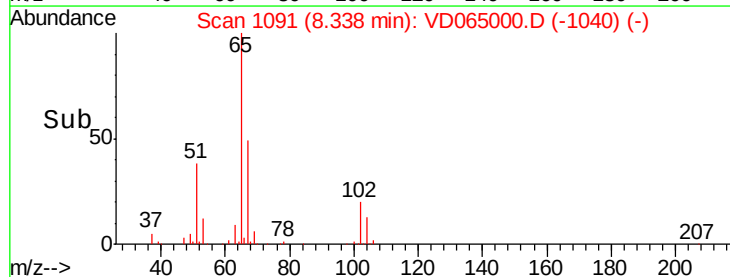
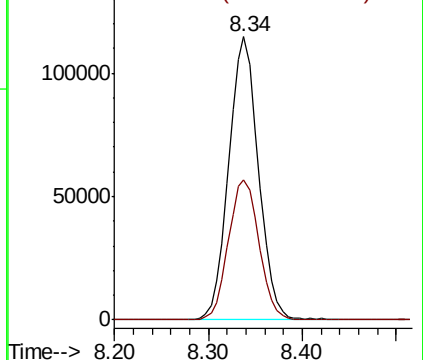


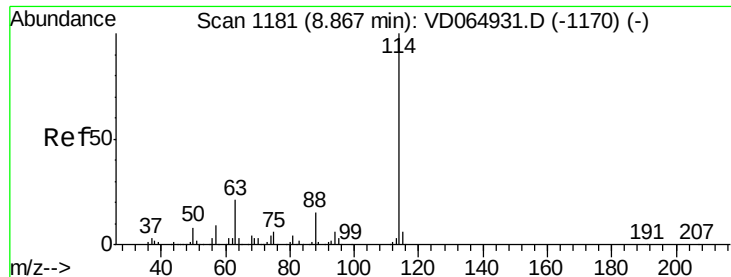
#33
1,2-Dichloroethane-d4
Concen: 54.173 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD065000.D
Acq: 29 Jan 2020 17:25

Tgt Ion: 65 Resp: 251231
Ion Ratio Lower Upper
65 100
67 51.0 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD065000.D

Acq: 29 Jan 2020 17:25

Instrument :

MSVOA_D

ClientSampleId :

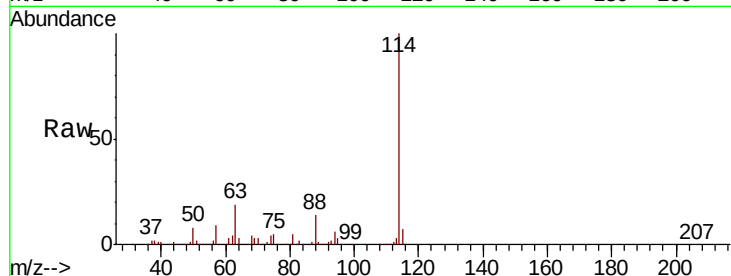
Tot Ion:114 Resp: 789328

Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.0

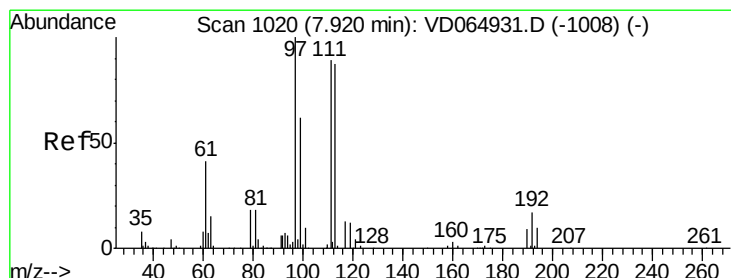
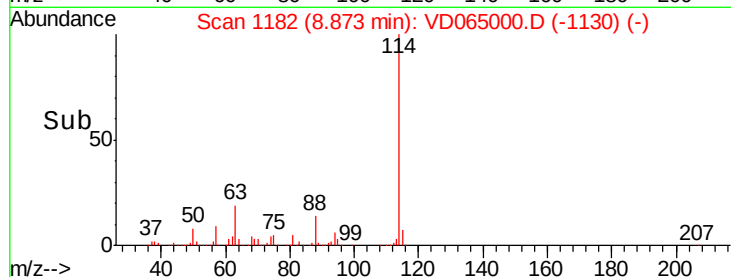
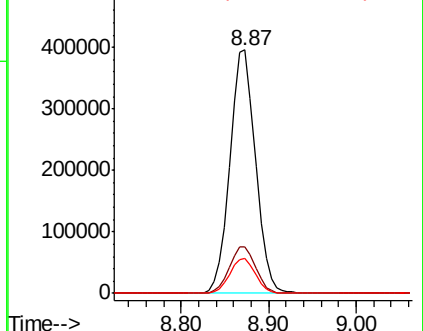
88 14.3 0.0 29.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.237 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065000.D

Acq: 29 Jan 2020 17:25

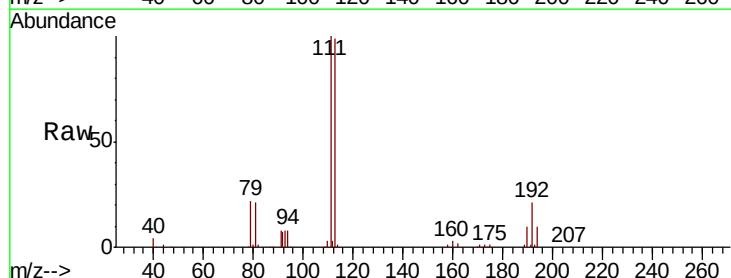
Tgt Ion:113 Resp: 249189

Ion Ratio Lower Upper

113 100

111 100.9 82.4 123.6

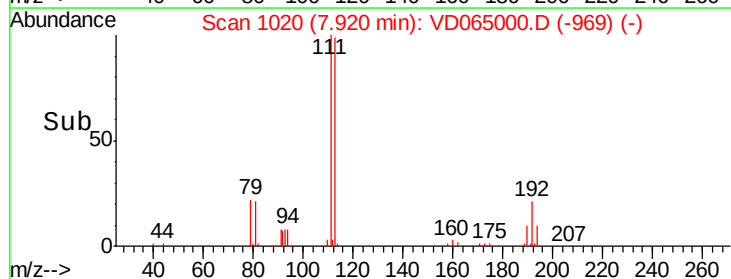
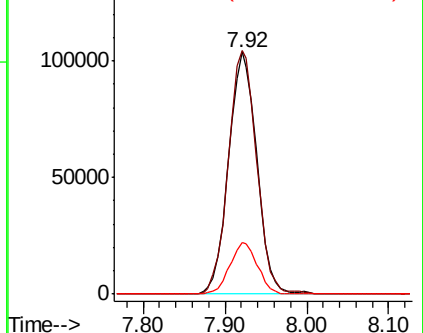
192 20.9 16.9 25.3

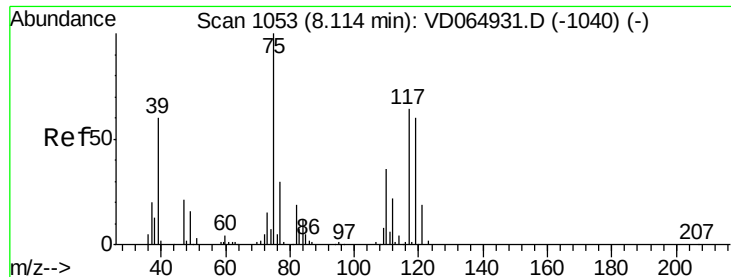


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.649 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD065000.D

Acq: 29 Jan 2020 17:25

Instrument :
MSVOA_D
ClientSampled :

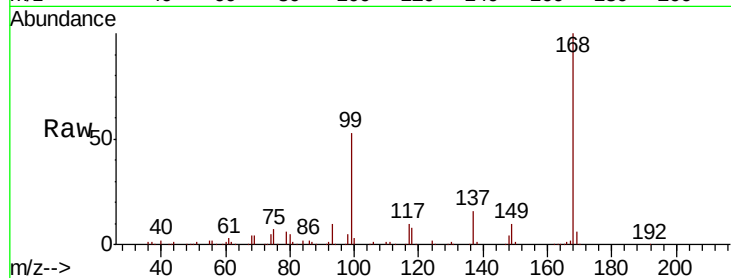
Tot Ion: 75 Resp: 35384

Ion Ratio Lower Upper

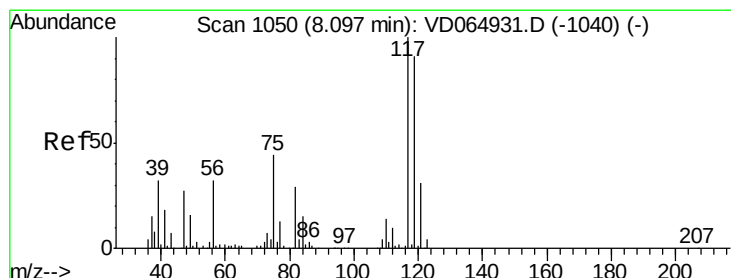
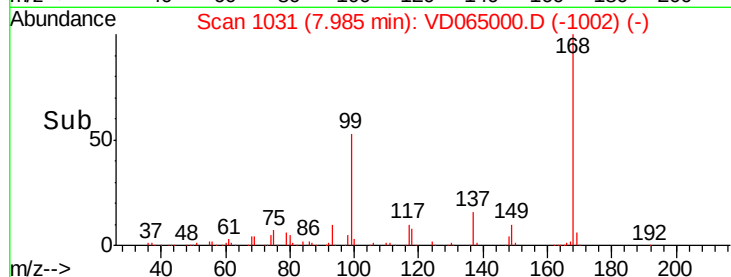
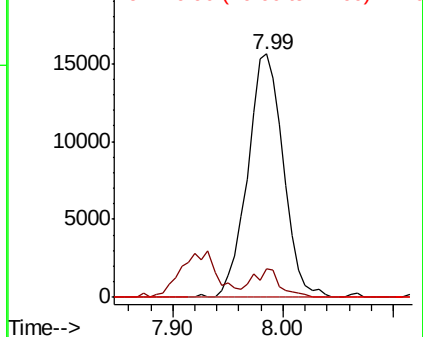
75 100

110 9.0 17.3 52.0#

77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VD
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VD



#38

Carbon Tetrachloride

Concen: 5.650 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065000.D

Acq: 29 Jan 2020 17:25

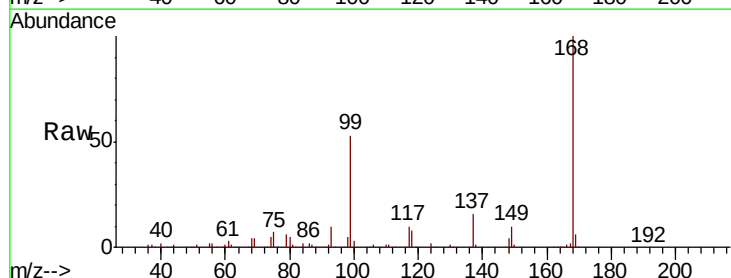
Tgt Ion: 117 Resp: 45453

Ion Ratio Lower Upper

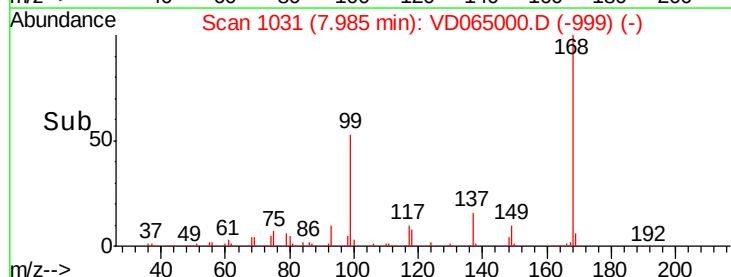
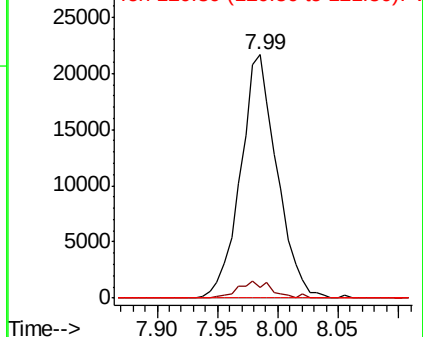
117 100

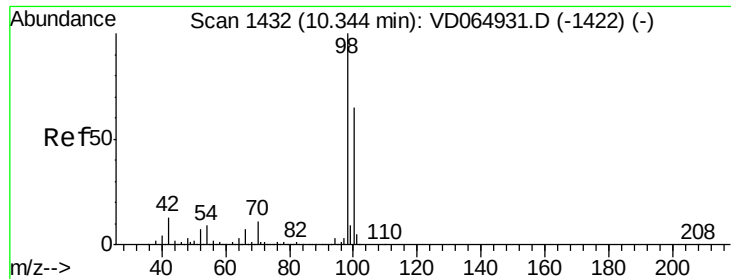
119 4.4 73.2 109.8#

121 0.0 24.4 36.6#



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

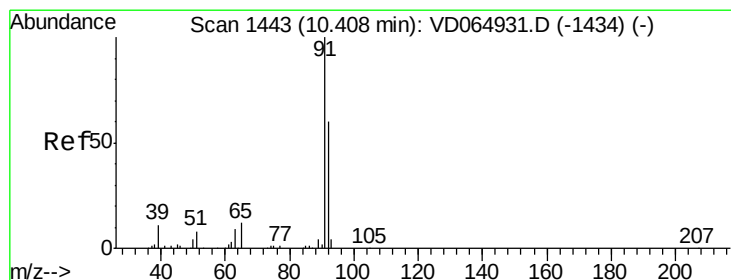
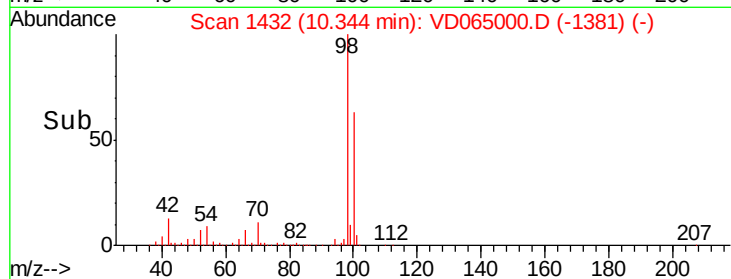
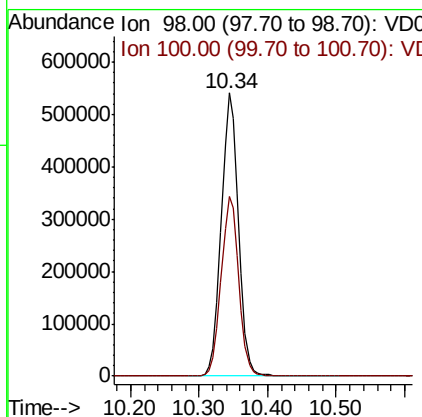
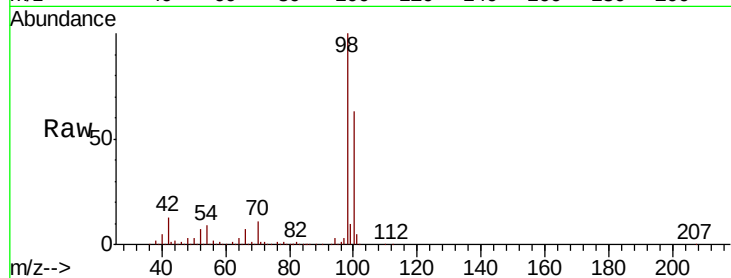




#50
Toluene-d8
Concen: 49.145 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065000.D
Acq: 29 Jan 2020 17:25

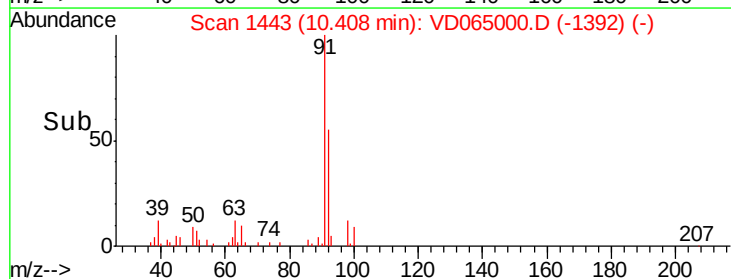
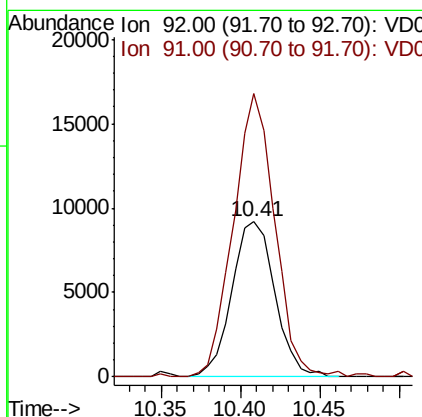
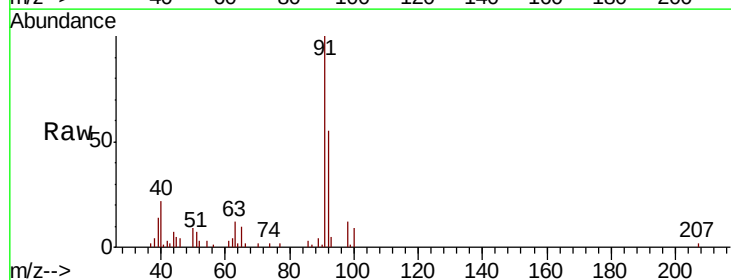
Instrument :
MSVOA_D
ClientSampled :

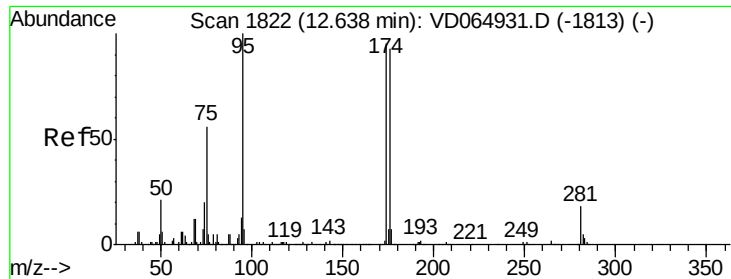
Tot Ion: 98 Resp: 940863
Ion Ratio Lower Upper
98 100
100 64.6 52.3 78.5



#52
Toluene
Concen: 1.281 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.00 min
Lab File: VD065000.D
Acq: 29 Jan 2020 17:25

Tgt Ion: 92 Resp: 17316
Ion Ratio Lower Upper
92 100
91 176.2 136.8 205.2





#62

4-Bromofluorobenzene

Concen: 51.278 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD065000.D

Acq: 29 Jan 2020 17:25

Instrument :

MSVOA_D

ClientSampleId :

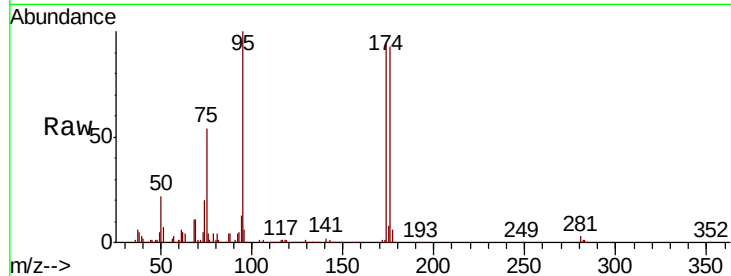
Tot Ion: 95 Resp: 300421

Ion Ratio Lower Upper

95 100

174 91.5 0.0 186.8

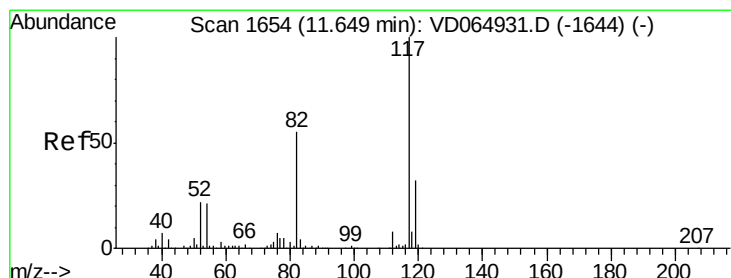
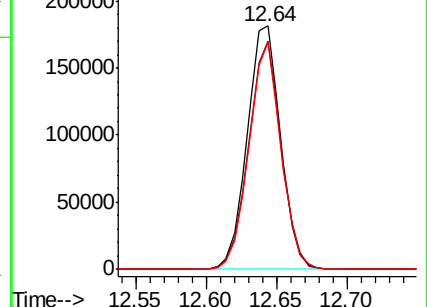
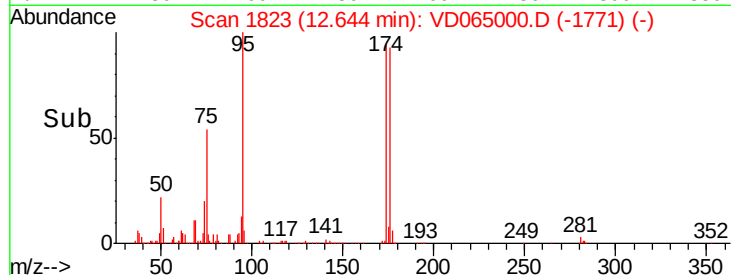
176 89.1 0.0 183.4



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: VD065000.D

Acq: 29 Jan 2020 17:25

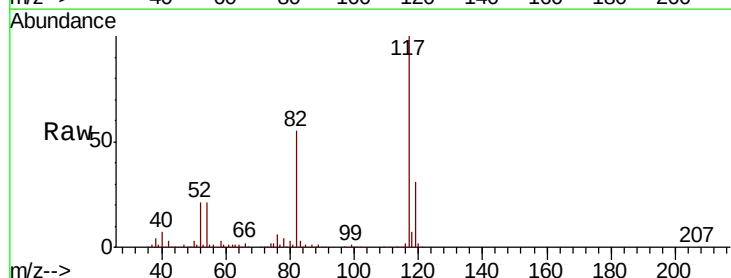
Tgt Ion: 117 Resp: 743067

Ion Ratio Lower Upper

117 100

82 54.6 43.6 65.4

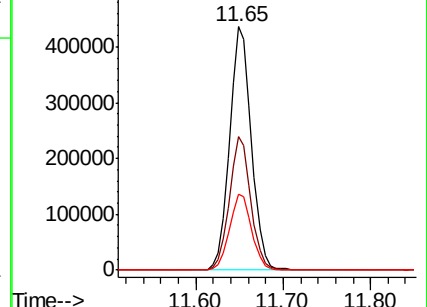
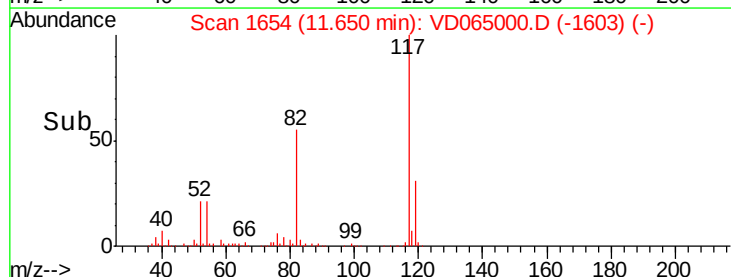
119 31.1 25.2 37.8

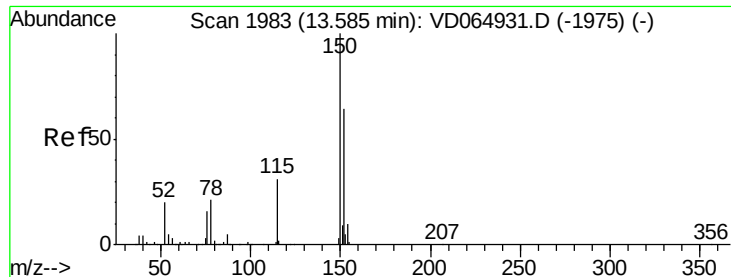


Abundance Ion 116.90 (116.60 to 117.60): V

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. 0.00 min

Lab File: VD065000.D

Acq: 29 Jan 2020 17:25

Instrument :

MSVOA_D

ClientSampleId :

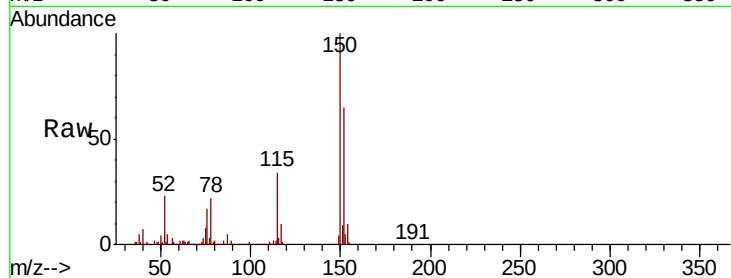
Tot Ion:152 Resp: 322655

Ion Ratio Lower Upper

152 100

115 54.0 28.1 84.4

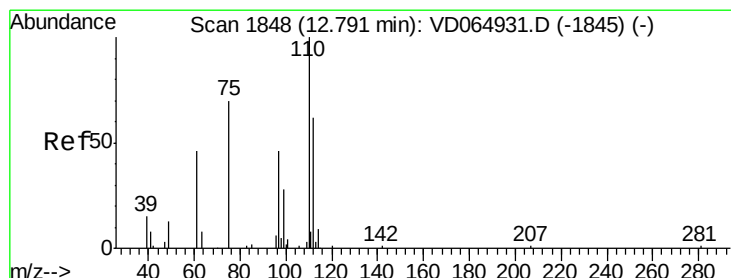
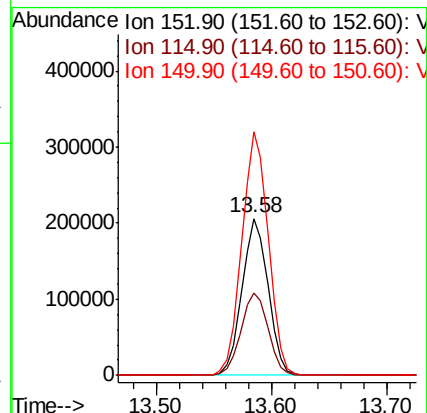
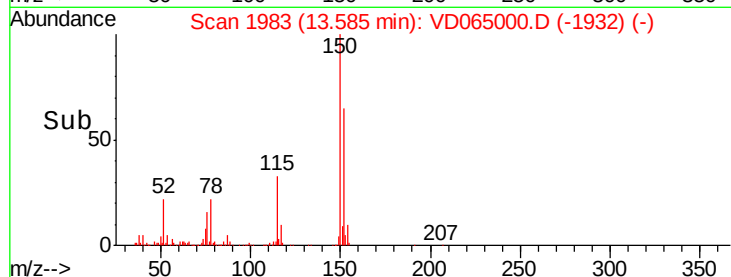
150 157.1 0.0 350.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 61.597 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065000.D

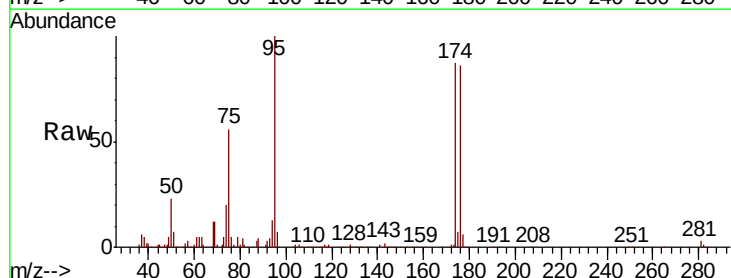
Acq: 29 Jan 2020 17:25

Tgt Ion: 75 Resp: 164961

Ion Ratio Lower Upper

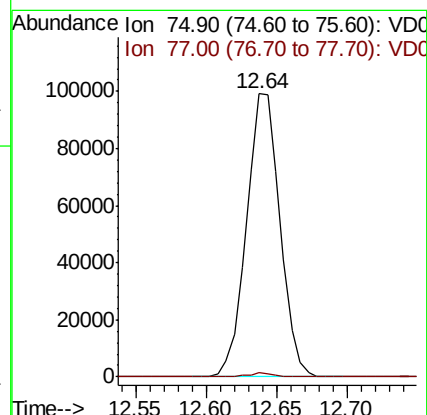
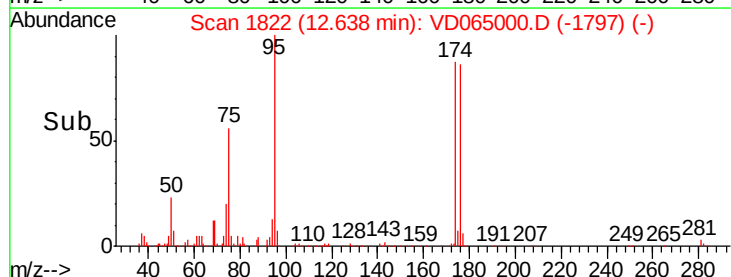
75 100

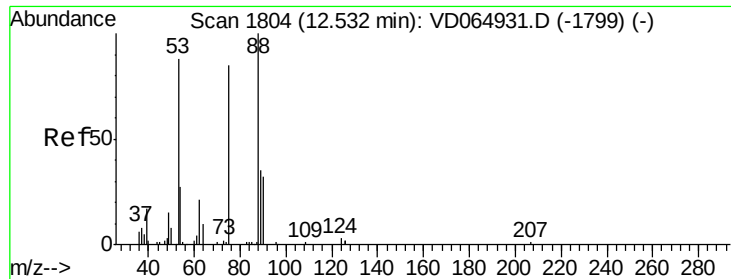
77 1.2 0.0 0.0#



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: 131.524 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065000.D

Acq: 29 Jan 2020 17:25

Instrument :

MSVOA_D

ClientSampled :

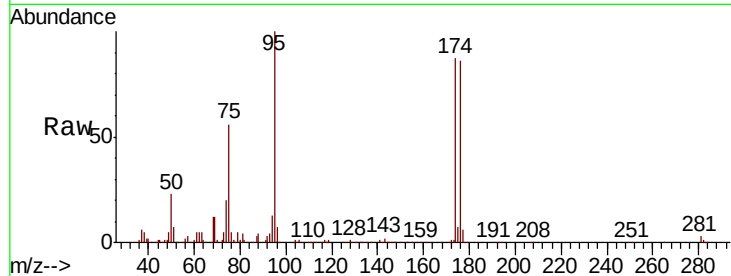
Tot Ion: 75 Resp: 164961

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.4#

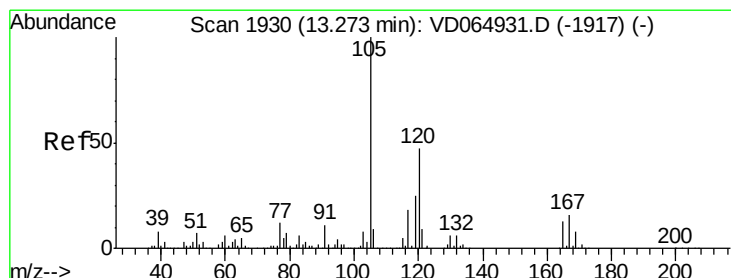
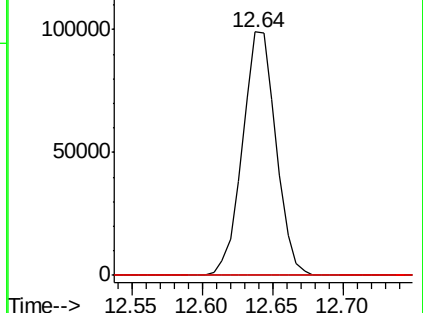
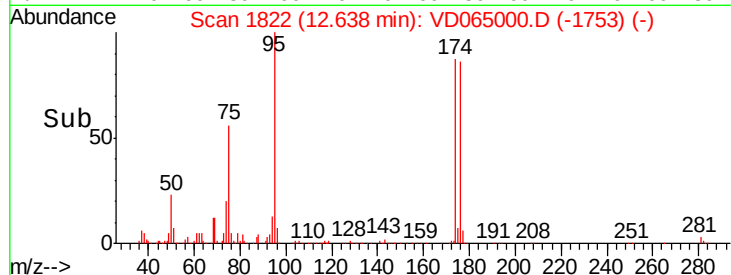
89 0.0 36.2 54.4#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.075 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.01 min

Lab File: VD065000.D

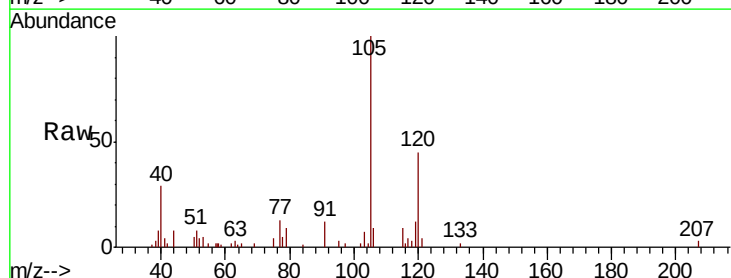
Acq: 29 Jan 2020 17:25

Tgt Ion: 105 Resp: 19687

Ion Ratio Lower Upper

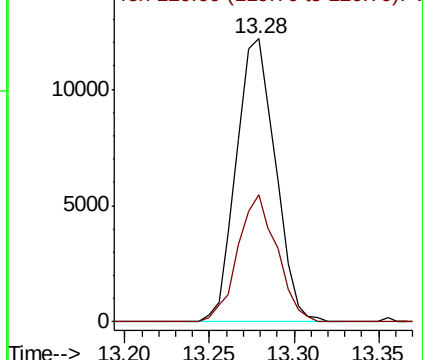
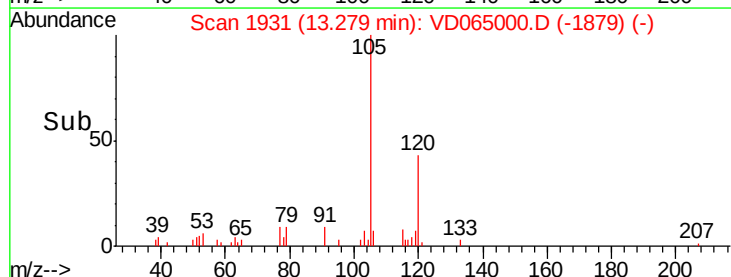
105 100

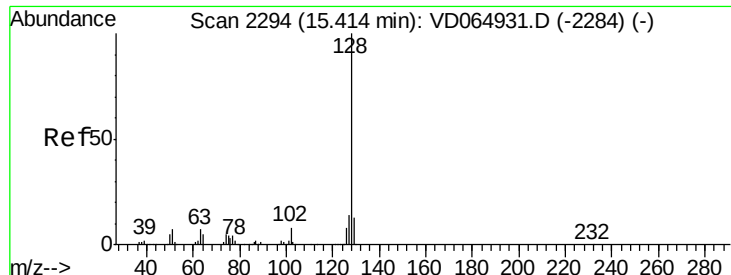
120 44.8 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

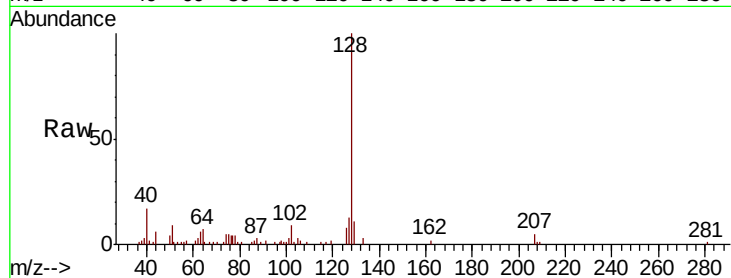




#95
 Naphthalene
 Concen: 4.417 ug/l
 RT: 15.41 min Scan# 2294
 Delta R.T. 0.00 min
 Lab File: VD065000.D
 Acq: 29 Jan 2020 17:25

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.6	15.8
129	12.3	9.3	13.9



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

