

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\
 Data File : VD067068.D
 Acq On : 03 Oct 2020 07:29
 Operator : VA/SY
 Sample : L4238-02
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VOC

Quant Time: Oct 03 07:51:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	553005	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	922351	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	832642	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	382557	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	255334	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
35) Dibromofluoromethane	7.91	113	284059	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
50) Toluene-d8	10.34	98	1079893	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
62) 4-Bromofluorobenzene	12.64	95	354451	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	

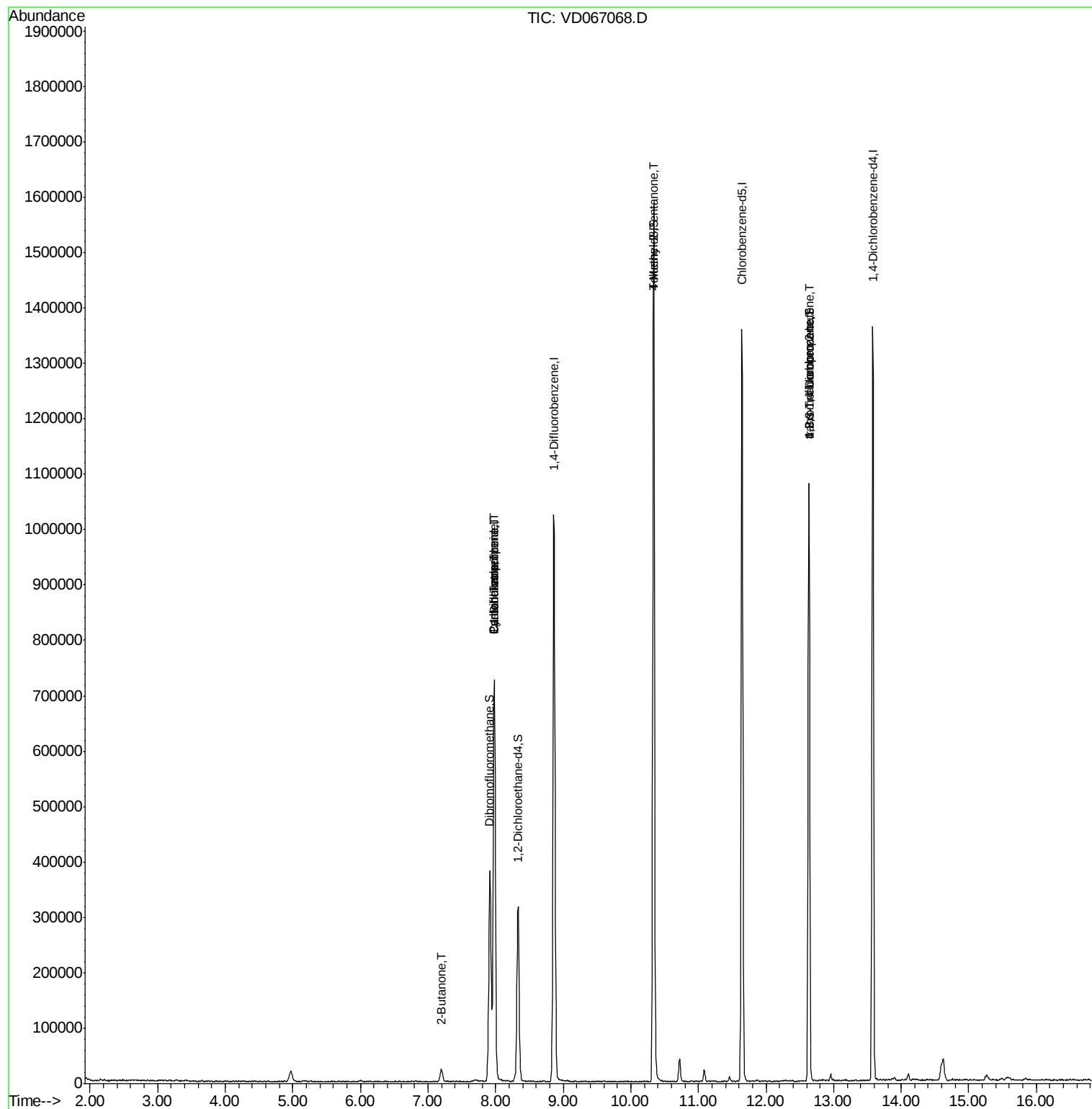
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	814	Below Cal		86
5) Bromomethane	2.77	94	122	Below Cal	#	47
11) Tert butyl alcohol	5.23	59	225	Below Cal	#	72
20) Methylene Chloride	4.97	84	15404	Below Cal		95
25) 2-Butanone	7.20	43	1331	1.155	ug/l #	46
26) 2,2-Dichloropropane	7.21	77	354	Below Cal	#	53
31) Cyclohexane	7.98	56	10301	1.288	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	41475	4.824	ug/l #	49
38) Carbon Tetrachloride	7.97	117	54887	5.900	ug/l #	17
51) 4-Methyl-2-Pentanone	10.34	43	3946	1.444	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	172479	51.761	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	172479	129.048	ug/l #	12

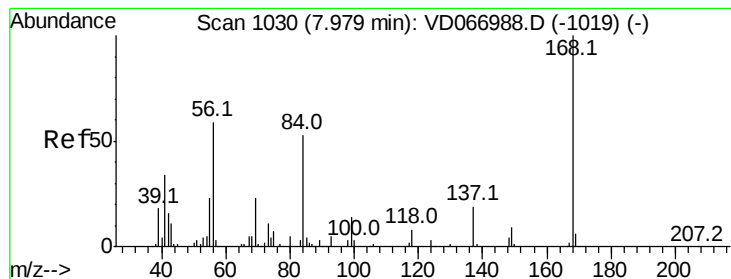
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 01 15:19:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

Instrument :

MSVOA_D

ClientSampleId :

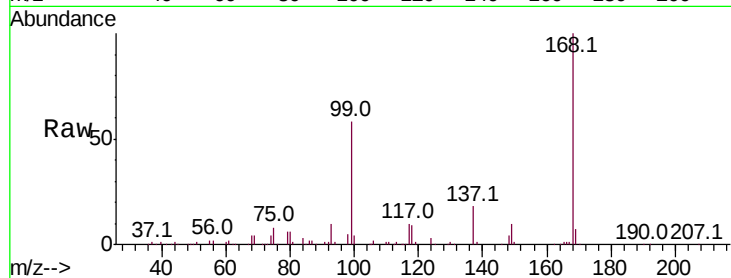
VOC

Tot Ion:168 Resp: 553005

Ion Ratio Lower Upper

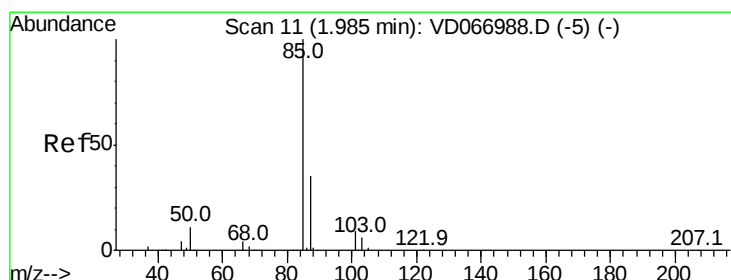
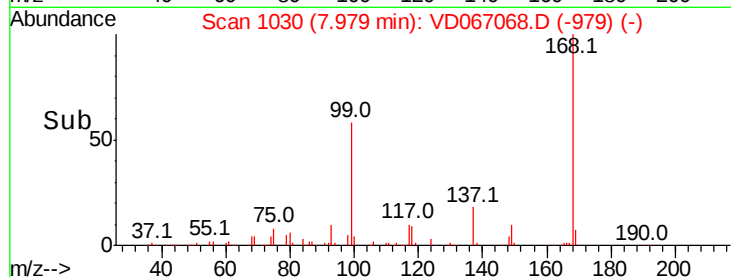
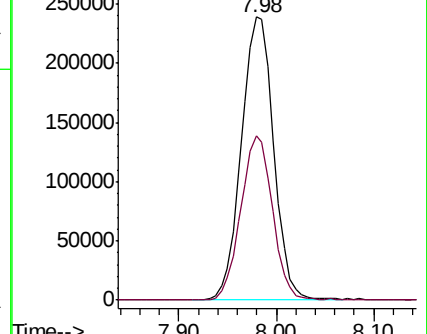
168 100

99 58.1 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067068.D

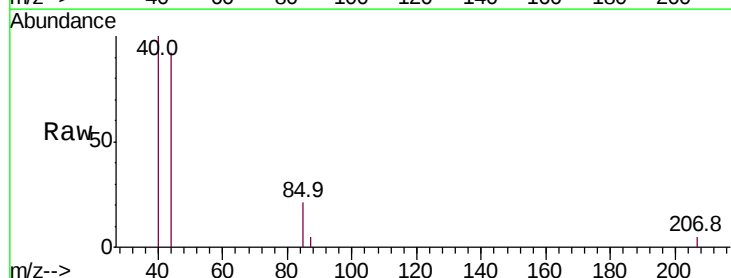
Acq: 03 Oct 2020 07:29

Tgt Ion: 85 Resp: 814

Ion Ratio Lower Upper

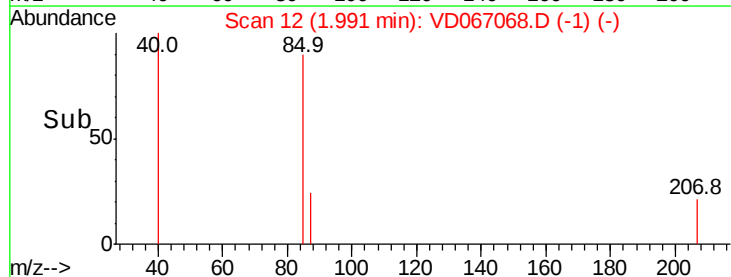
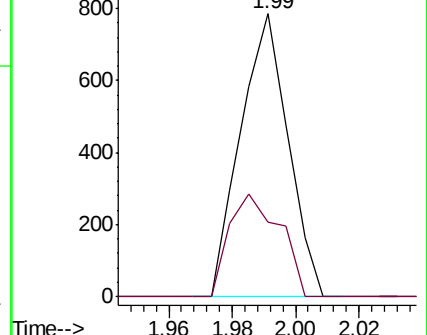
85 100

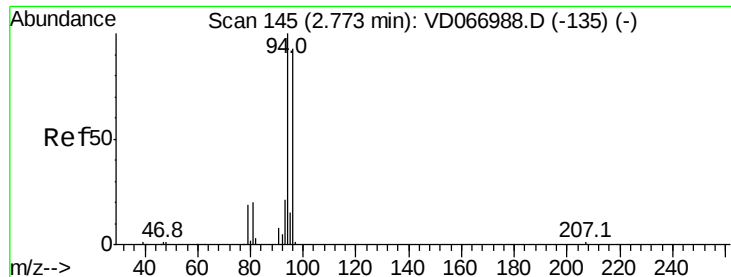
87 26.5 17.3 52.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

Instrument :

MSVOA_D

ClientSampled :

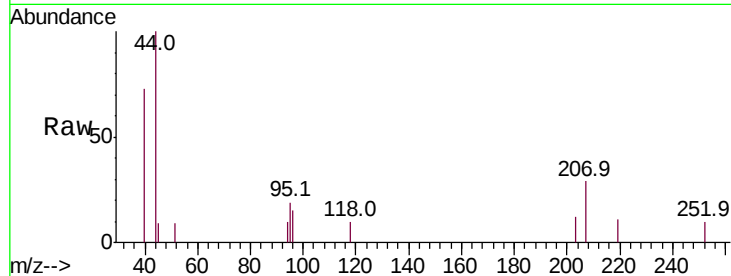
VOC

Tot Ion: 94 Resp: 122

Ion Ratio Lower Upper

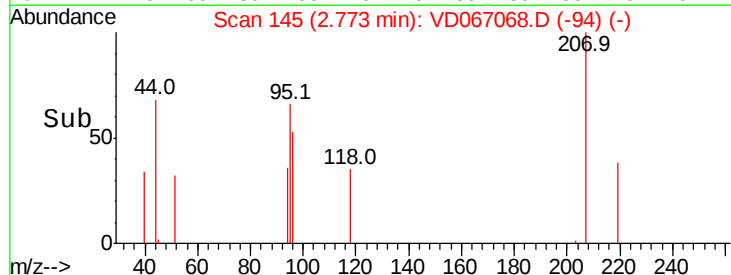
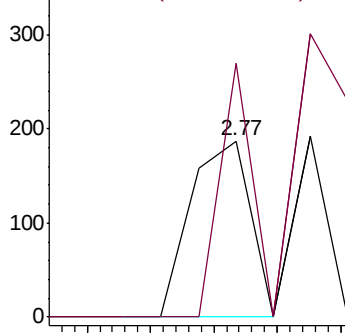
94 100

96 144.4 74.6 112.0#

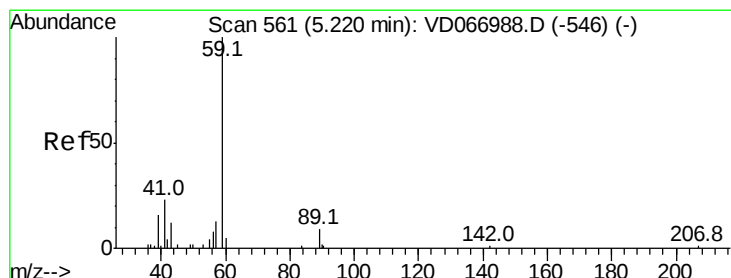


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 562

Delta R.T. 0.01 min

Lab File: VD067068.D

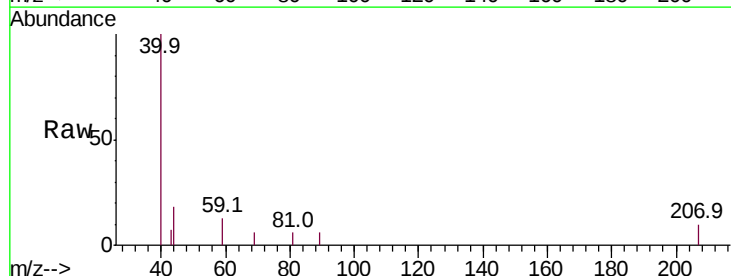
Acq: 03 Oct 2020 07:29

Tgt Ion: 59 Resp: 225

Ion Ratio Lower Upper

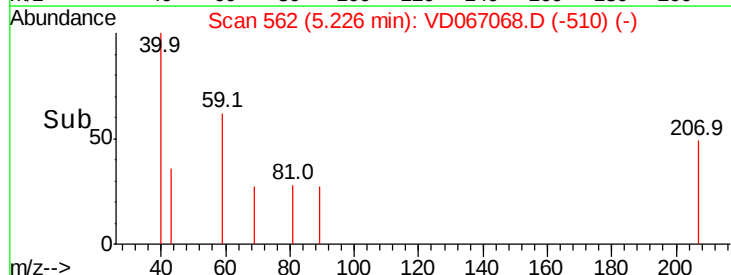
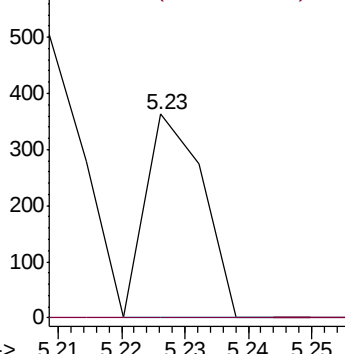
59 100

57 0.0 8.2 12.4#

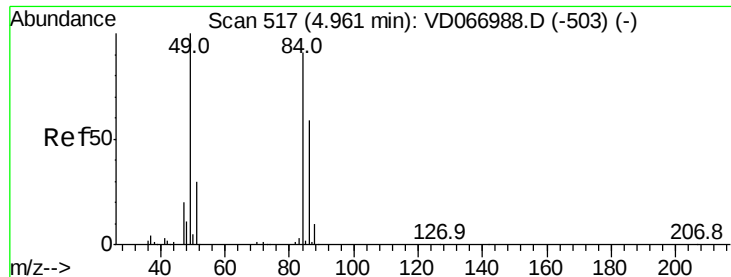


Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

Instrument :

MSVOA_D

ClientSampled :

VOC

Tot Ion: 84 Resp: 15404

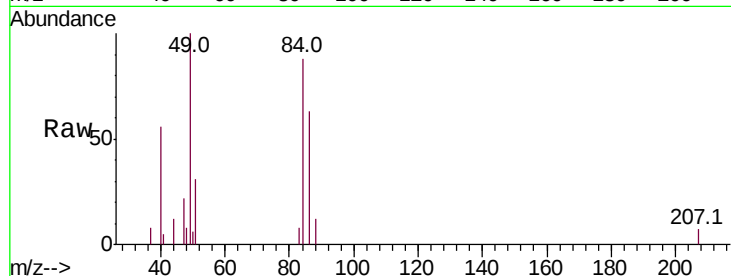
Ion Ratio Lower Upper

84 100

49 113.6 88.2 132.2

51 35.0 26.6 39.8

86 71.3 52.1 78.1

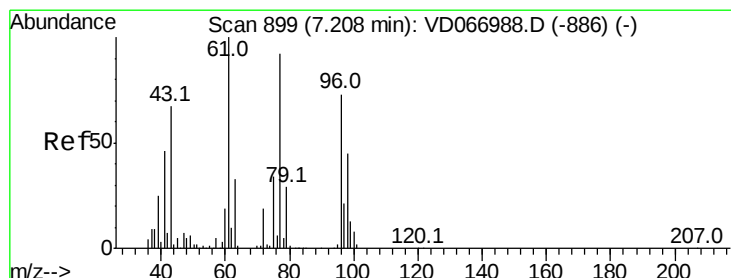
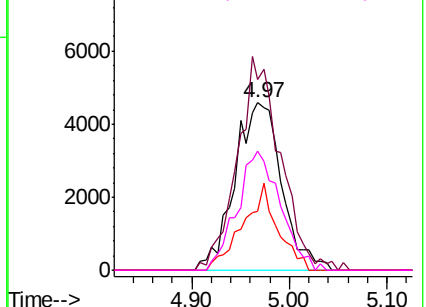
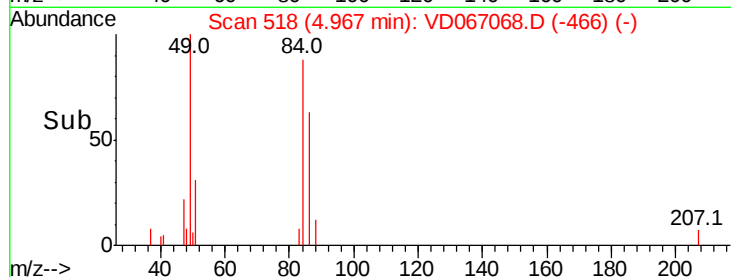


Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 1.155 ug/l

RT: 7.20 min Scan# 897

Delta R.T. -0.01 min

Lab File: VD067068.D

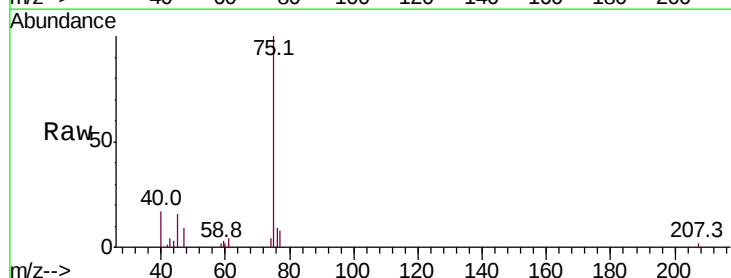
Acq: 03 Oct 2020 07:29

Tgt Ion: 43 Resp: 1331

Ion Ratio Lower Upper

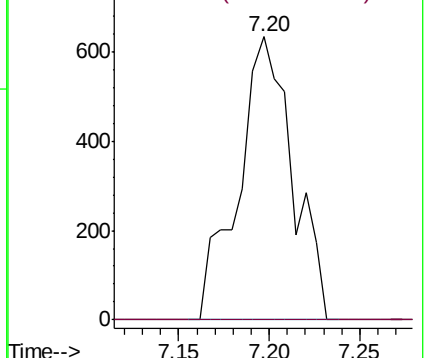
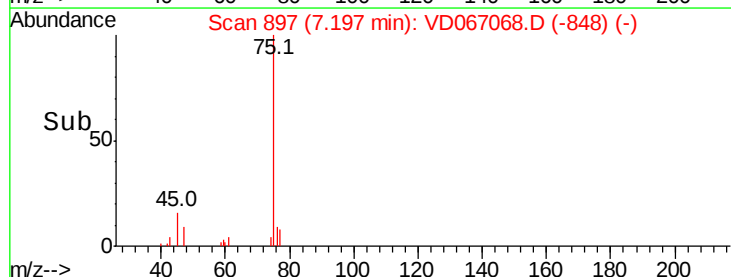
43 100

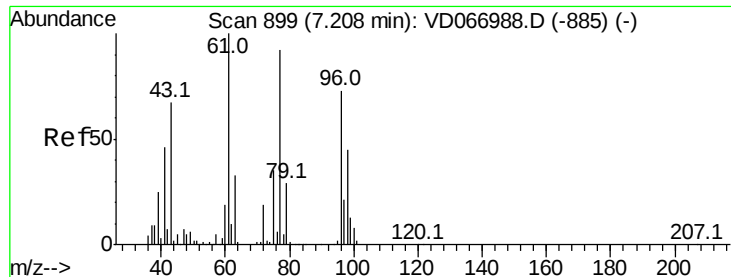
72 0.0 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

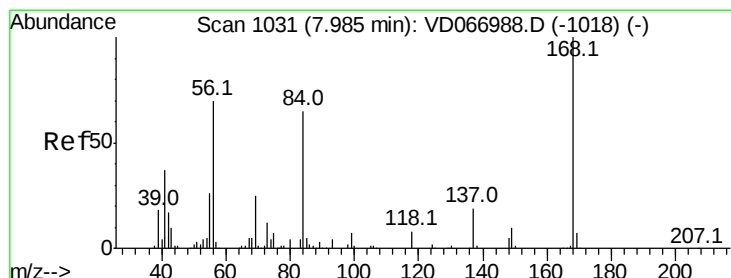
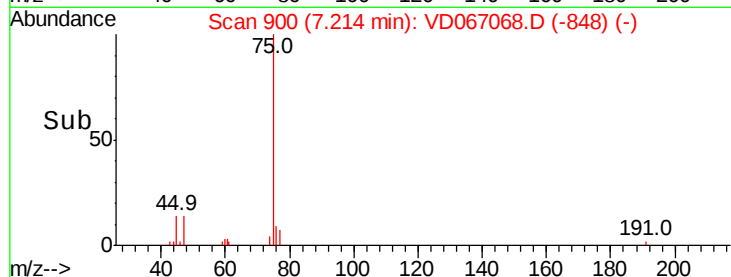
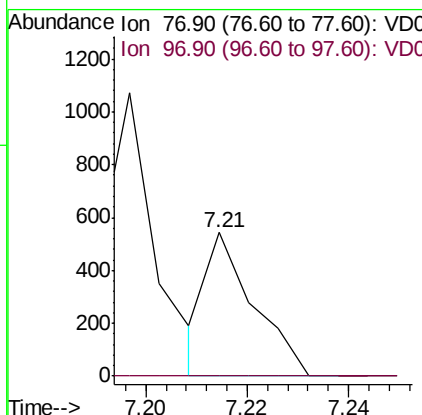
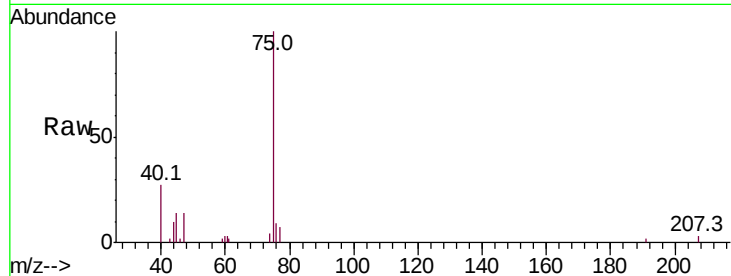




#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.21 min Scan# 900
Delta R.T. 0.01 min
Lab File: VD067068.D
Acq: 03 Oct 2020 07:29

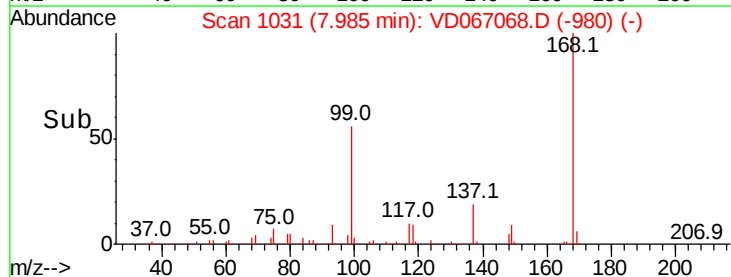
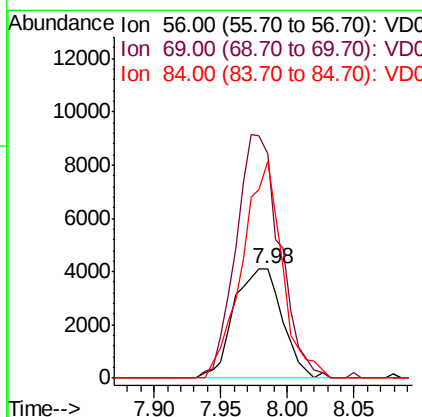
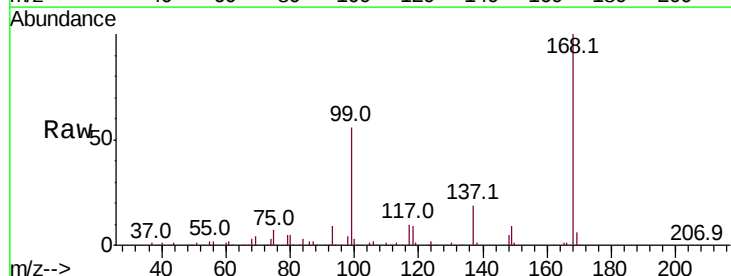
Instrument :
MSVOA_D
ClientSampleId :
VOC

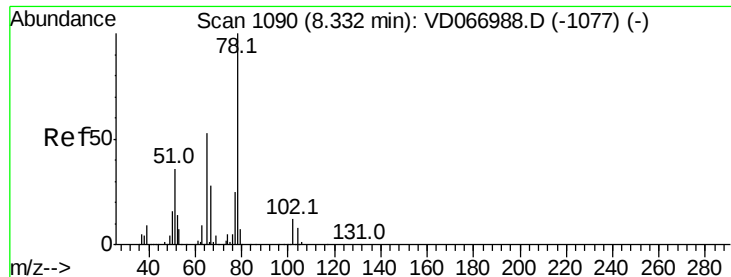
Tot Ion: 77 Resp: 354
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#31
Cyclohexane
Concen: 1.288 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD067068.D
Acq: 03 Oct 2020 07:29

Tgt Ion: 56 Resp: 10301
Ion Ratio Lower Upper
56 100
69 204.8 29.0 43.6#
84 198.4 74.2 111.2#





#33

1,2-Dichloroethane-d4

Concen: 47.936 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

Instrument :

MSVOA_D

ClientSampleId :

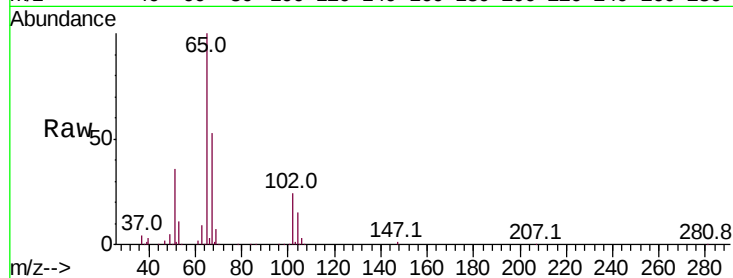
VOC

Tot Ion: 65 Resp: 255334

Ion Ratio Lower Upper

65 100

67 52.0 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

120000

100000

80000

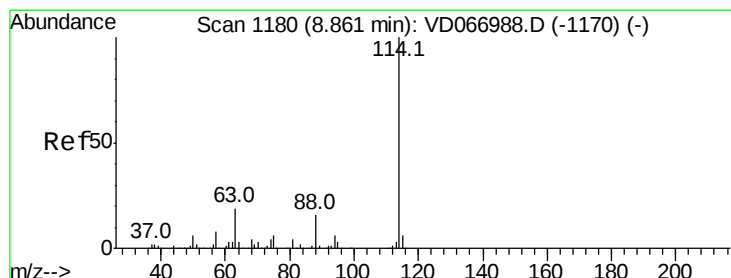
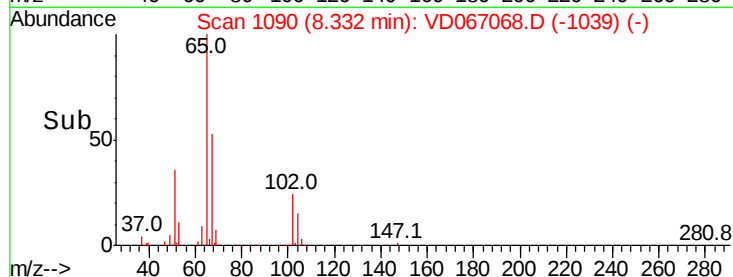
60000

40000

20000

0

Time--> 8.20 8.30 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

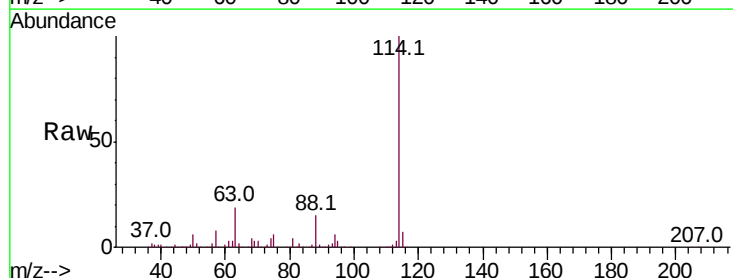
Tgt Ion: 114 Resp: 922351

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.4

88 15.3 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

500000

400000

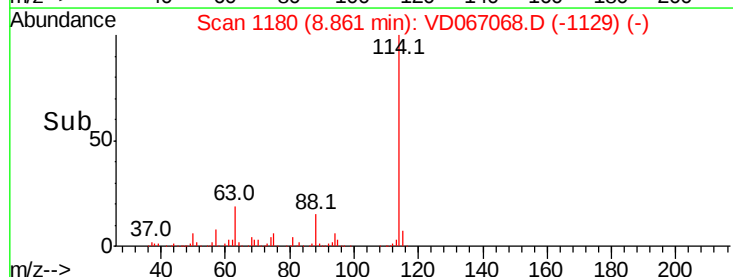
300000

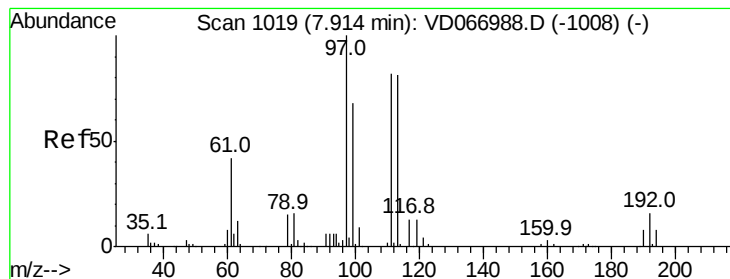
200000

100000

0

Time--> 8.80 8.90 9.00





#35

Dibromofluoromethane

Concen: 47.042 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

Instrument :

MSVOA_D

ClientSampleId :

VOC

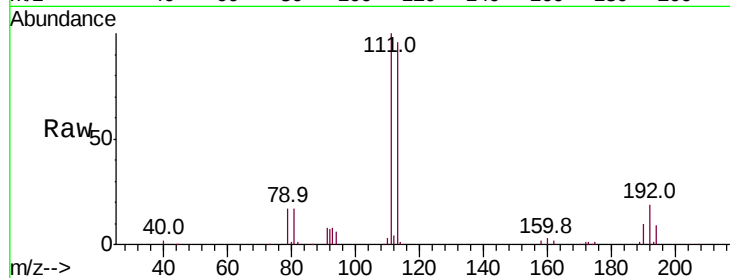
Tot Ion:113 Resp: 284059

Ion Ratio Lower Upper

113 100

111 102.8 83.0 124.4

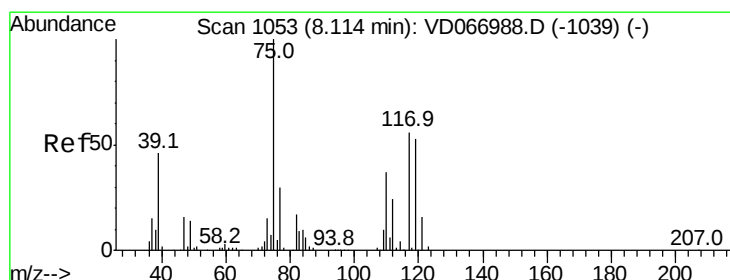
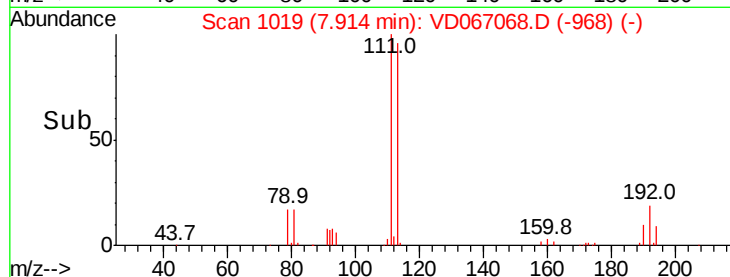
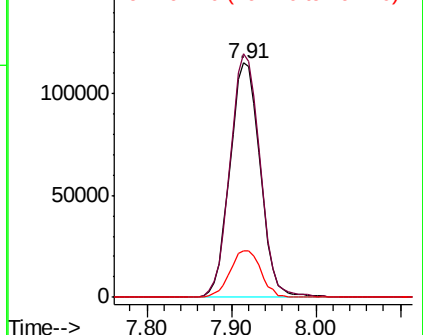
192 20.3 15.5 23.3



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: 4.824 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

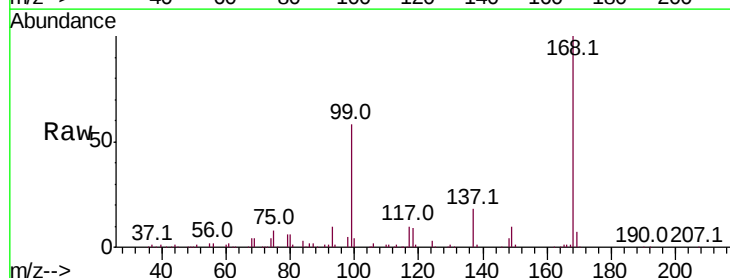
Tgt Ion: 75 Resp: 41475

Ion Ratio Lower Upper

75 100

110 8.9 18.4 55.0#

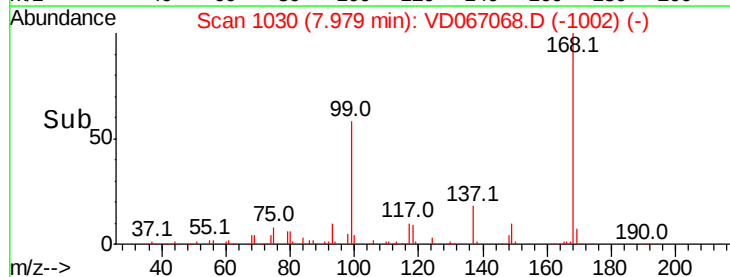
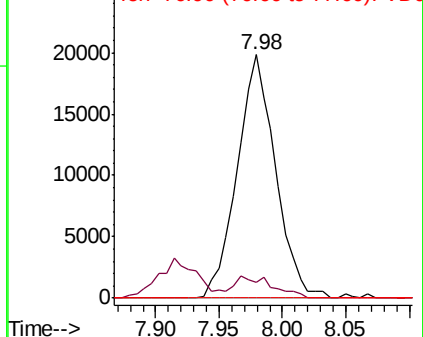
77 0.0 24.8 37.2#

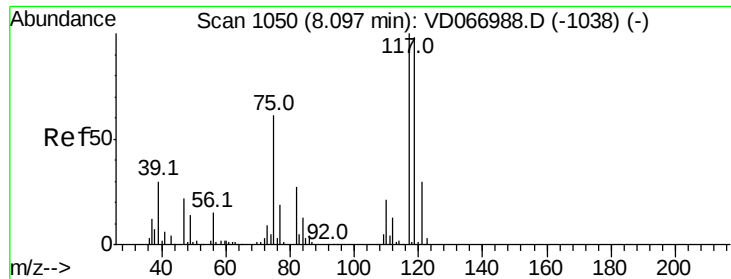


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.900 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

Instrument :

MSVOA_D

ClientSampleId :

VOC

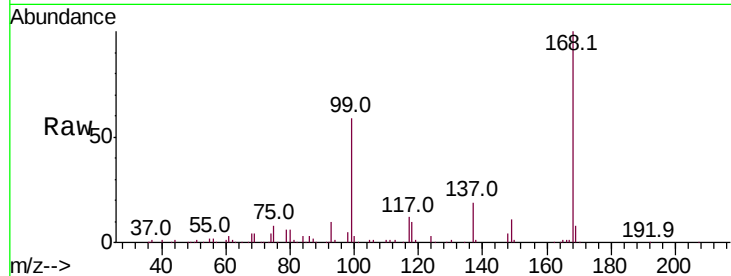
Tot Ion:117 Resp: 54887

Ion Ratio Lower Upper

117 100

119 7.2 78.7 118.1#

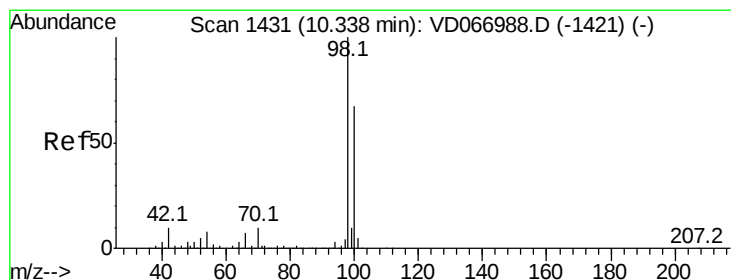
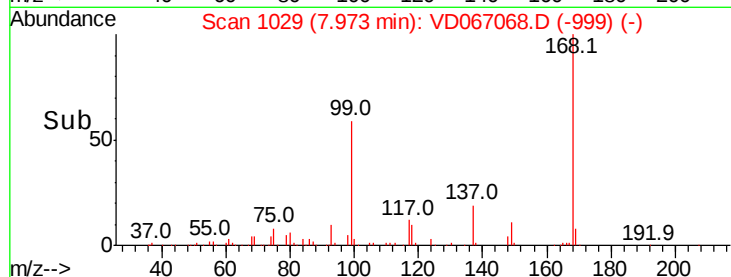
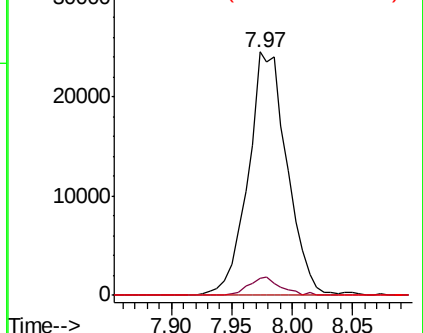
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.078 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067068.D

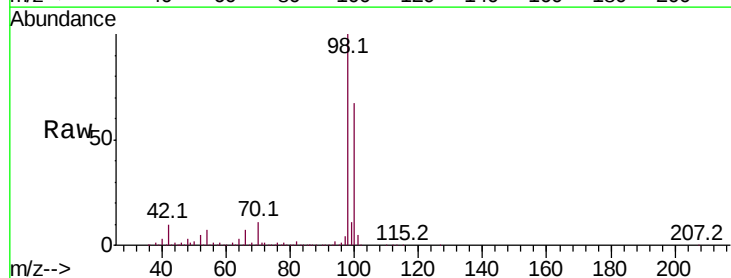
Acq: 03 Oct 2020 07:29

Tgt Ion: 98 Resp: 1079893

Ion Ratio Lower Upper

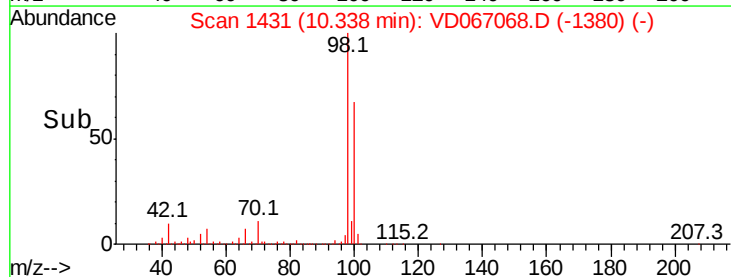
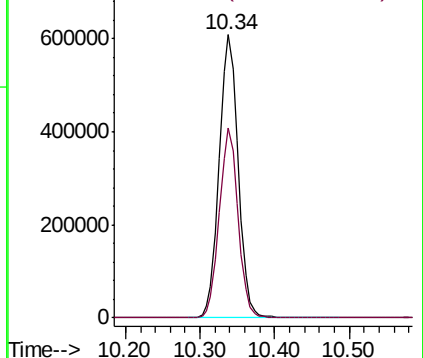
98 100

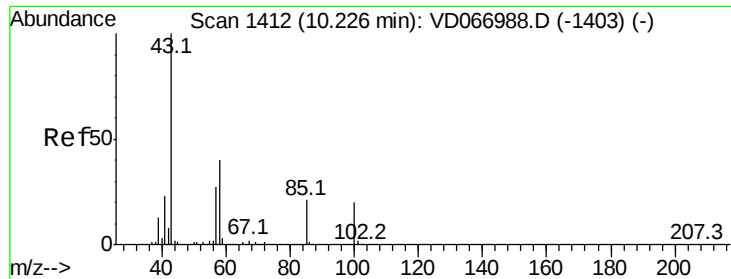
100 66.1 52.8 79.2



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: 1.444 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

Instrument :

MSVOA_D

ClientSampleID :

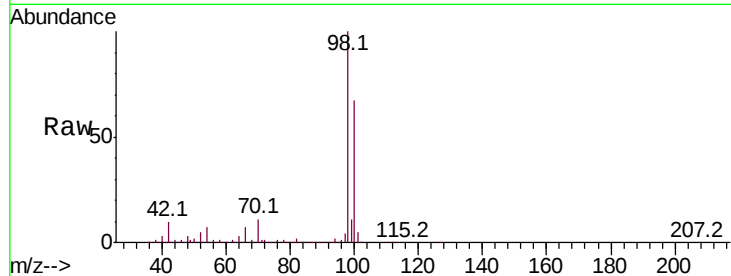
VOC

Tot Ion: 43 Resp: 3946

Ion Ratio Lower Upper

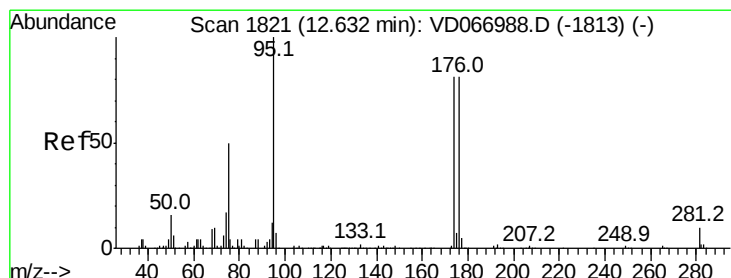
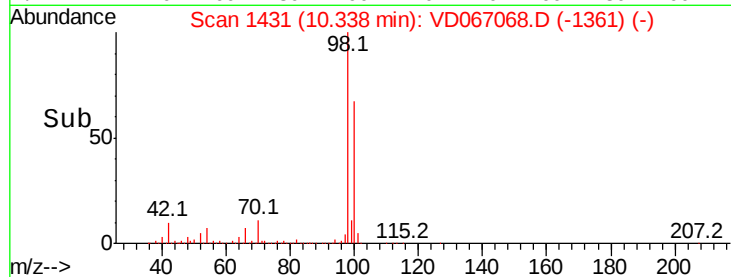
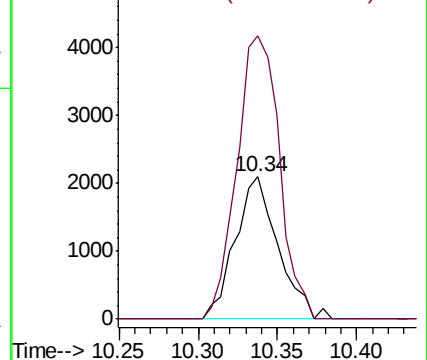
43 100

58 197.4 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 47.452 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

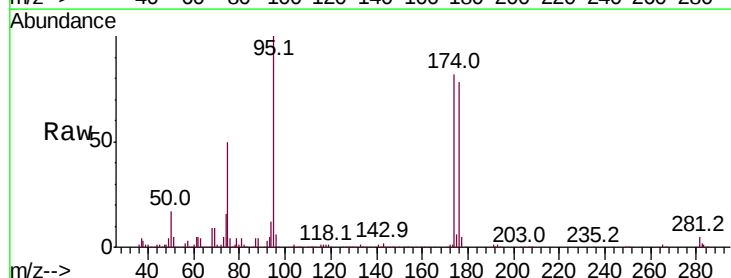
Tgt Ion: 95 Resp: 354451

Ion Ratio Lower Upper

95 100

174 82.4 0.0 167.6

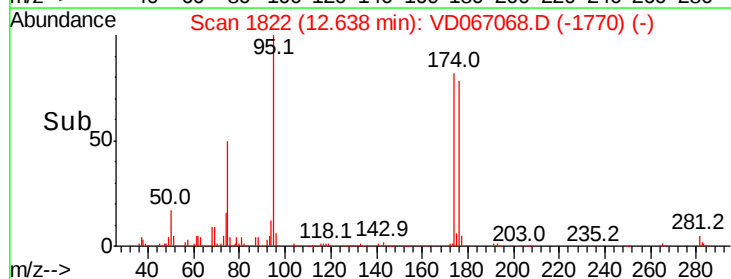
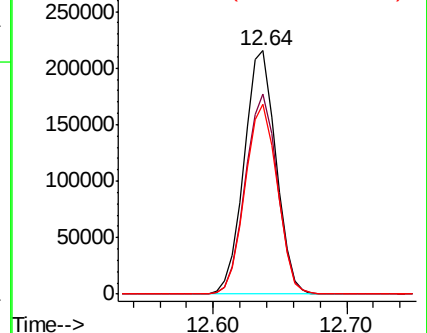
176 79.0 0.0 162.4

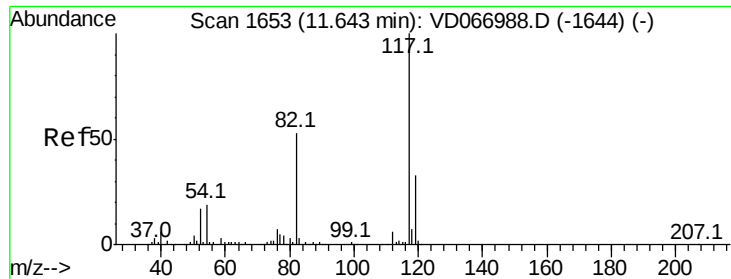


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

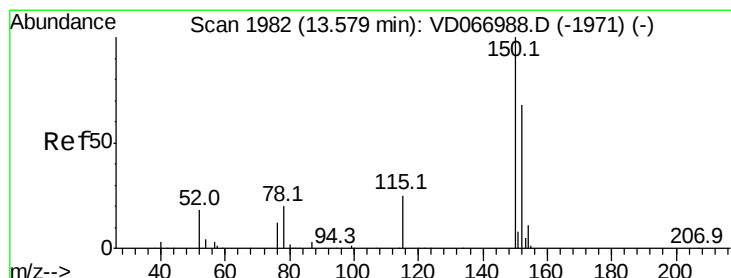
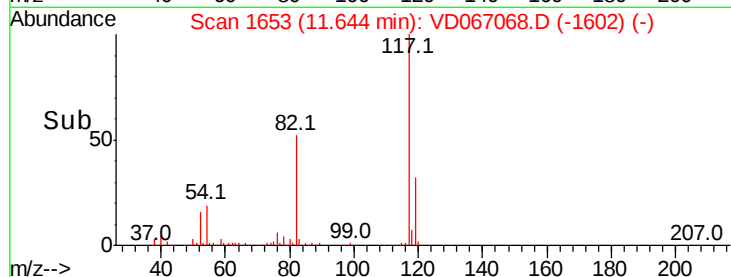
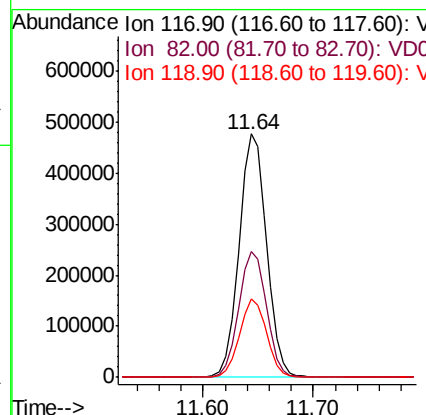
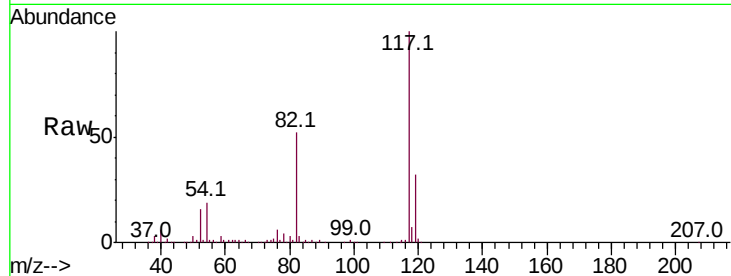




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067068.D
Acq: 03 Oct 2020 07:29

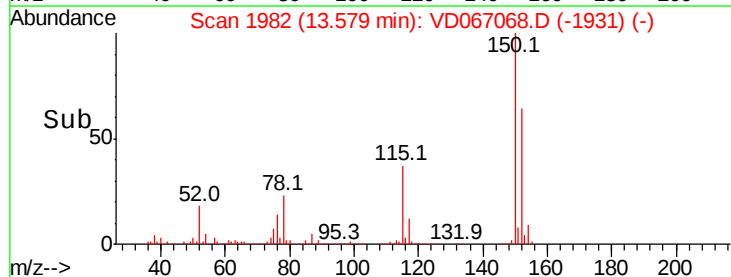
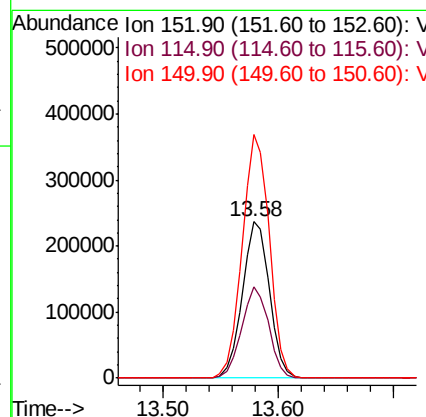
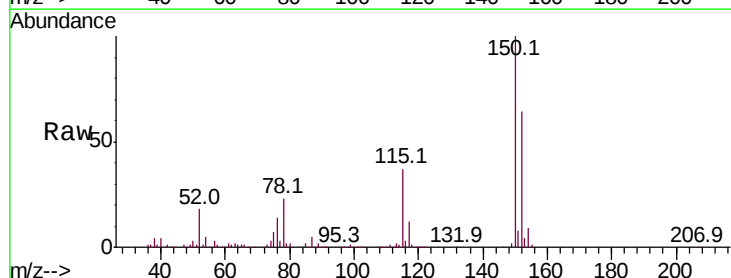
Instrument :
MSVOA_D
ClientSampled :
VOC

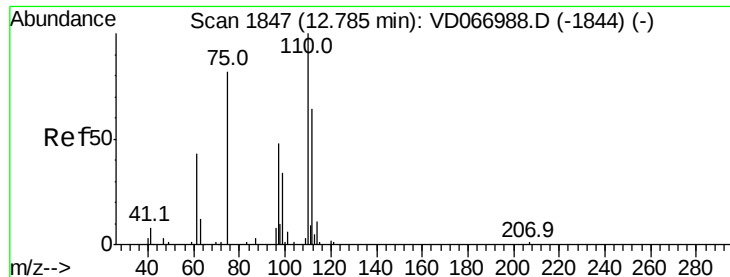
Tot Ion:117 Resp: 832642
Ion Ratio Lower Upper
117 100
82 51.9 42.6 63.8
119 32.2 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067068.D
Acq: 03 Oct 2020 07:29

Tgt Ion:152 Resp: 382557
Ion Ratio Lower Upper
152 100
115 58.2 29.6 88.8
150 156.5 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 51.761 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

Instrument :

MSVOA_D

ClientSampleId :

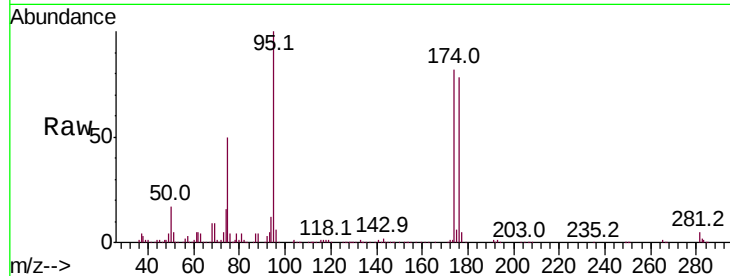
VOC

Tot Ion: 75 Resp: 172479

Ion Ratio Lower Upper

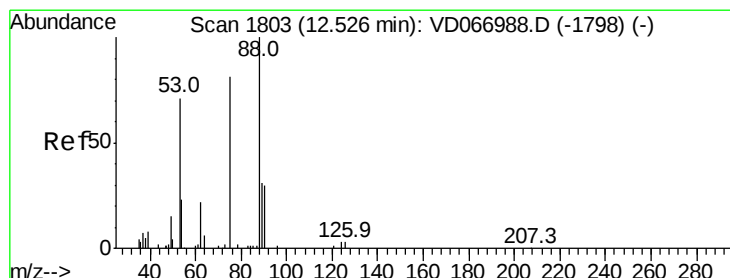
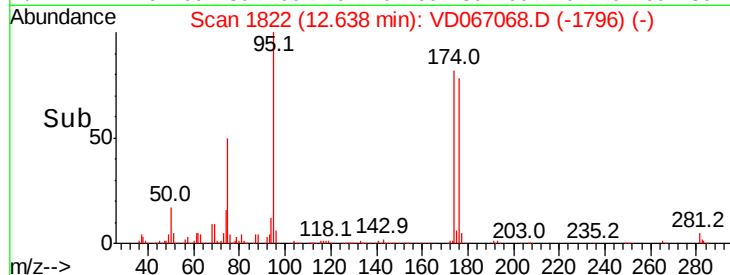
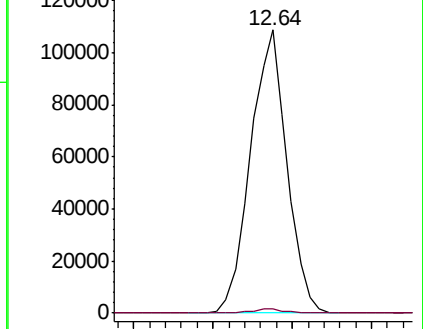
75 100

77 1.5 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: 129.048 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067068.D

Acq: 03 Oct 2020 07:29

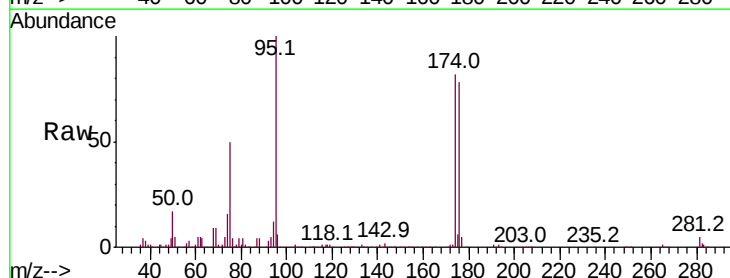
Tgt Ion: 75 Resp: 172479

Ion Ratio Lower Upper

75 100

53 0.2 73.8 110.6#

89 0.0 38.9 58.3#



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

