

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101519\
 Data File : VD063971.D
 Acq On : 15 Oct 2019 14:51
 Operator : VA/SY
 Sample : K5355-05RE
 Misc : 6.18G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-32

Quant Time: Oct 16 02:15:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	173707	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	317328	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	321287	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	152733	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	101317	59.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.82%	
35) Dibromofluoromethane	7.92	113	99151	51.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.26%	
50) Toluene-d8	10.34	98	415783	52.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.64%	
62) 4-Bromofluorobenzene	12.64	95	128717	47.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.12%	

Target Compounds

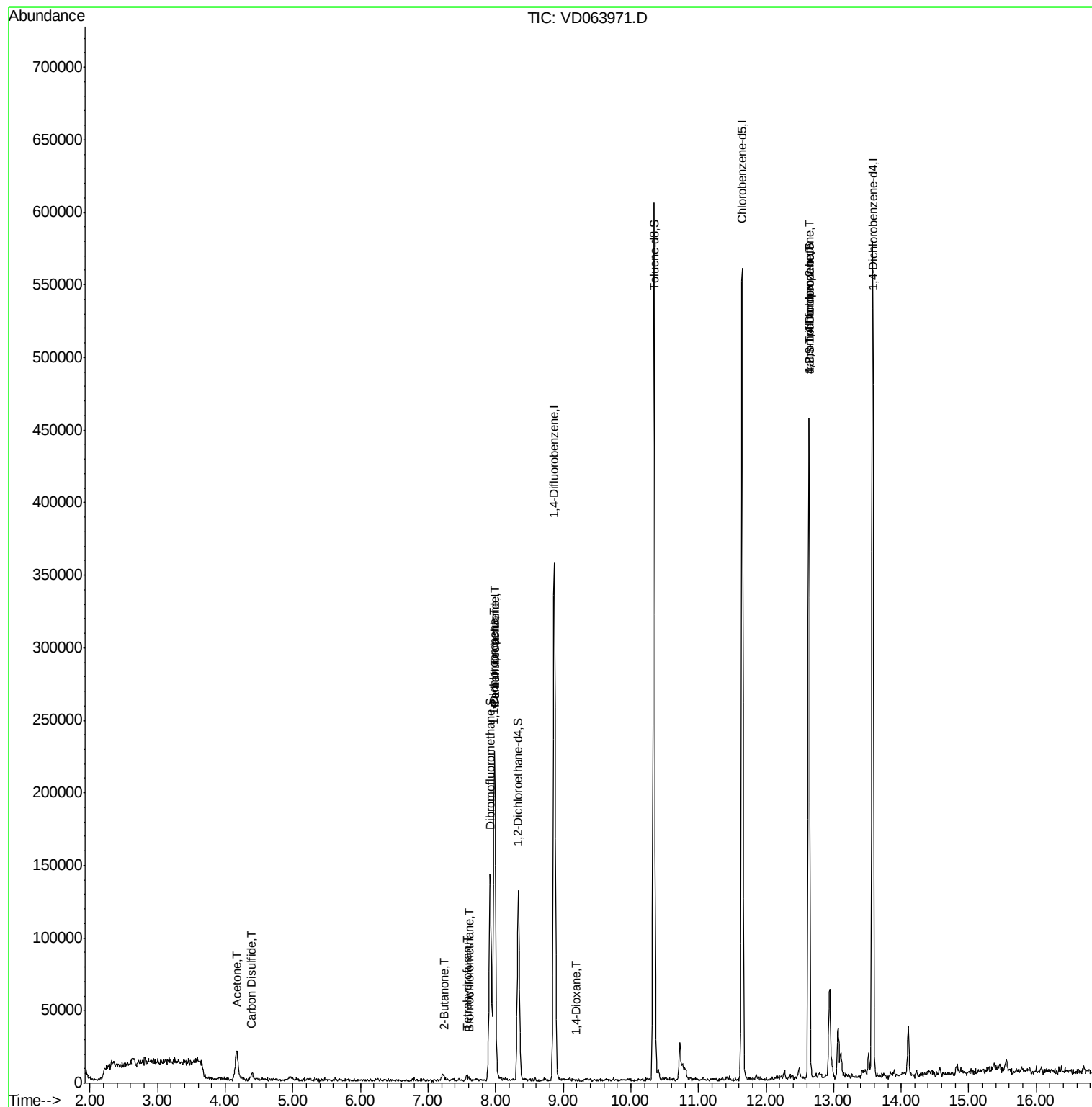
						Qvalue
3) Chloromethane	2.20	50	708	Below Cal	#	40
11) Tert butyl alcohol	5.26	59	797	Below Cal	#	71
16) Acetone	4.17	43	36193	82.200	ug/l	94
17) Carbon Disulfide	4.39	76	8539	1.614	ug/l #	65
20) Methylene Chloride	4.95	84	842	Below Cal	#	77
25) 2-Butanone	7.24	43	1323	2.535	ug/l #	85
28) Bromochloromethane	7.61	49	70	1.922	ug/l #	10
29) Tetrahydrofuran	7.57	42	2111	6.931	ug/l	96
31) Cyclohexane	7.99	56	4170	Below Cal	#	44
36) 1,1-Dichloropropene	7.97	75	13522	4.660	ug/l #	42
37) Ethyl Acetate	7.30	43	66	Below Cal	#	68
38) Carbon Tetrachloride	7.99	117	15347	5.234	ug/l #	22
49) 1,4-Dioxane	9.19	88	61	3.856	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	72806	71.172	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	72806	125.945	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.35	75	63	Below Cal	#	1

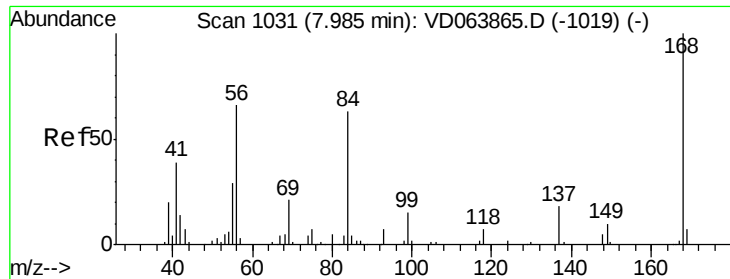
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 05 03:51:17 2019
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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: VD063971.D

Acq: 15 Oct 2019 14:51

Instrument :

MSVOA_D

ClientSampleId :

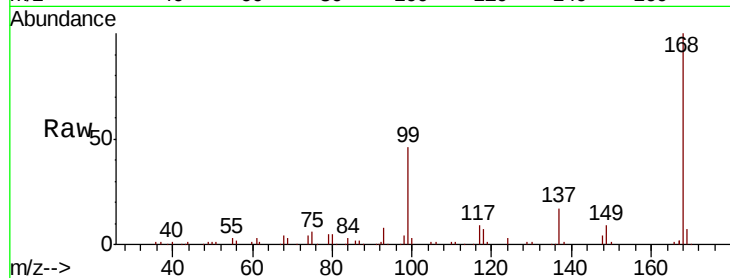
VOC-32

Tot Ion:168 Resp: 173707

Ion Ratio Lower Upper

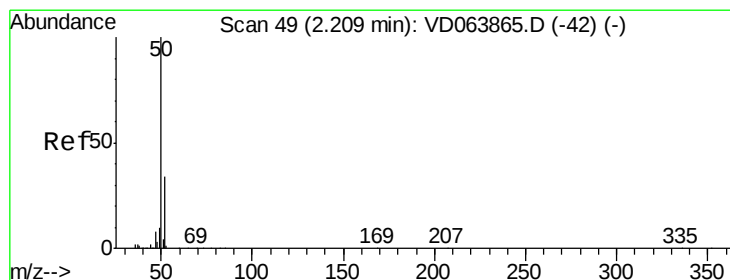
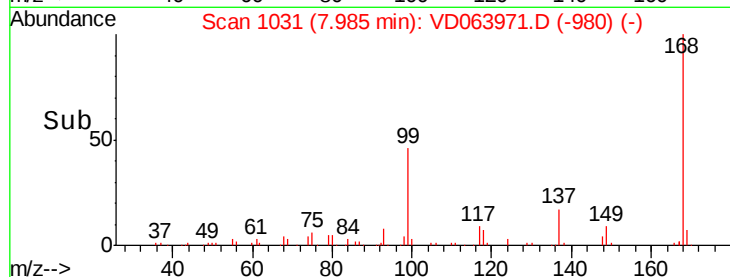
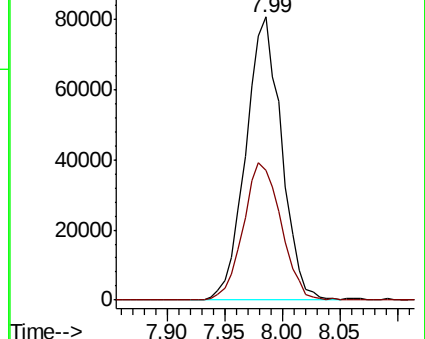
168 100

99 45.7 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 47

Delta R.T. -0.01 min

Lab File: VD063971.D

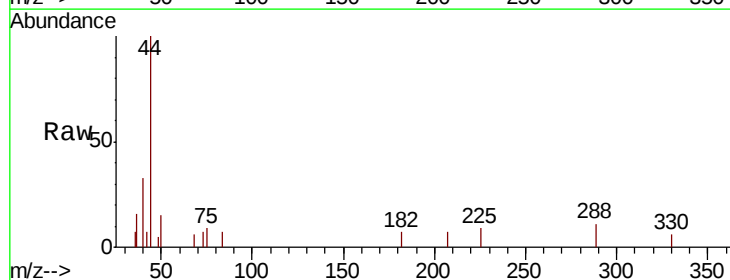
Acq: 15 Oct 2019 14:51

Tgt Ion: 50 Resp: 708

Ion Ratio Lower Upper

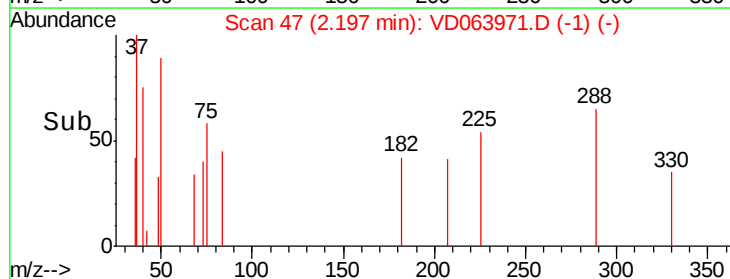
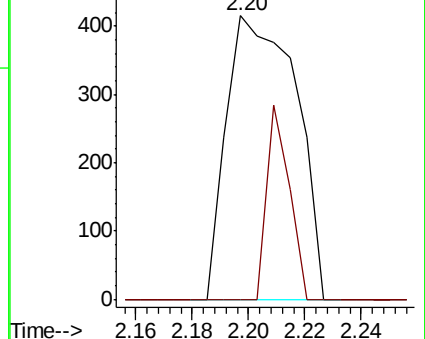
50 100

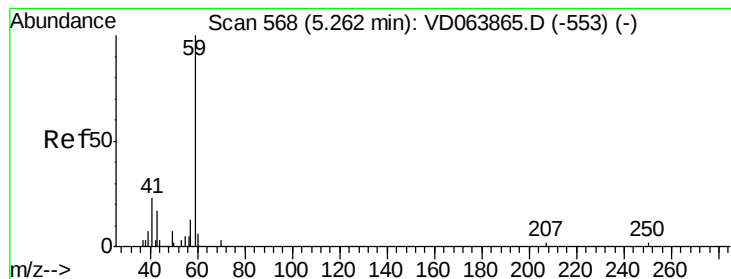
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



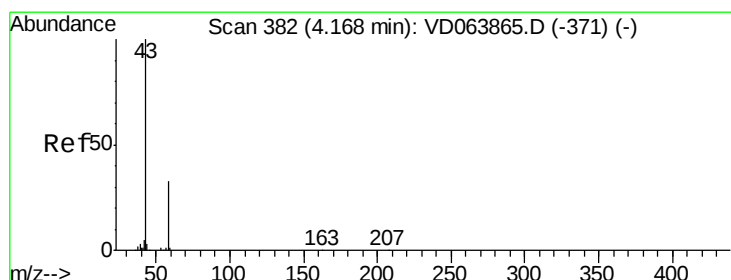
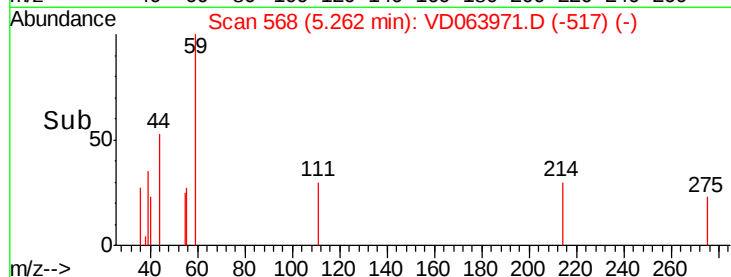
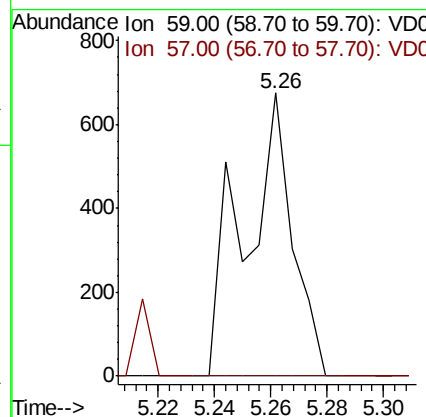
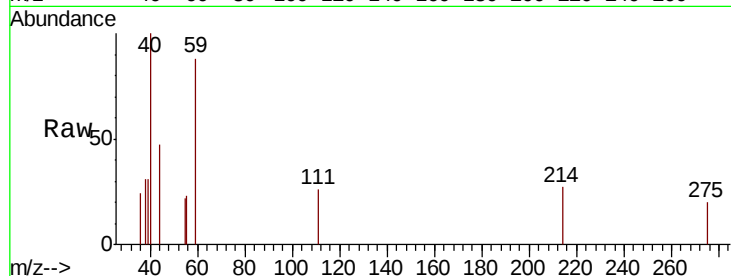


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.26 min Scan# 568
 Delta R.T. 0.00 min
 Lab File: VD063971.D
 Acq: 15 Oct 2019 14:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-32

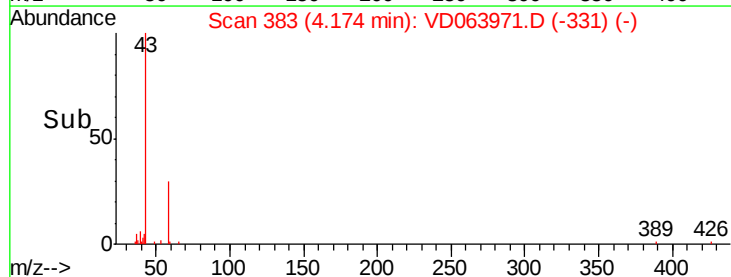
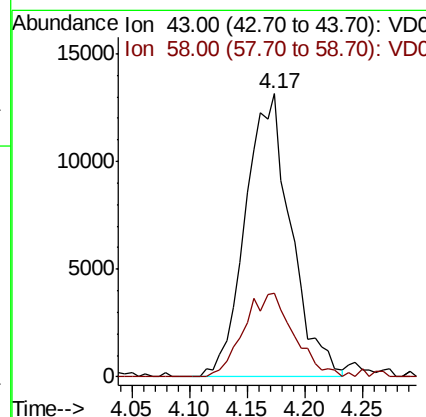
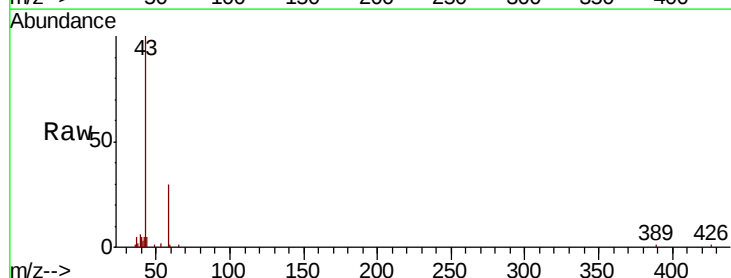
Tot Ion: 59 Resp: 797
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

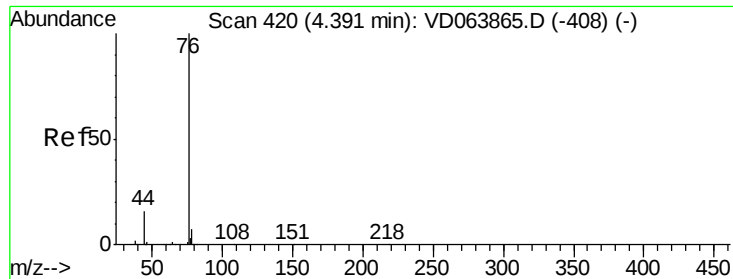


#16

Acetone
 Concen: 82.200 ug/l
 RT: 4.17 min Scan# 383
 Delta R.T. 0.01 min
 Lab File: VD063971.D
 Acq: 15 Oct 2019 14:51

Tgt Ion: 43 Resp: 36193
 Ion Ratio Lower Upper
 43 100
 58 29.7 26.2 39.4





#17

Carbon Disulfide

Concen: 1.614 ug/l

RT: 4.39 min Scan# 420

Delta R.T. 0.00 min

Lab File: VD063971.D

Acq: 15 Oct 2019 14:51

Instrument :

MSVOA_D

ClientSampleId :

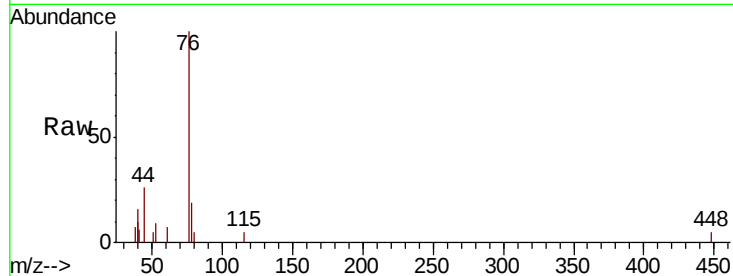
VOC-32

Tot Ion: 76 Resp: 8539

Ion Ratio Lower Upper

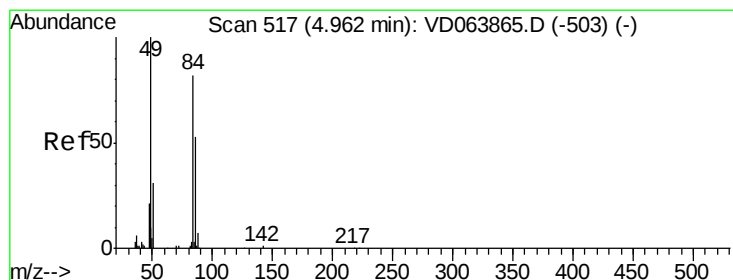
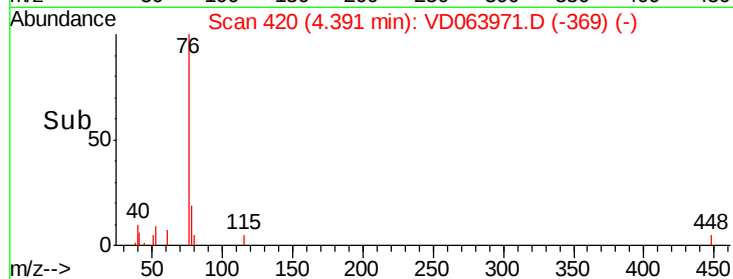
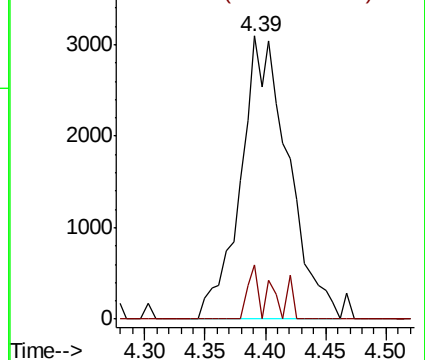
76 100

78 19.3 5.8 8.8#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.95 min Scan# 515

Delta R.T. -0.01 min

Lab File: VD063971.D

Acq: 15 Oct 2019 14:51

Tgt Ion: 84 Resp: 842

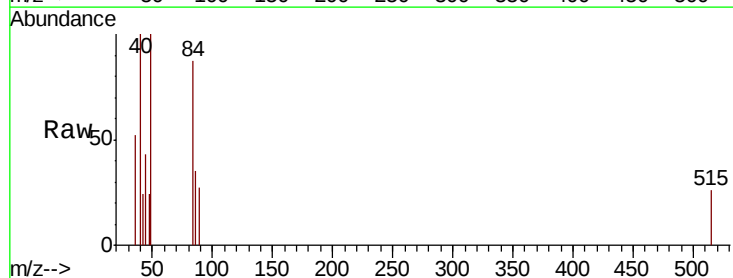
Ion Ratio Lower Upper

84 100

49 115.0 97.3 145.9

51 0.0 30.1 45.1#

86 39.9 51.4 77.2#

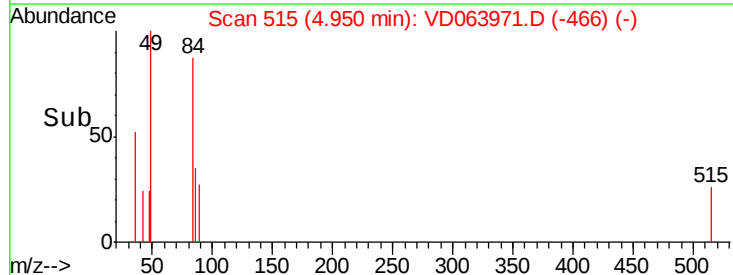
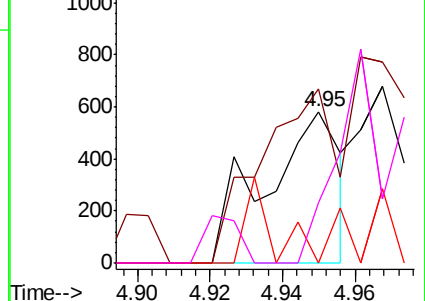


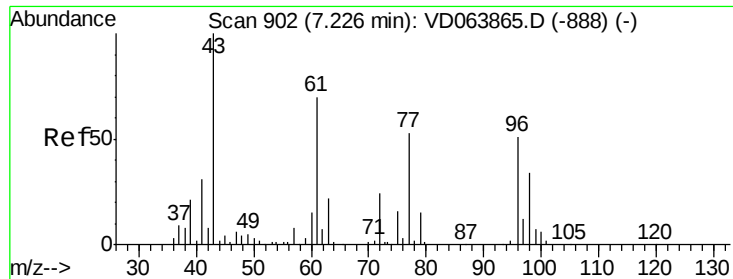
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

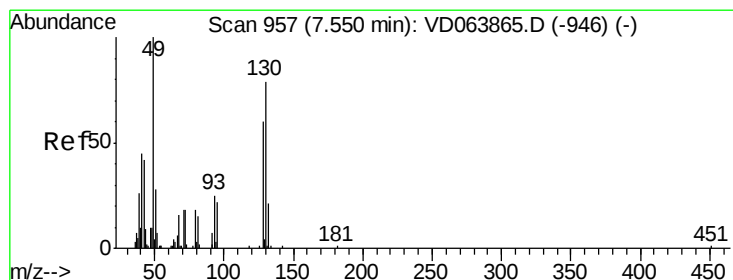
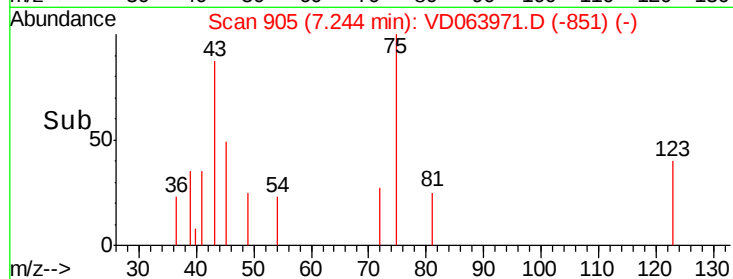
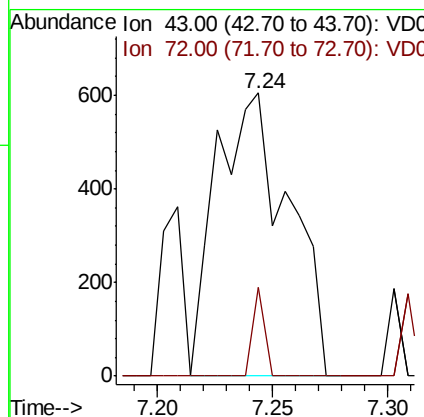
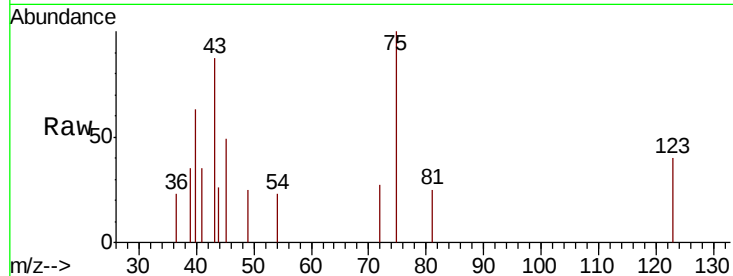




#25
2-Butanone
Concen: 2.535 ug/l
RT: 7.24 min Scan# 905
Delta R.T. 0.02 min
Lab File: VD063971.D
Acq: 15 Oct 2019 14:51

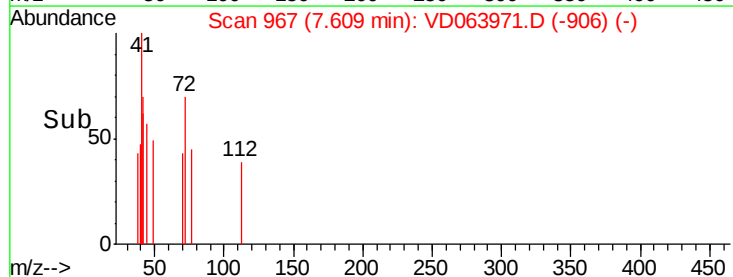
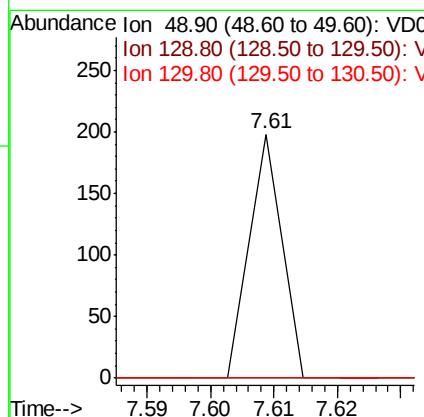
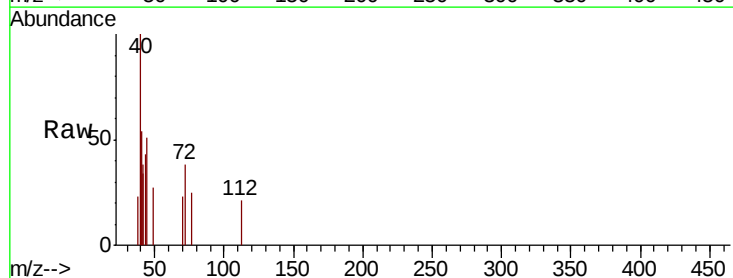
Instrument :
MSVOA_D
ClientSampleId :
VOC-32

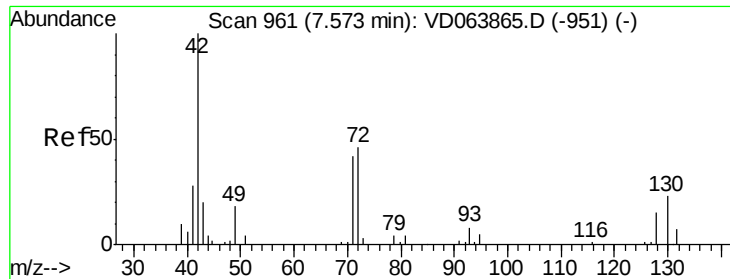
Tot Ion: 43 Resp: 1323
Ion Ratio Lower Upper
43 100
72 31.4 19.2 28.8#



#28
Bromochloromethane
Concen: 1.922 ug/l
RT: 7.61 min Scan# 967
Delta R.T. 0.06 min
Lab File: VD063971.D
Acq: 15 Oct 2019 14:51

Tgt Ion: 49 Resp: 70
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 0.0 66.8 100.2#





#29

Tetrahydrofuran

Concen: 6.931 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.00 min

Lab File: VD063971.D

Acq: 15 Oct 2019 14:51

Instrument :

MSVOA_D

ClientSampleId :

VOC-32

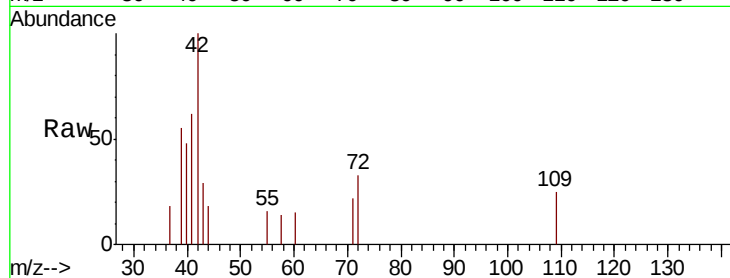
Tot Ion: 42 Resp: 2111

Ion Ratio Lower Upper

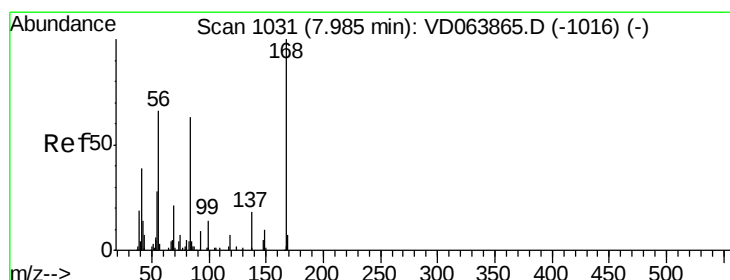
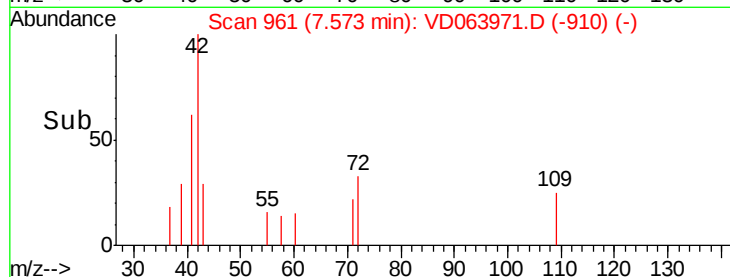
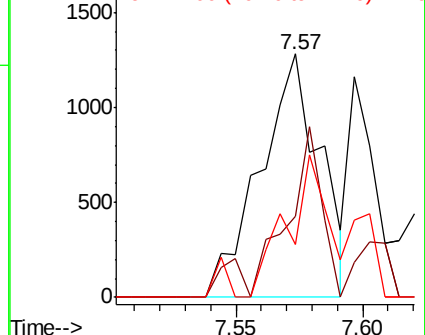
42 100

72 45.8 37.6 56.4

71 40.0 35.0 52.6



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD063971.D

Acq: 15 Oct 2019 14:51

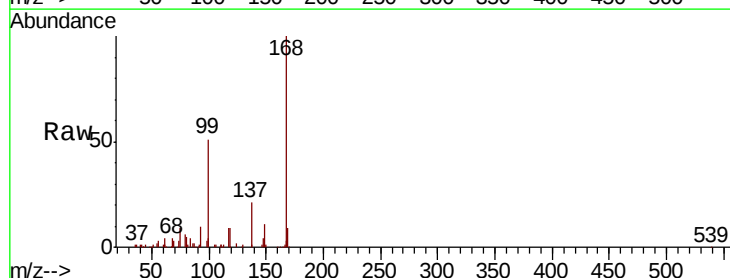
Tgt Ion: 56 Resp: 4170

Ion Ratio Lower Upper

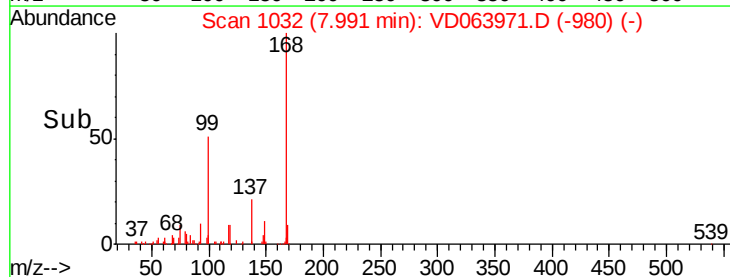
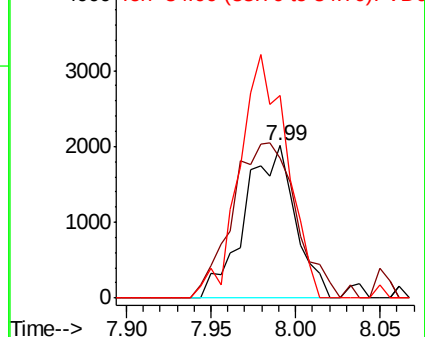
56 100

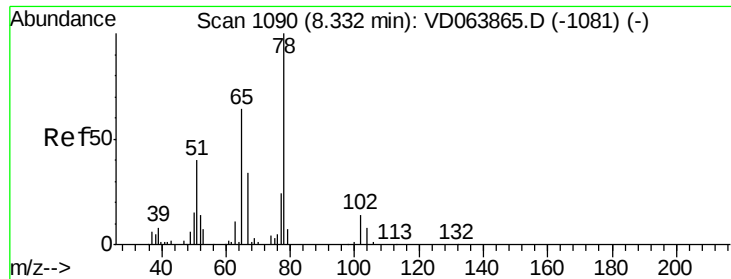
69 91.4 25.0 37.4#

84 132.7 76.3 114.5#



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: 59.909 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD063971.D

Acq: 15 Oct 2019 14:51

Instrument :

MSVOA_D

ClientSampleId :

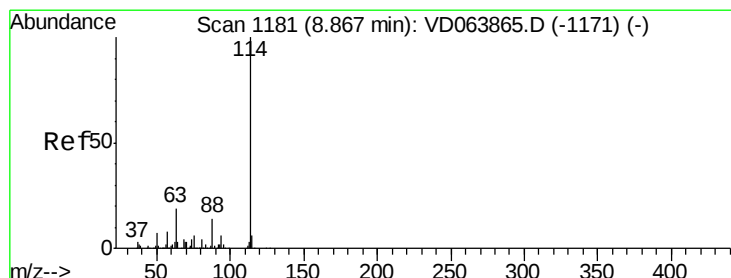
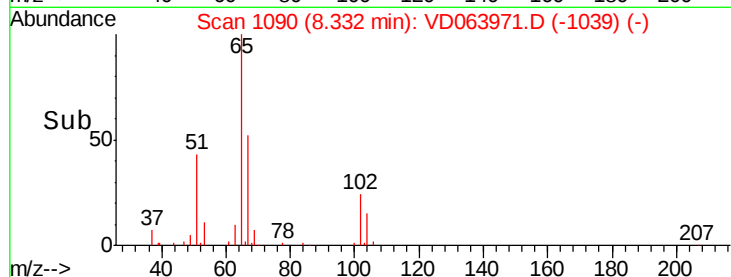
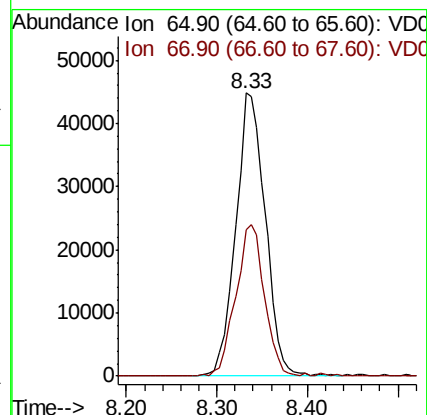
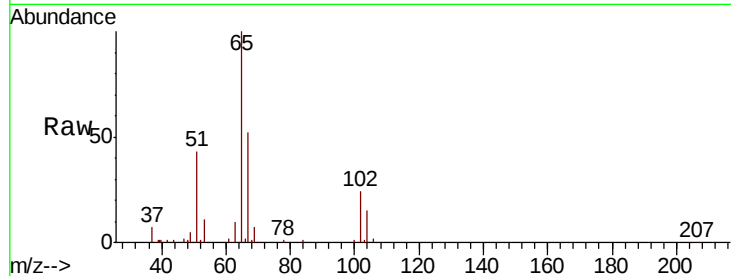
VOC-32

Tot Ion: 65 Resp: 101317

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD063971.D

Acq: 15 Oct 2019 14:51

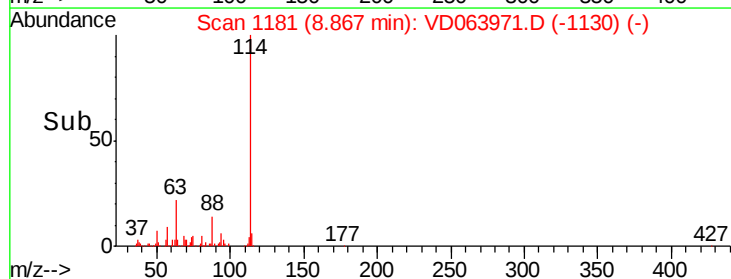
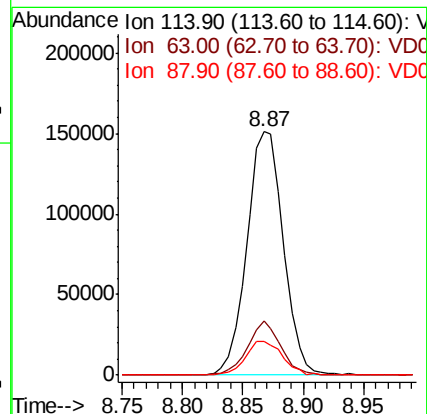
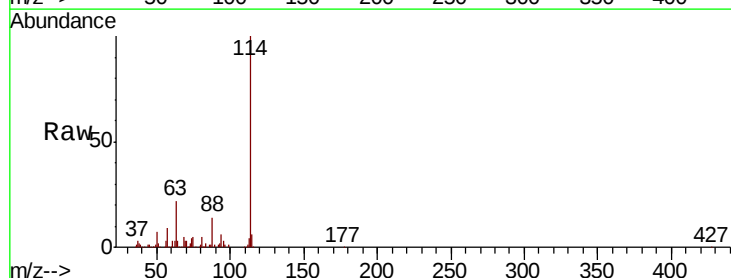
Tgt Ion: 114 Resp: 317328

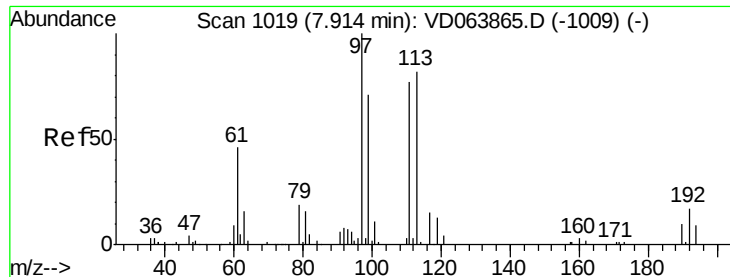
Ion Ratio Lower Upper

114 100

63 22.2 0.0 38.4

88 14.0 0.0 27.4

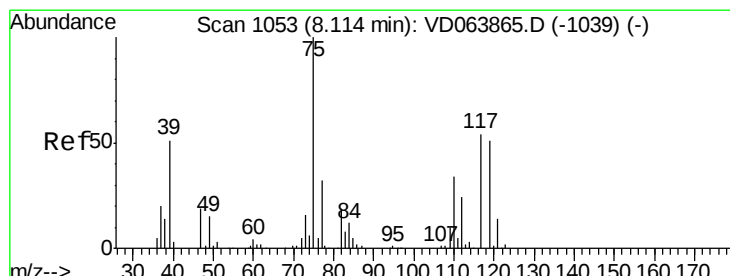
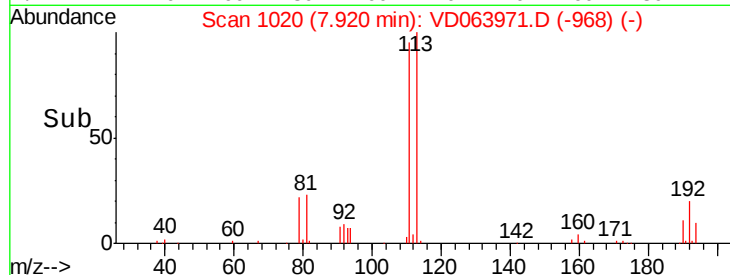
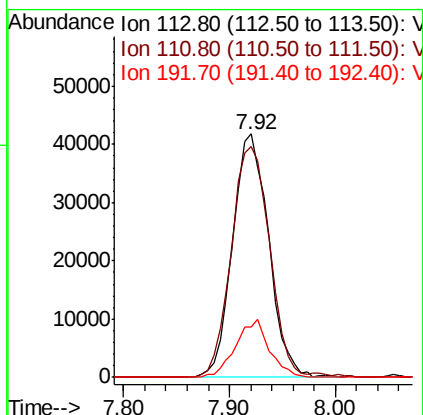
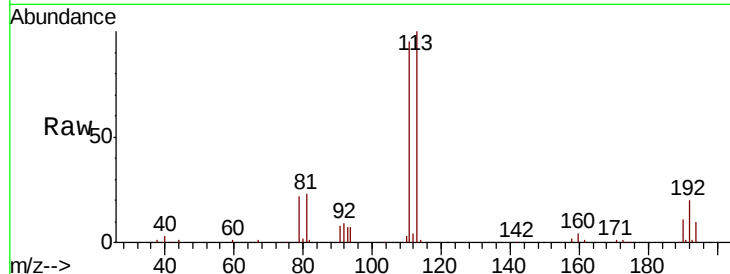




#35
 Dibromofluoromethane
 Concen: 51.127 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD063971.D
 Acq: 15 Oct 2019 14:51

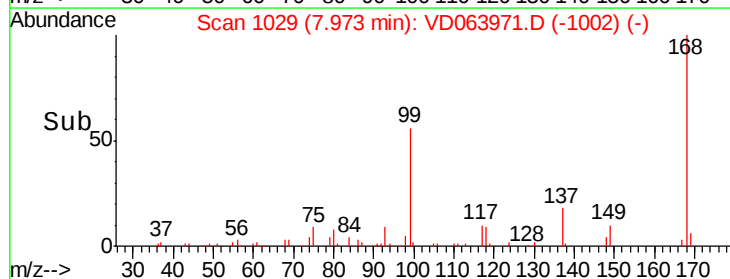
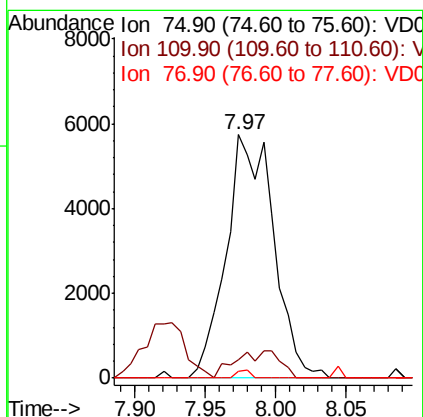
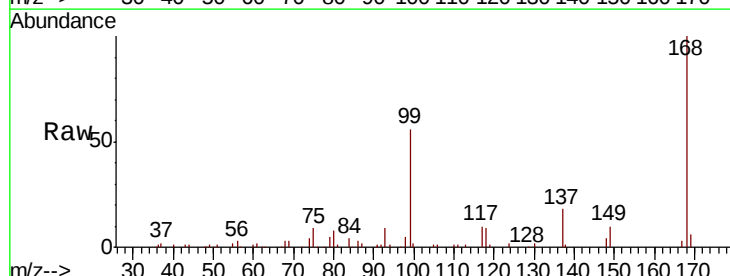
Instrument :
 MSVOA_D
 ClientSampled :
 VOC-32

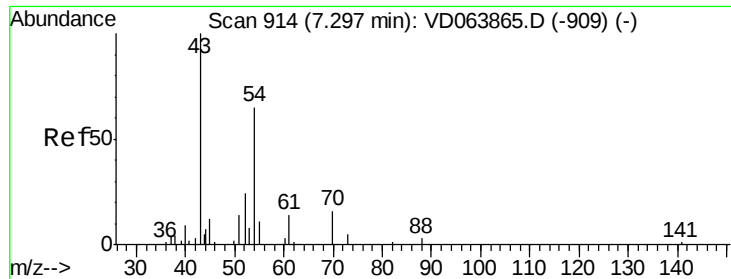
Tot Ion:113 Resp: 99151
 Ion Ratio Lower Upper
 113 100
 111 100.1 82.6 123.8
 192 22.0 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.660 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD063971.D
 Acq: 15 Oct 2019 14:51

Tgt Ion: 75 Resp: 13522
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.4 52.3#
 77 0.9 25.4 38.0#

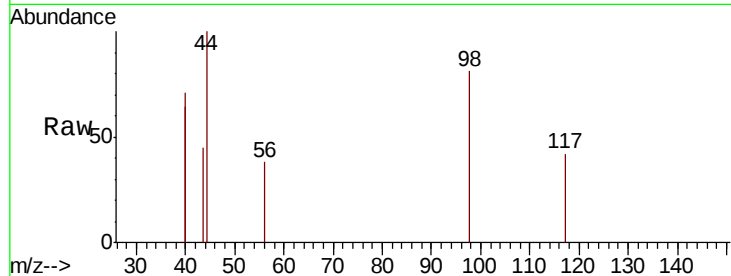




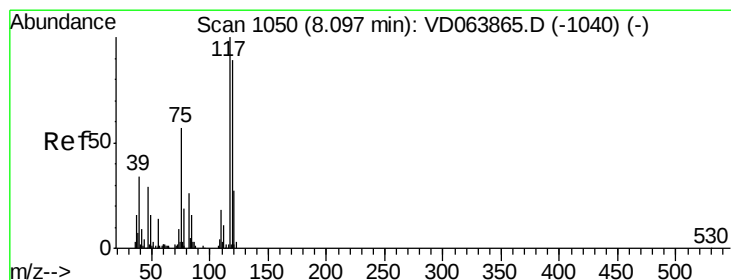
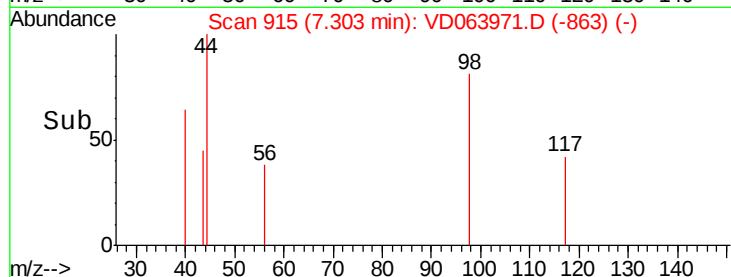
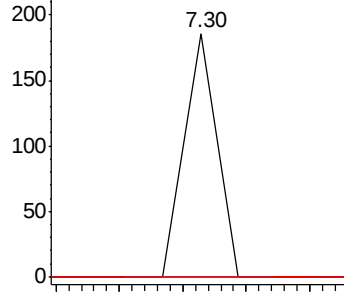
#37
Ethyl Acetate
Concen: Below Cal
RT: 7.30 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD063971.D
Acq: 15 Oct 2019 14:51

Instrument :
MSVOA_D
ClientSampleId :
VOC-32

Tot Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 8.2 12.4#

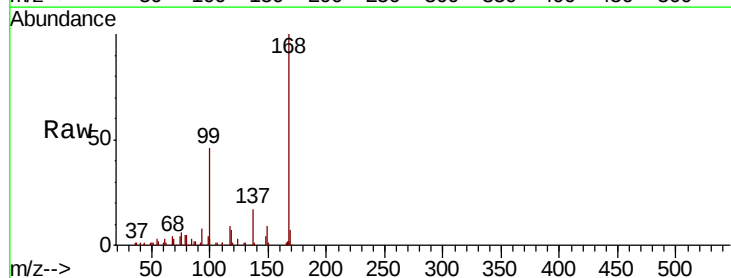


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

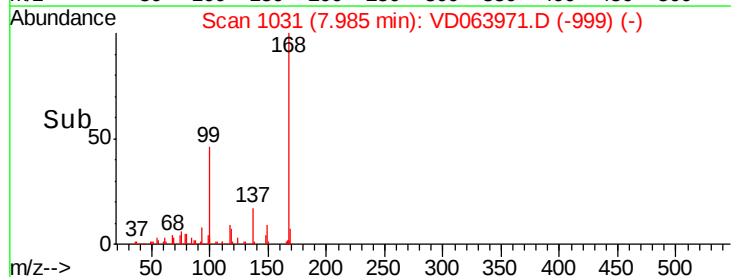
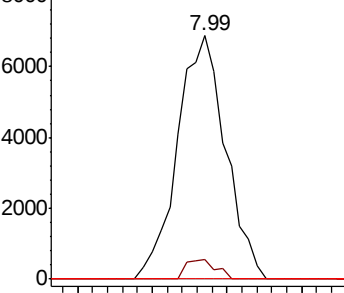


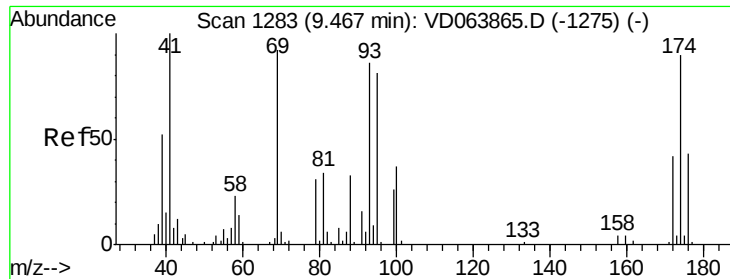
#38
Carbon Tetrachloride
Concen: 5.234 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD063971.D
Acq: 15 Oct 2019 14:51

Tgt Ion: 117 Resp: 15347
Ion Ratio Lower Upper
117 100
119 7.9 70.8 106.2#
121 0.0 21.4 32.0#



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

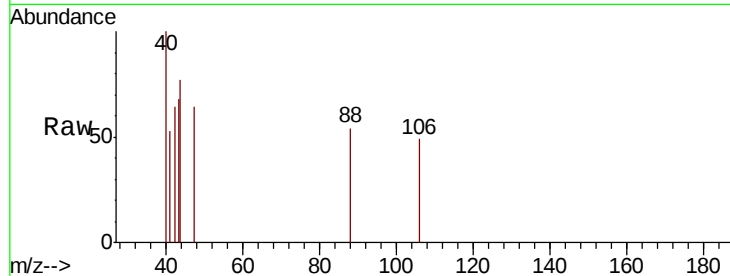




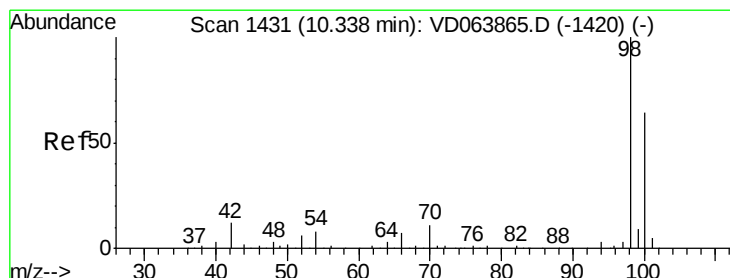
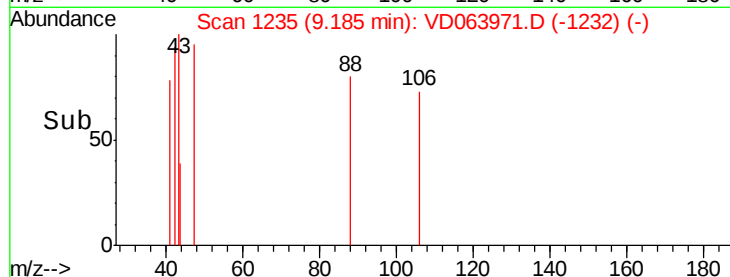
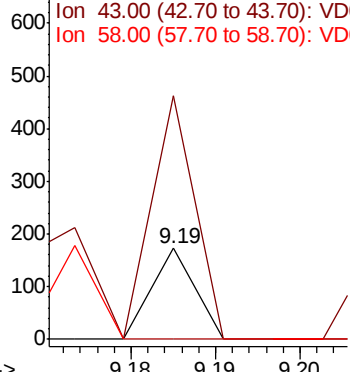
#49
1,4-Dioxane
Concen: 3.856 ug/l
RT: 9.19 min Scan# 1235
Delta R.T. -0.28 min
Lab File: VD063971.D
Acq: 15 Oct 2019 14:51

Instrument :
MSVOA_D
ClientSampleId :
VOC-32

Tot Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 267.2 27.6 41.4#
58 0.0 54.1 81.1#

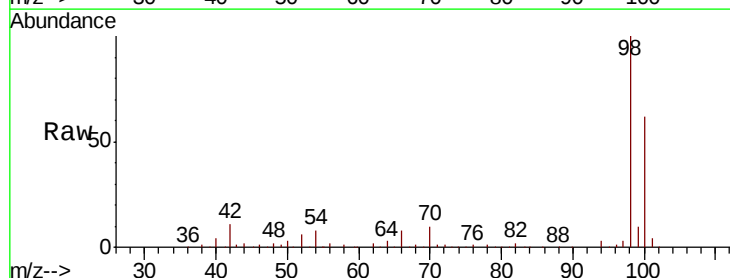


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

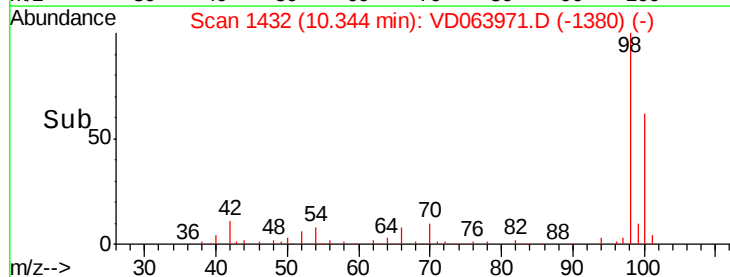
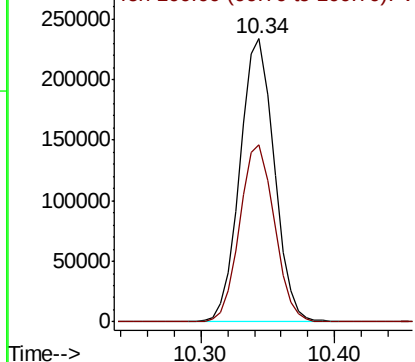


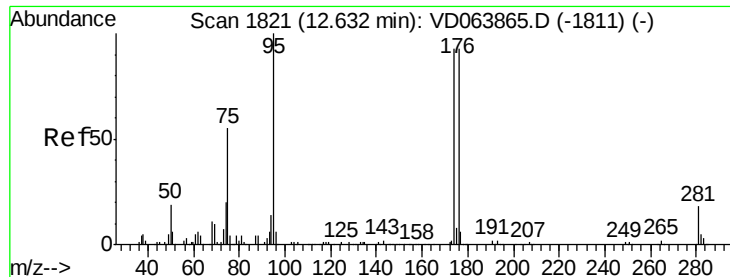
#50
Toluene-d8
Concen: 52.823 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD063971.D
Acq: 15 Oct 2019 14:51

Tgt Ion: 98 Resp: 415783
Ion Ratio Lower Upper
98 100
100 63.6 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#62

4-Bromofluorobenzene

Concen: 47.058 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD063971.D

Acq: 15 Oct 2019 14:51

Instrument :

MSVOA_D

ClientSampleId :

VOC-32

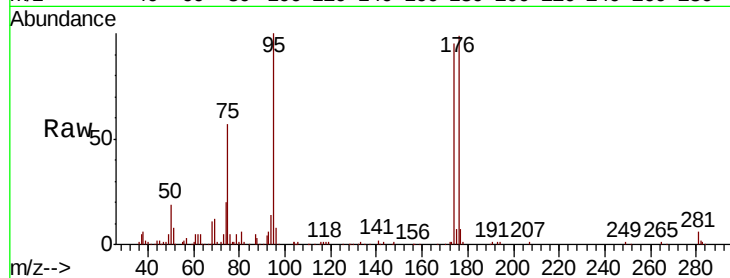
Tot Ion: 95 Resp: 128717

Ion Ratio Lower Upper

95 100

174 94.0 0.0 186.4

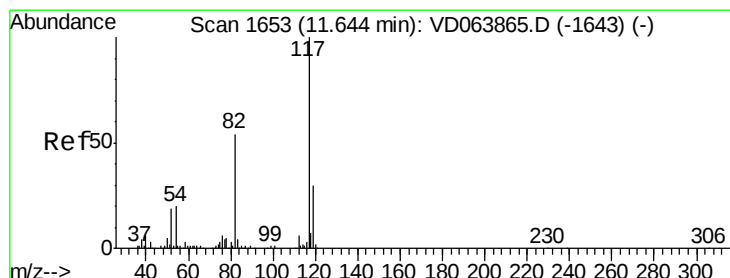
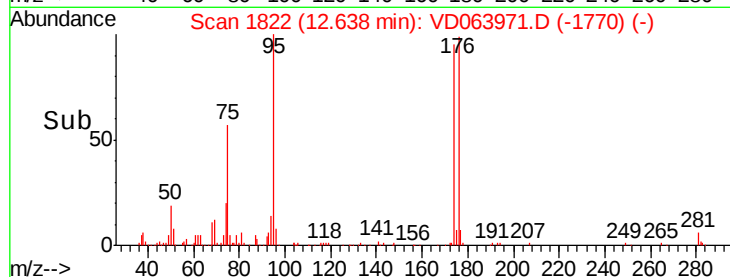
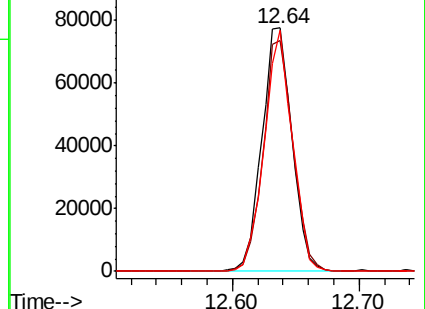
176 92.0 0.0 184.2



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. 0.01 min

Lab File: VD063971.D

Acq: 15 Oct 2019 14:51

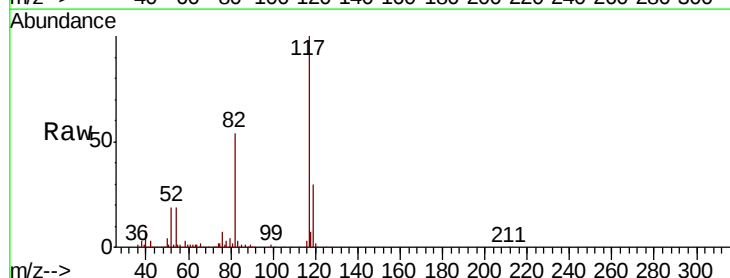
Tgt Ion: 117 Resp: 321287

Ion Ratio Lower Upper

117 100

82 53.9 42.8 64.2

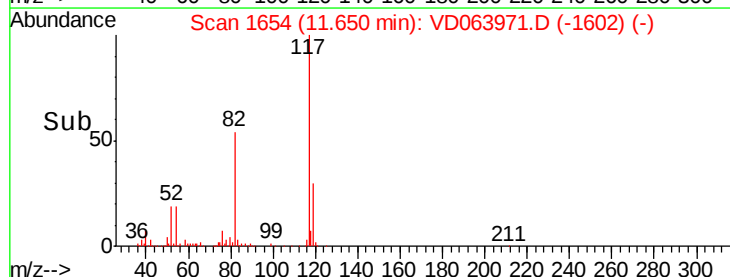
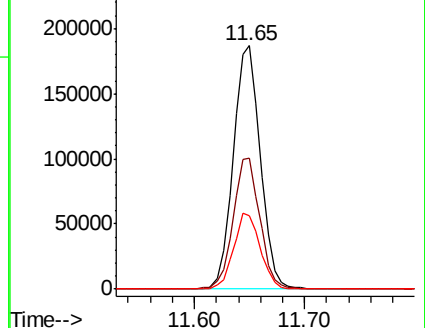
119 30.2 24.4 36.6

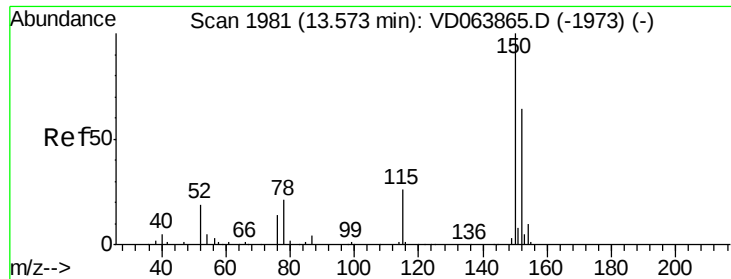


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



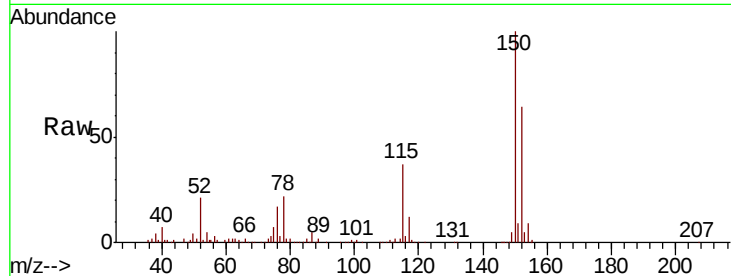


#72

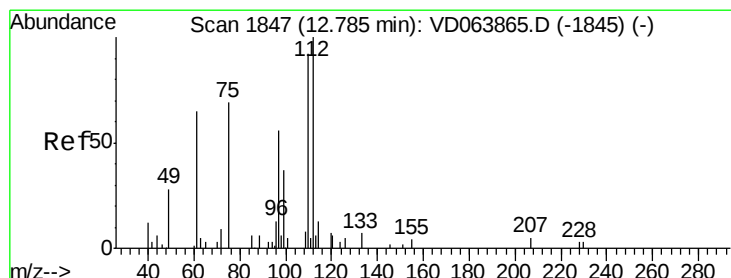
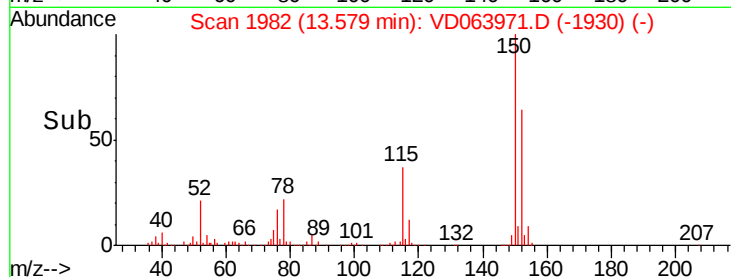
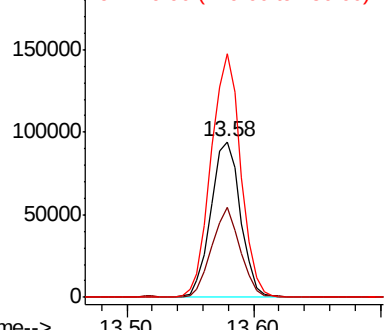
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063971.D
Acq: 15 Oct 2019 14:51

Instrument :
MSVOA_D
ClientSampleId :
VOC-32

Tot Ion:152 Resp: 152733
Ion Ratio Lower Upper
152 100
115 55.9 25.9 77.7
150 156.8 0.0 344.2



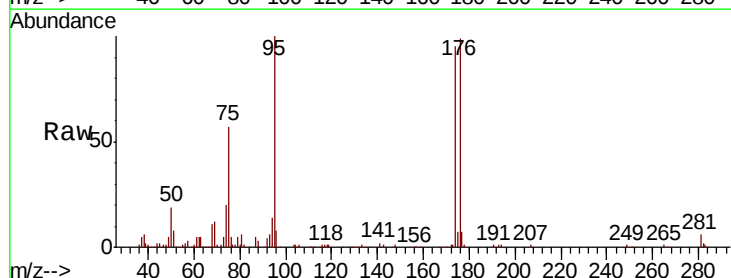
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



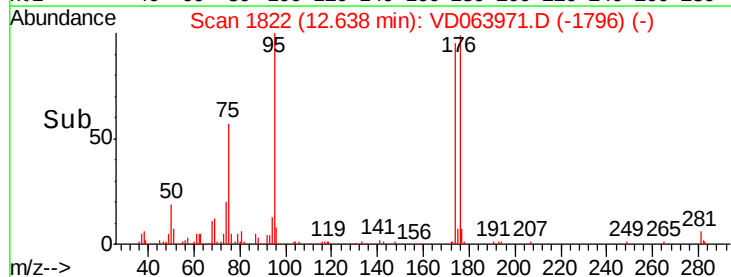
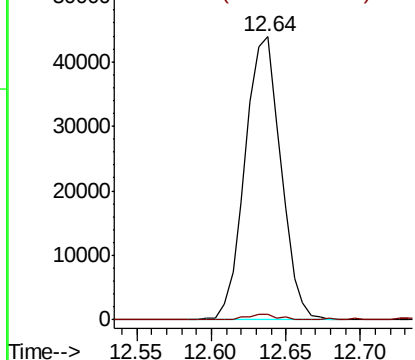
#76

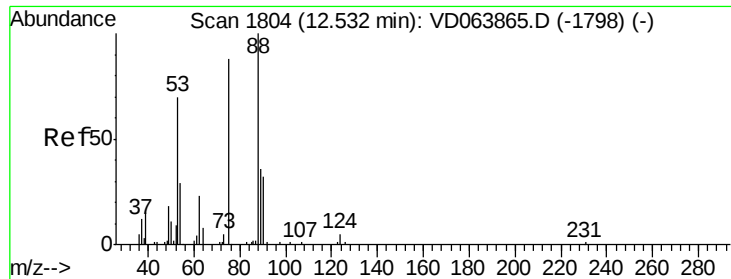
1,2,3-Trichloropropane
Concen: 71.172 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD063971.D
Acq: 15 Oct 2019 14:51

Tgt Ion: 75 Resp: 72806
Ion Ratio Lower Upper
75 100
77 1.8 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: 125.945 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD063971.D

Acq: 15 Oct 2019 14:51

Instrument :

MSVOA_D

ClientSampleId :

VOC-32

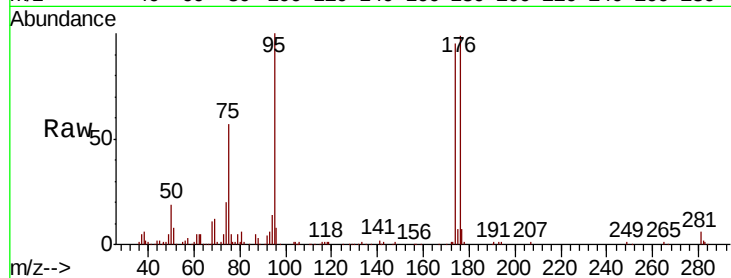
Tot Ion: 75 Resp: 72806

Ion Ratio Lower Upper

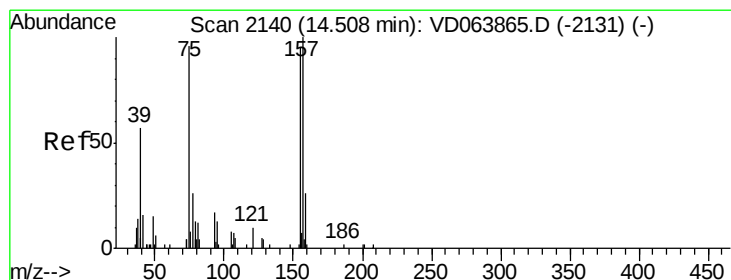
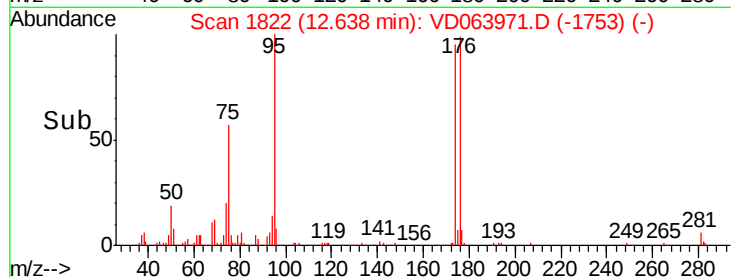
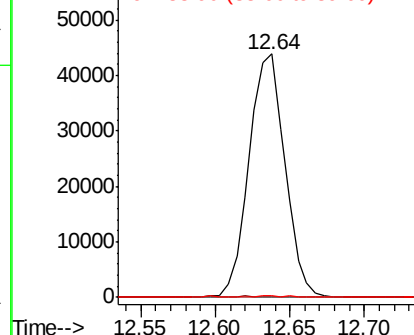
75 100

53 0.2 75.0 112.6#

89 0.4 38.2 57.4#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.35 min Scan# 2113

Delta R.T. -0.16 min

Lab File: VD063971.D

Acq: 15 Oct 2019 14:51

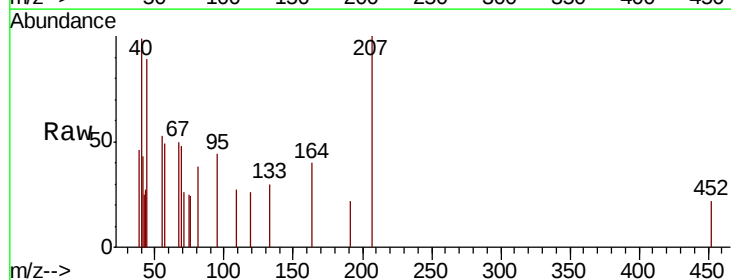
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

