

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\
 Data File : VD067042.D
 Acq On : 02 Oct 2020 18:15
 Operator : VA/SY
 Sample : L4198-28RE
 Misc : 6.04G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-19

Quant Time: Oct 03 04:49:44 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	562478	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	950811	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	866887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	405751	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	275333	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
35) Dibromofluoromethane	7.91	113	297940	47.86	ug/l	0.00
Spiked Amount			Recovery	=	95.72%	
50) Toluene-d8	10.34	98	1120337	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
62) 4-Bromofluorobenzene	12.63	95	376104	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	

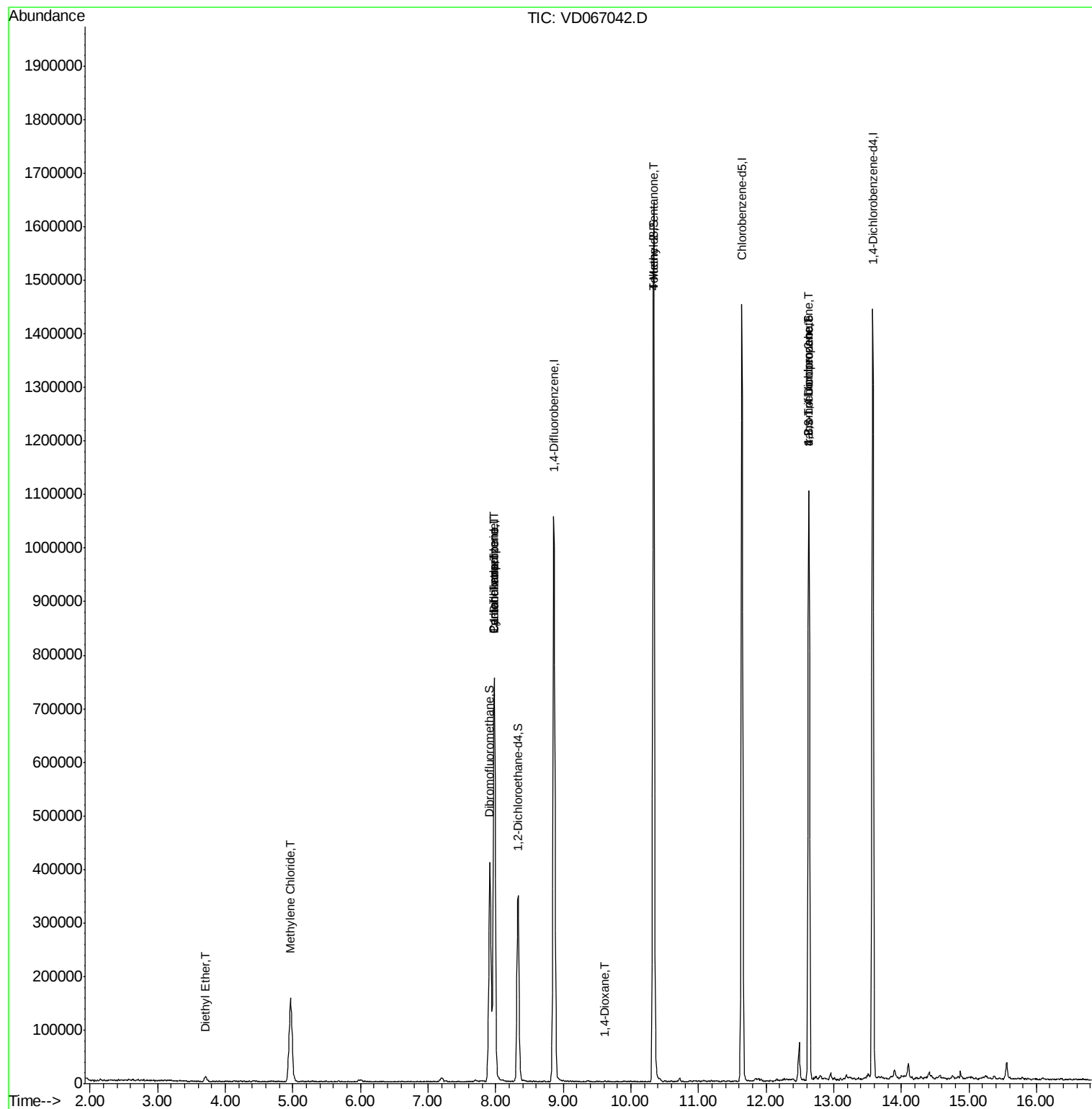
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	435	Below Cal	#	40
5) Bromomethane	2.79	94	578	Below Cal	#	48
8) Diethyl Ether	3.71	74	5544	2.240	ug/l	95
11) Tert butyl alcohol	5.21	59	952	Below Cal	#	72
20) Methylene Chloride	4.96	84	126538	16.719	ug/l	91
26) 2,2-Dichloropropane	7.22	77	970	Below Cal	#	53
31) Cyclohexane	7.98	56	11433	1.405	ug/l	# 1
36) 1,1-Dichloropropene	7.98	75	41221	4.651	ug/l	# 51
38) Carbon Tetrachloride	7.98	117	54751	5.710	ug/l	# 17
49) 1,4-Dioxane	9.61	88	70	2.018	ug/l	# 8
51) 4-Methyl-2-Pentanone	10.34	43	4062	1.442	ug/l	# 1
76) 1,2,3-Trichloropropane	12.63	75	185050	52.359	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.63	75	185050	130.539	ug/l	# 12

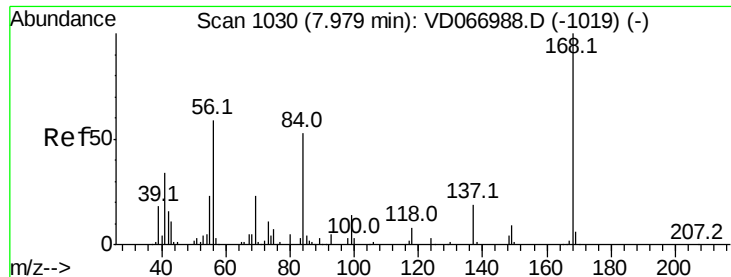
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067042.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

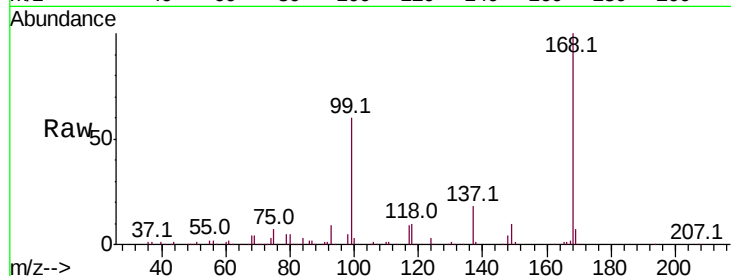
RO-19

Tot Ion:168 Resp: 562478

Ion Ratio Lower Upper

168 100

99 59.5 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

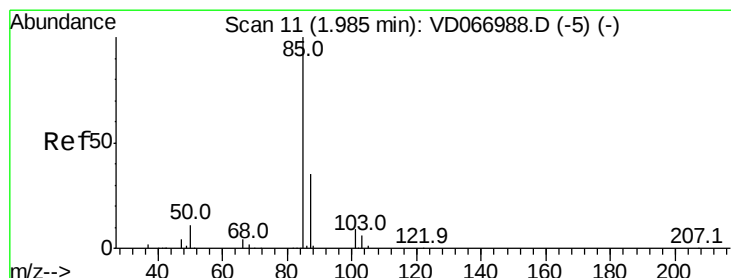
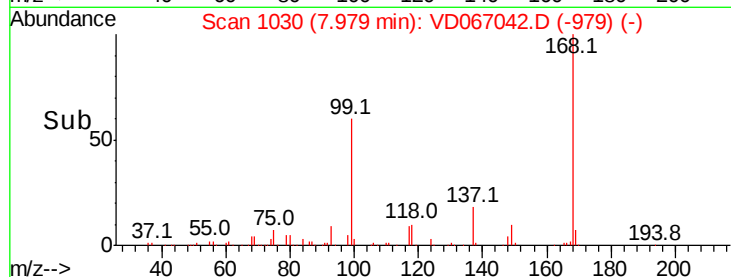
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067042.D

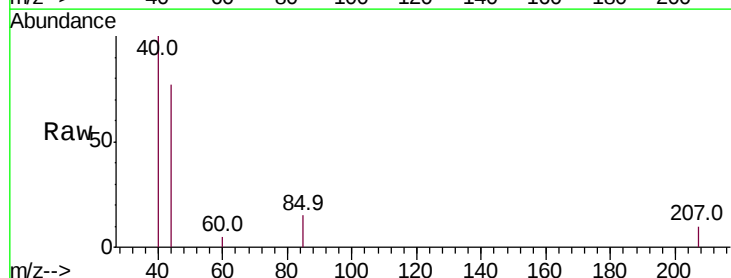
Acq: 02 Oct 2020 18:15

Tgt Ion: 85 Resp: 435

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

600

500

400

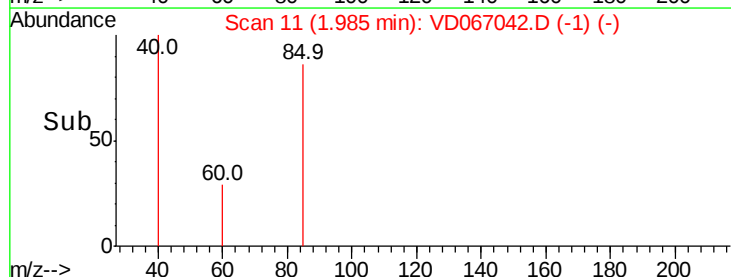
300

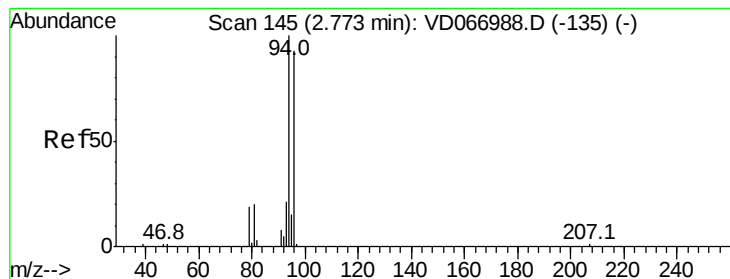
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD067042.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleID :

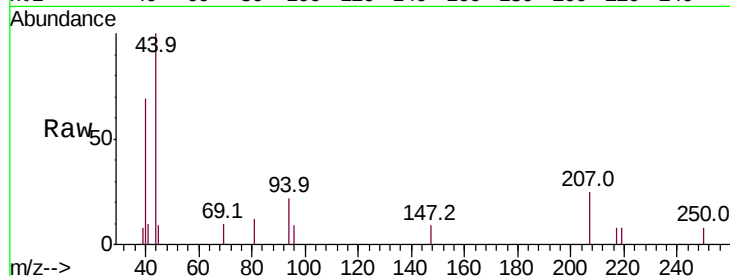
RO-19

Tot Ion: 94 Resp: 578

Ion Ratio Lower Upper

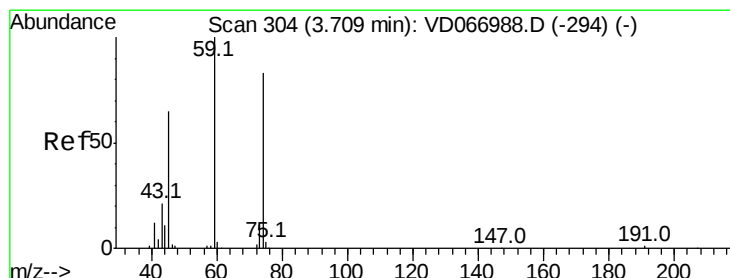
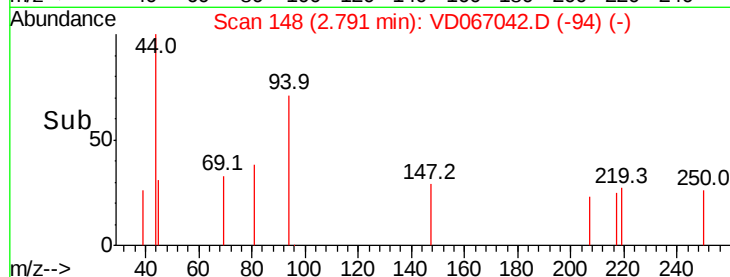
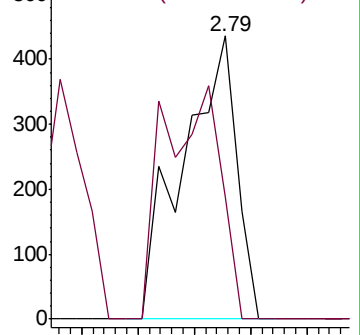
94 100

96 43.3 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#8

Diethyl Ether

Concen: 2.240 ug/l

RT: 3.71 min Scan# 305

Delta R.T. 0.01 min

Lab File: VD067042.D

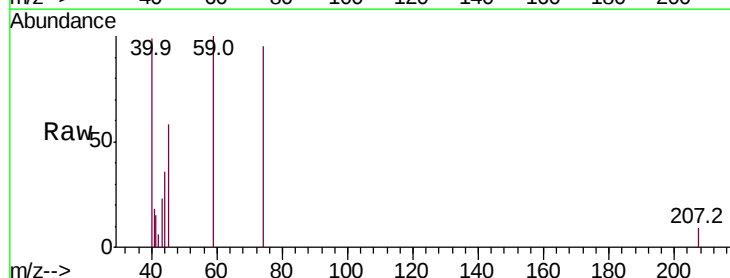
Acq: 02 Oct 2020 18:15

Tgt Ion: 74 Resp: 5544

Ion Ratio Lower Upper

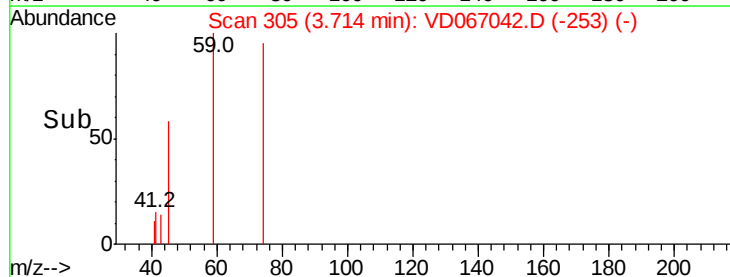
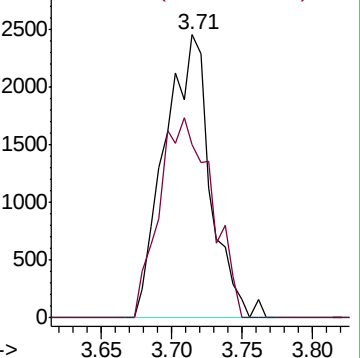
74 100

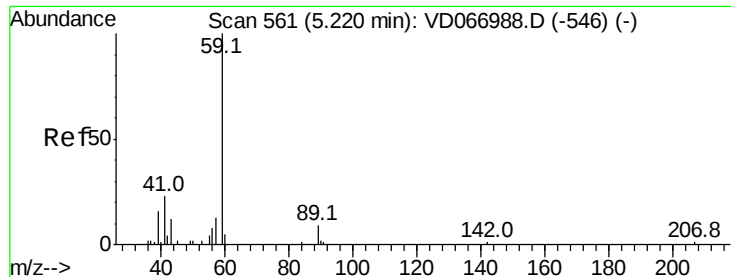
45 81.3 43.1 129.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

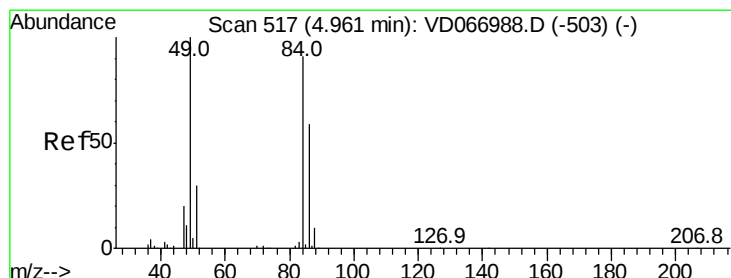
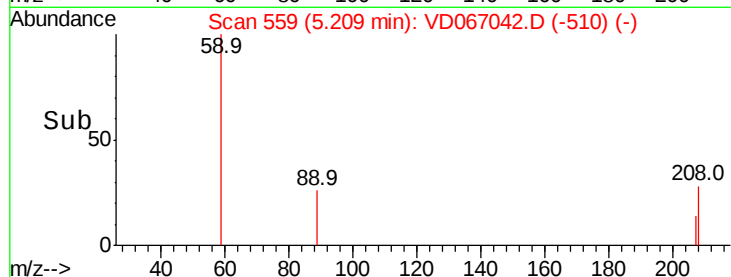
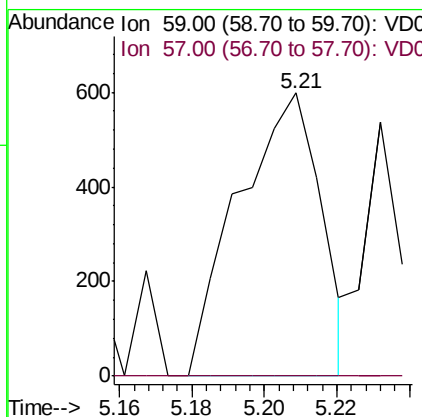
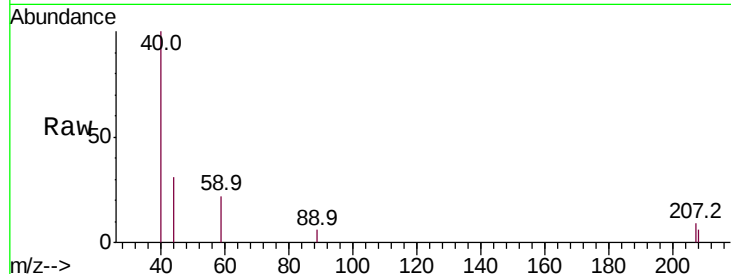




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.21 min Scan# 559
Delta R.T. -0.01 min
Lab File: VD067042.D
Acq: 02 Oct 2020 18:15

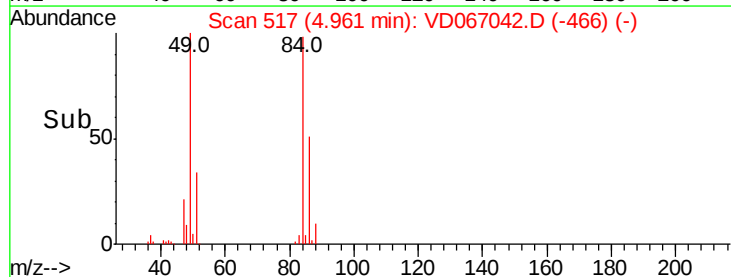
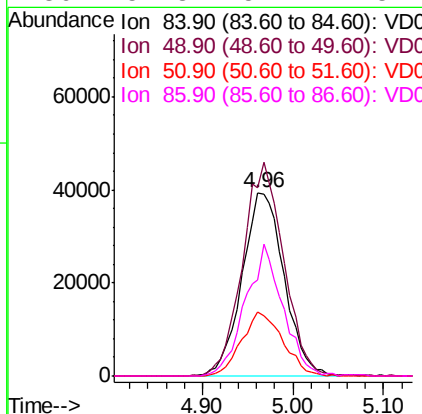
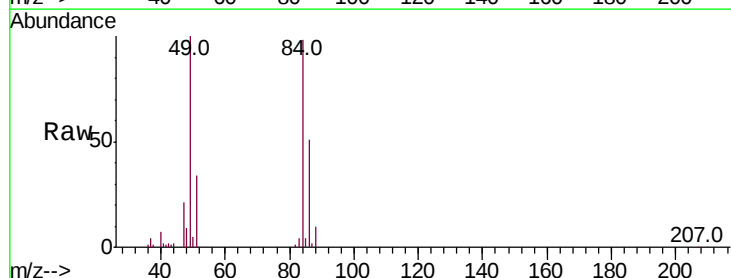
Instrument :
MSVOA_D
ClientSampleID :
RO-19

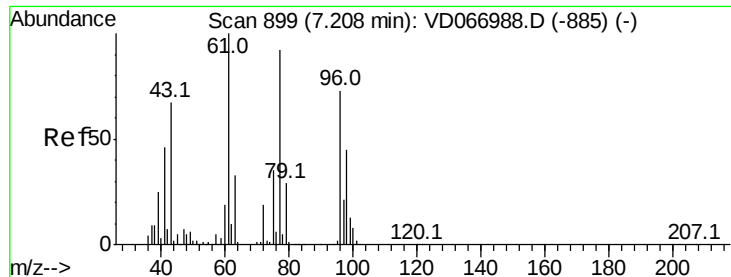
Tot Ion: 59 Resp: 952
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#20
Methylene Chloride
Concen: 16.719 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD067042.D
Acq: 02 Oct 2020 18:15

Tgt Ion: 84 Resp: 126538
Ion Ratio Lower Upper
84 100
49 102.5 88.2 132.2
51 34.9 26.6 39.8
86 52.3 52.1 78.1

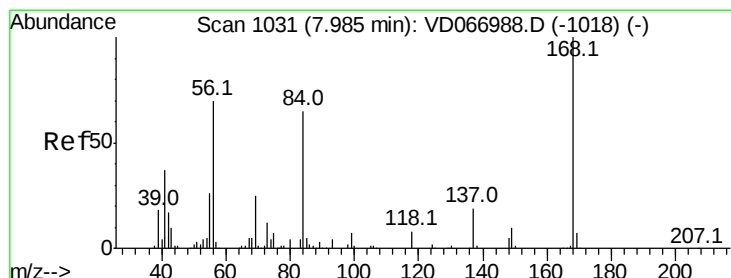
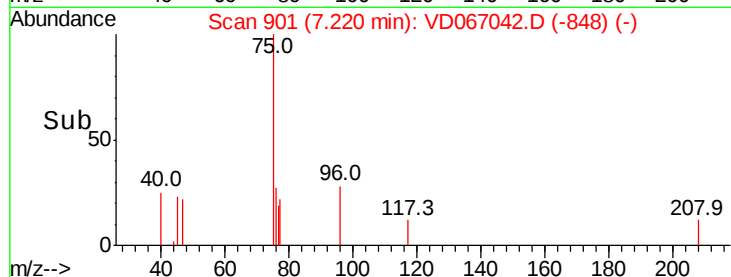
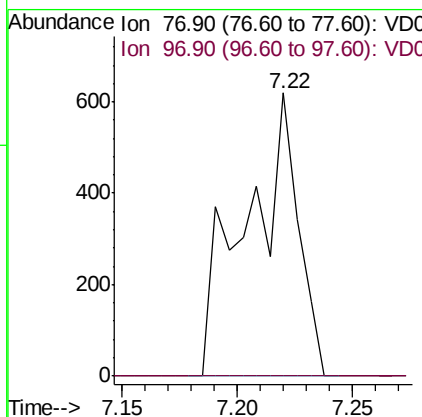
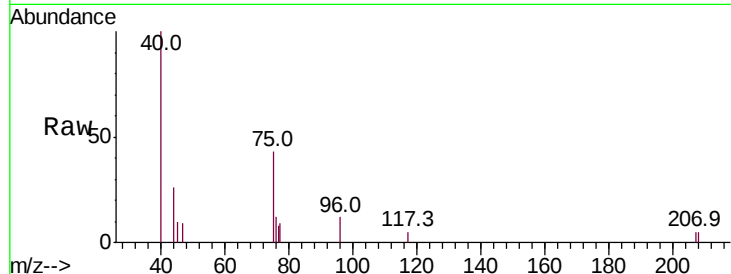




#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.22 min Scan# 901
Delta R.T. 0.01 min
Lab File: VD067042.D
Acq: 02 Oct 2020 18:15

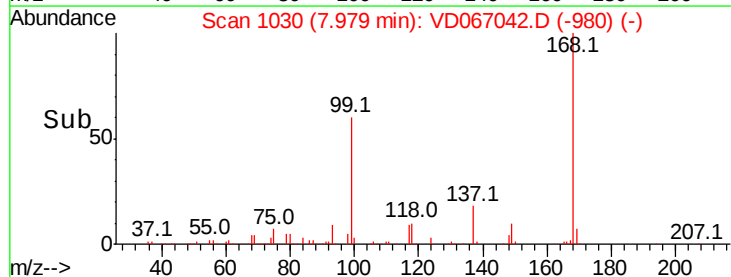
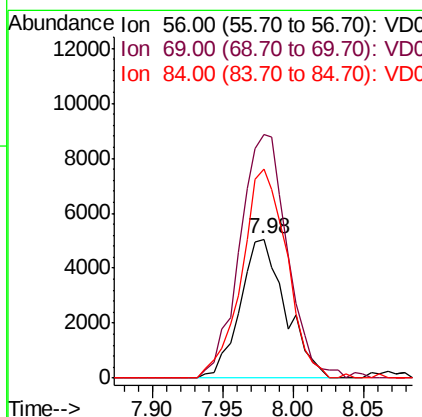
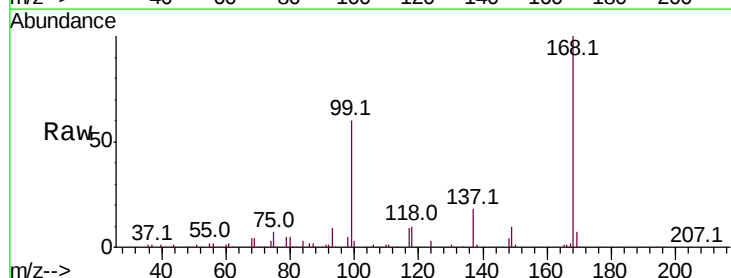
Instrument :
MSVOA_D
ClientSampleId :
RO-19

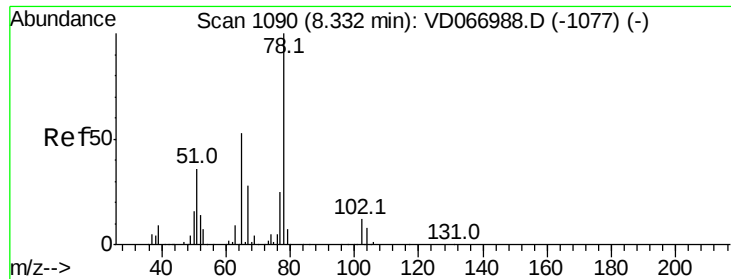
Tot Ion: 77 Resp: 970
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#31
Cyclohexane
Concen: 1.405 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067042.D
Acq: 02 Oct 2020 18:15

Tgt Ion: 56 Resp: 11433
Ion Ratio Lower Upper
56 100
69 175.5 29.0 43.6#
84 150.3 74.2 111.2#





#33

1,2-Dichloroethane-d4

Concen: 50.820 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067042.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

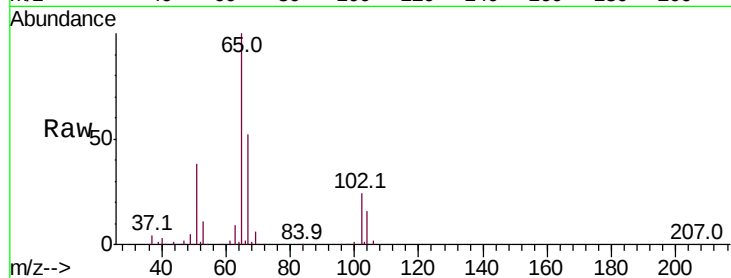
RO-19

Tot Ion: 65 Resp: 275333

Ion Ratio Lower Upper

65 100

67 52.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

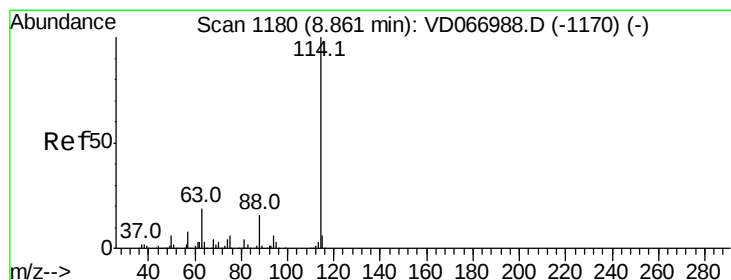
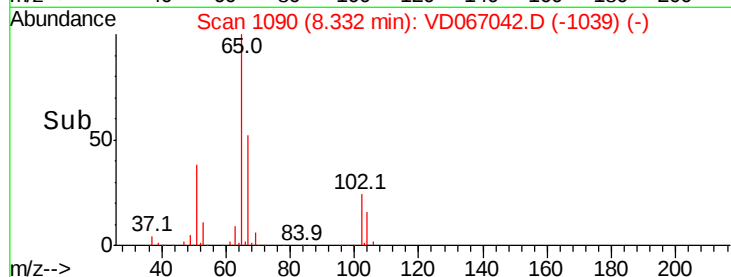
8.33

100000

50000

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: VD067042.D

Acq: 02 Oct 2020 18:15

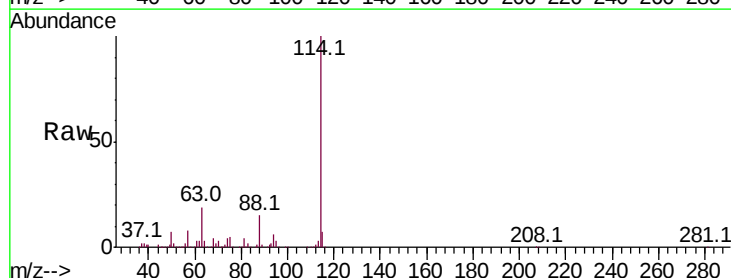
Tgt Ion: 114 Resp: 950811

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.4

88 14.8 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

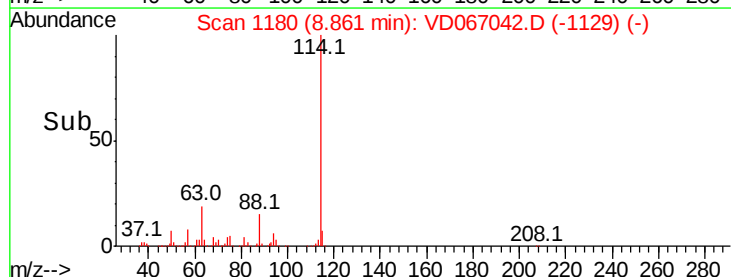
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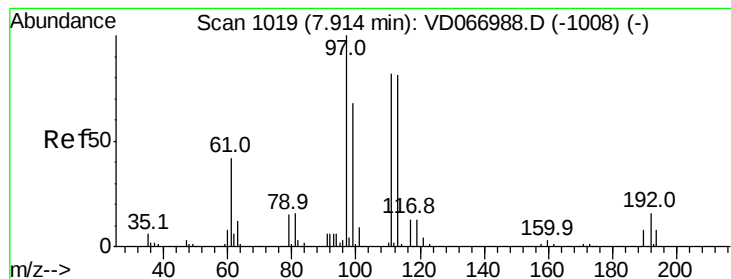
200000

100000

0

Time--> 8.80 8.90 9.00





#35

Dibromofluoromethane

Concen: 47.864 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067042.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

RO-19

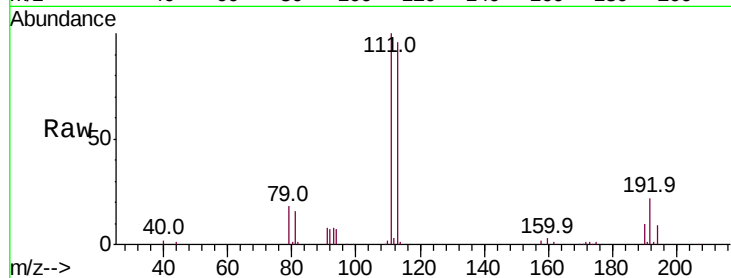
Tot Ion:113 Resp: 297940

Ion Ratio Lower Upper

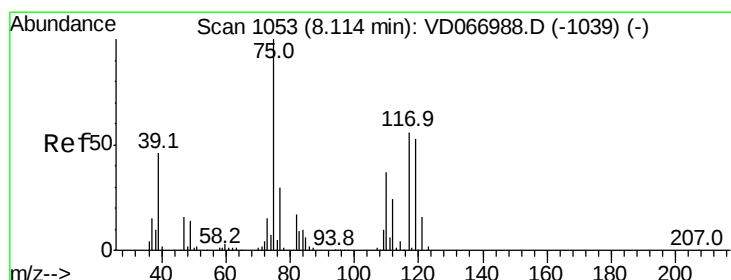
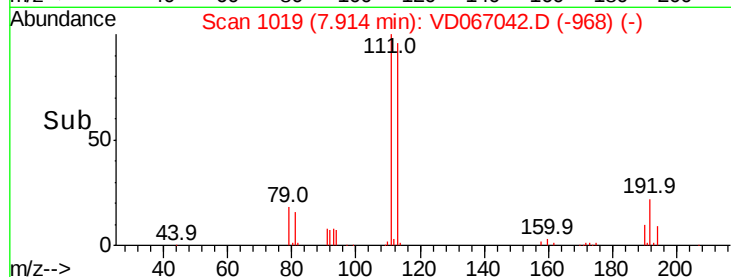
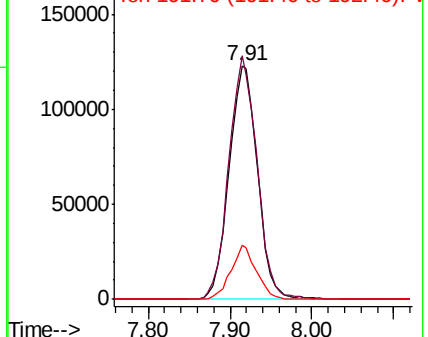
113 100

111 103.2 83.0 124.4

192 20.5 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: 4.651 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067042.D

Acq: 02 Oct 2020 18:15

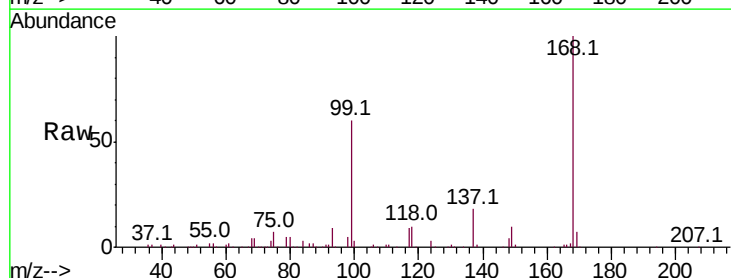
Tgt Ion: 75 Resp: 41221

Ion Ratio Lower Upper

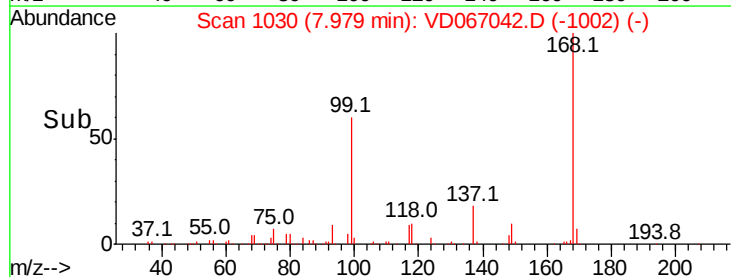
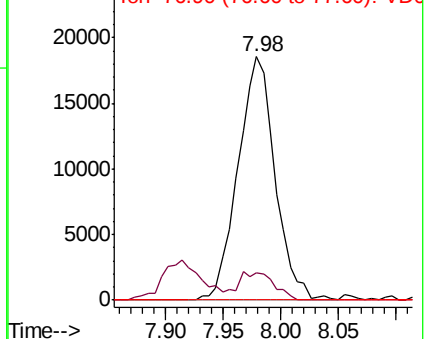
75 100

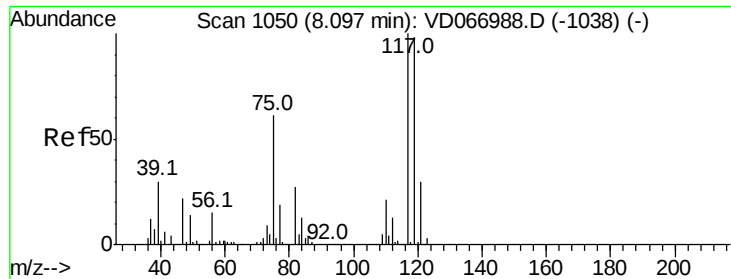
110 11.3 18.4 55.0#

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

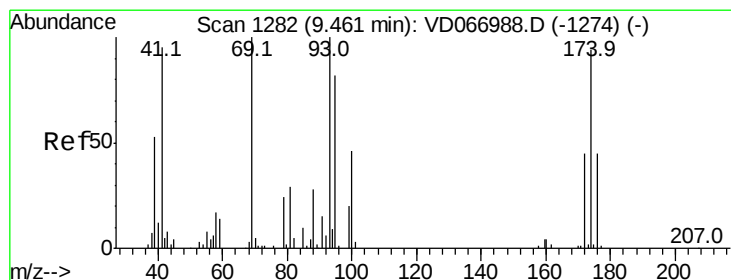
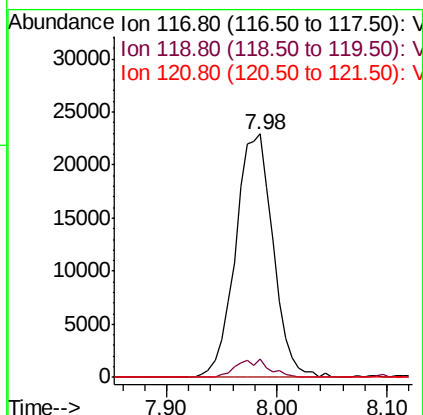
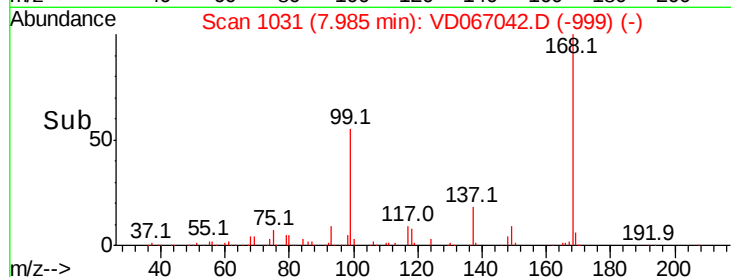
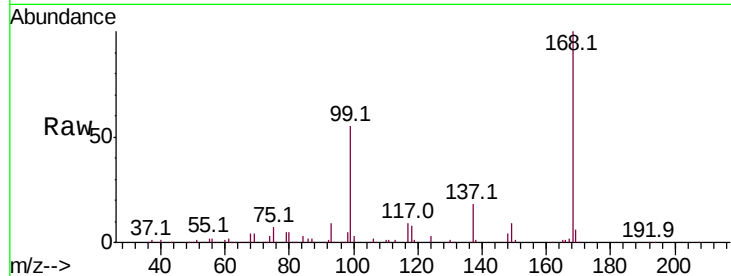




#38
Carbon Tetrachloride
Concen: 5.710 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD067042.D
Acq: 02 Oct 2020 18:15

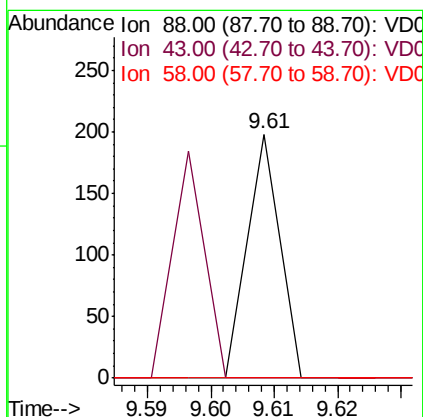
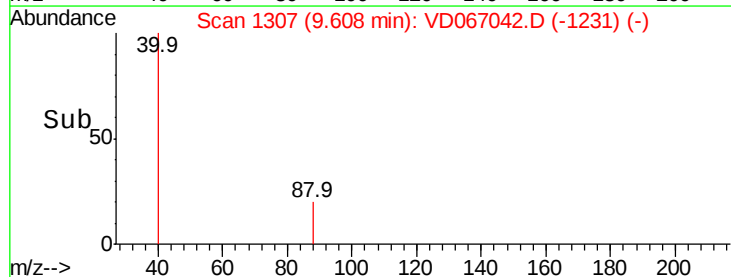
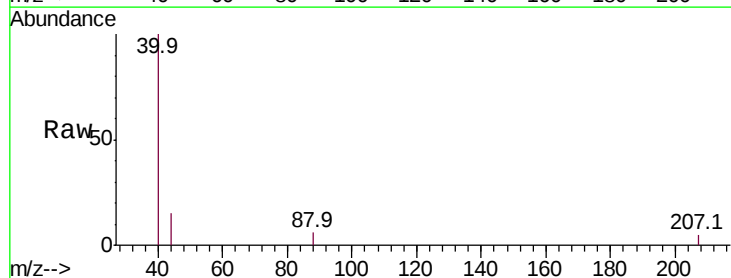
Instrument :
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ClientSampled :
RO-19

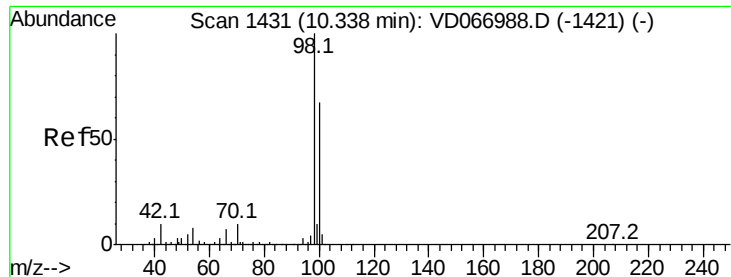
Tot Ion:117 Resp: 54751
Ion Ratio Lower Upper
117 100
119 7.5 78.7 118.1#
121 0.0 24.2 36.2#



#49
1,4-Dioxane
Concen: 2.018 ug/l
RT: 9.61 min Scan# 1307
Delta R.T. 0.15 min
Lab File: VD067042.D
Acq: 02 Oct 2020 18:15

Tgt Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 92.9 25.6 38.4#
58 0.0 53.5 80.3#





#50

Toluene-d8

Concen: 49.392 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067042.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

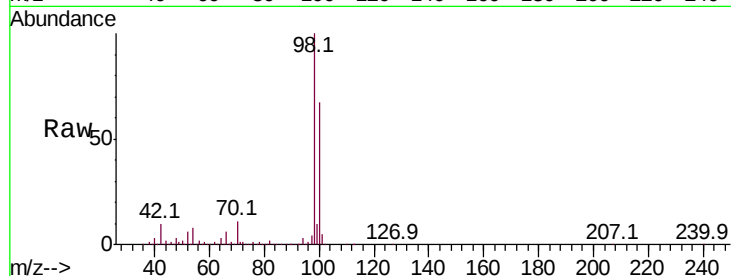
RO-19

Tot Ion: 98 Resp: 1120337

Ion Ratio Lower Upper

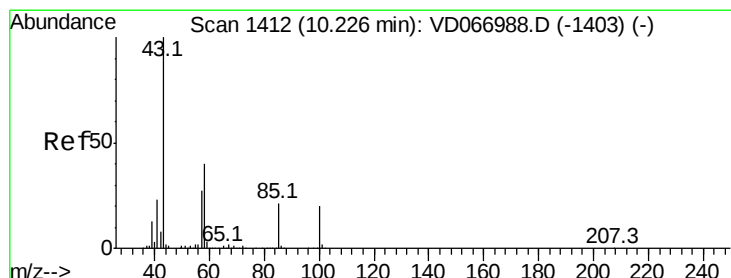
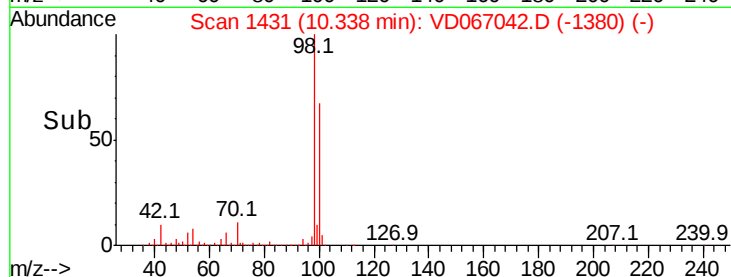
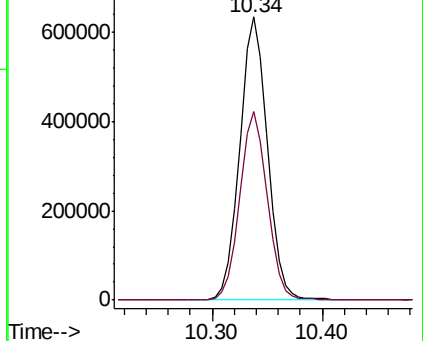
98 100

100 66.4 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.442 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD067042.D

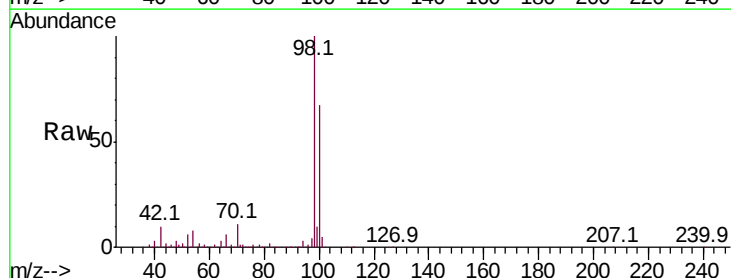
Acq: 02 Oct 2020 18:15

Tgt Ion: 43 Resp: 4062

Ion Ratio Lower Upper

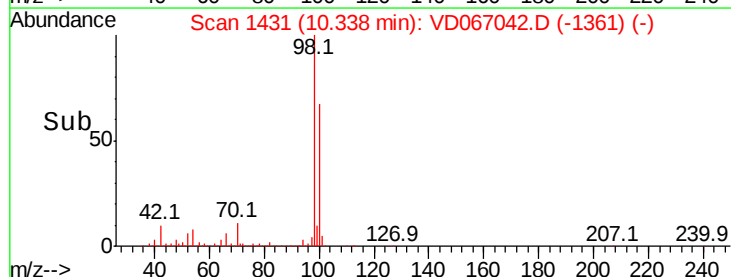
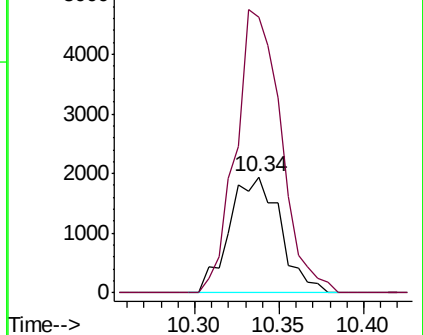
43 100

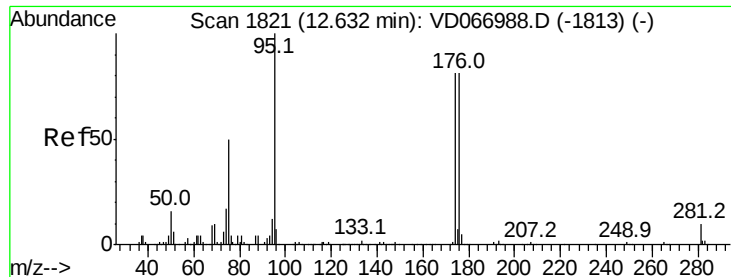
58 218.1 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

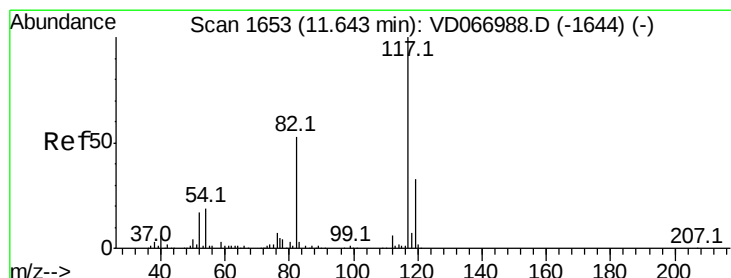
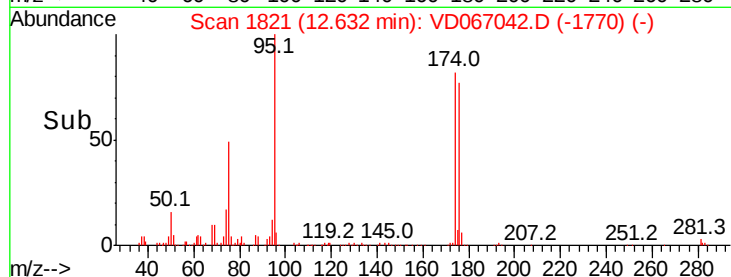
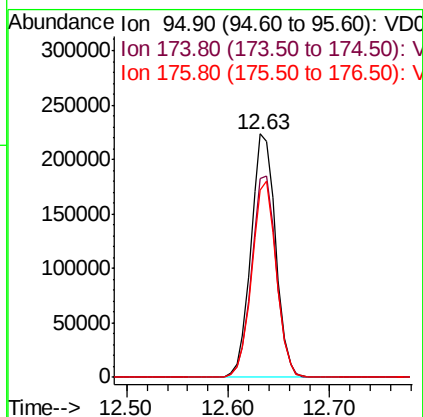
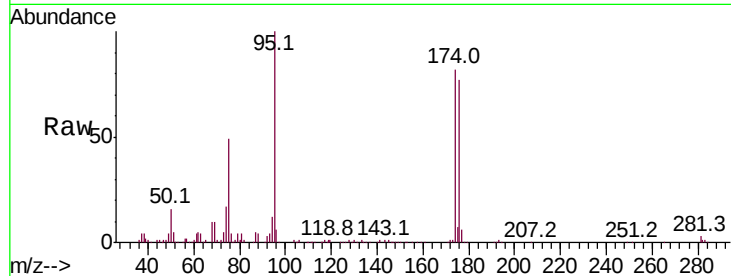




#62
4-Bromofluorobenzene
Concen: 48.844 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD067042.D
Acq: 02 Oct 2020 18:15

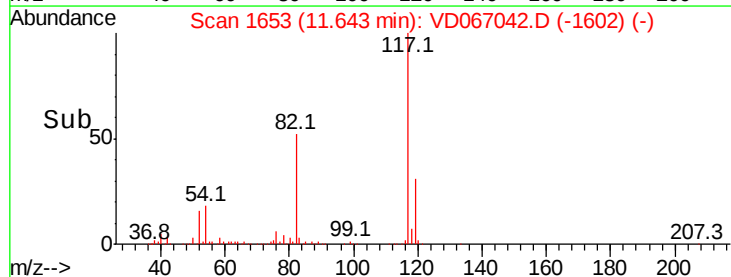
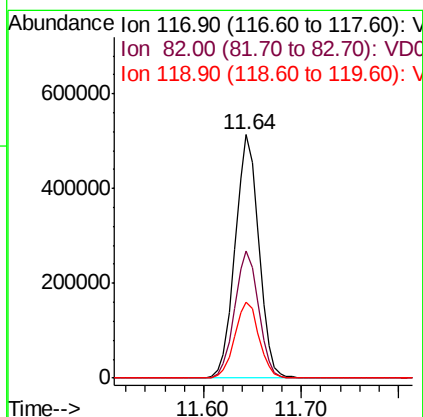
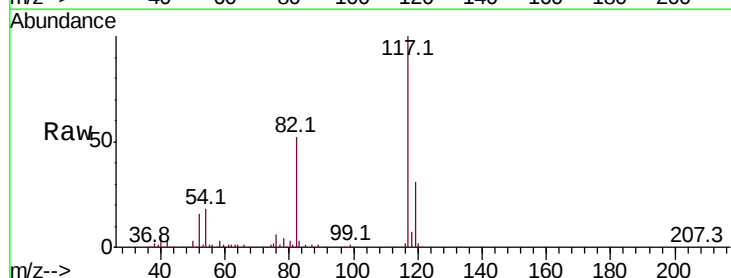
Instrument :
MSVOA_D
ClientSampleId :
RO-19

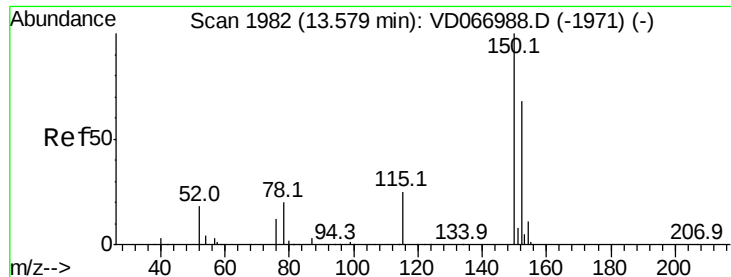
Tot Ion: 95 Resp: 376104
Ion Ratio Lower Upper
95 100
174 82.7 0.0 167.6
176 79.7 0.0 162.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067042.D
Acq: 02 Oct 2020 18:15

Tgt Ion: 117 Resp: 866887
Ion Ratio Lower Upper
117 100
82 52.3 42.6 63.8
119 31.4 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: VD067042.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

RO-19

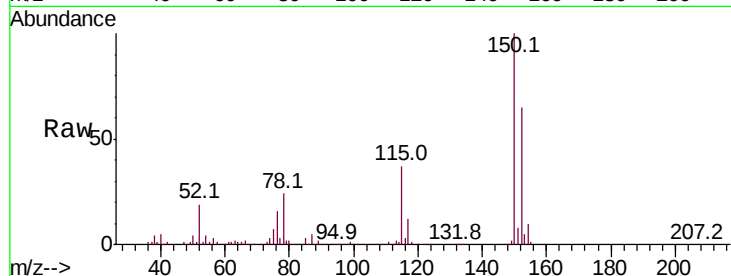
Tot Ion:152 Resp: 405751

Ion Ratio Lower Upper

152 100

115 58.5 29.6 88.8

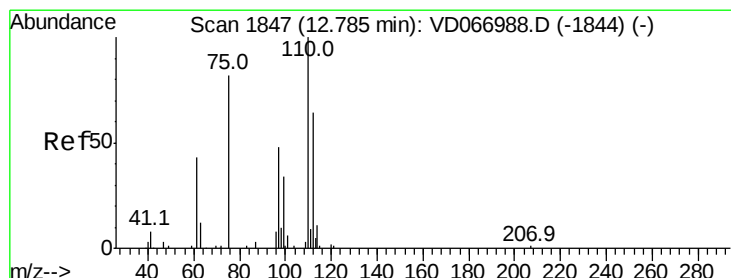
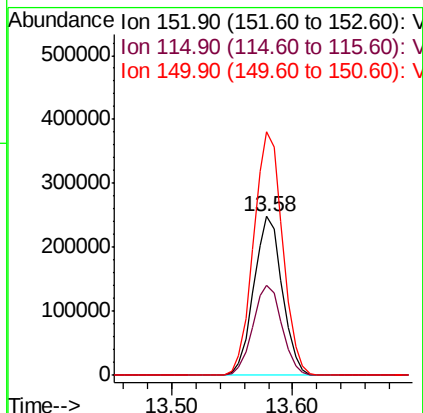
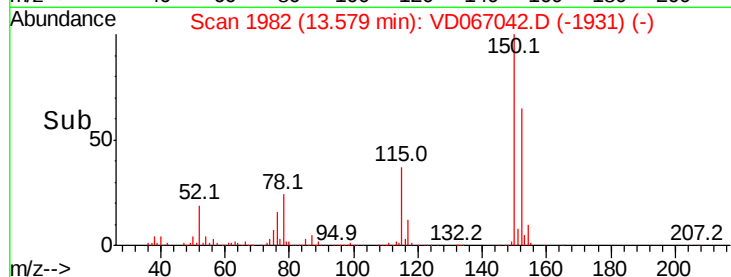
150 156.7 0.0 344.8



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: 52.359 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067042.D

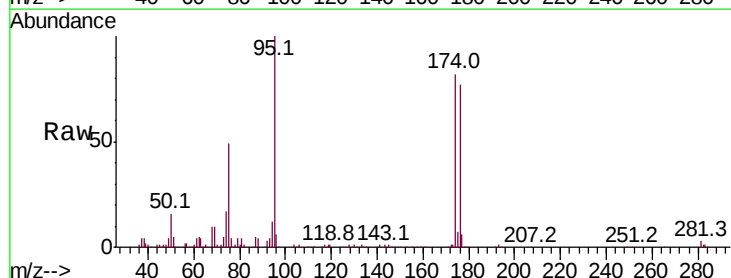
Acq: 02 Oct 2020 18:15

Tgt Ion: 75 Resp: 185050

Ion Ratio Lower Upper

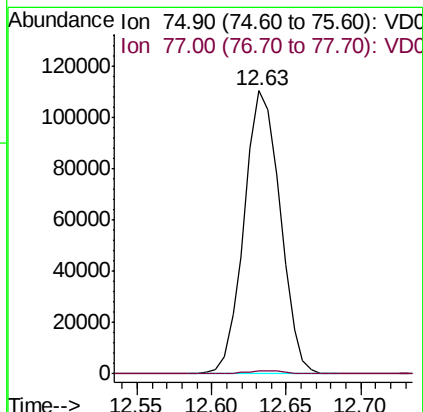
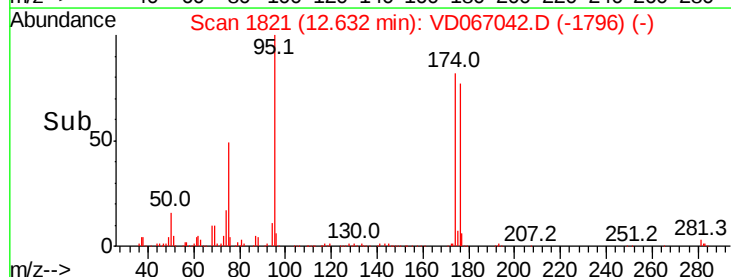
75 100

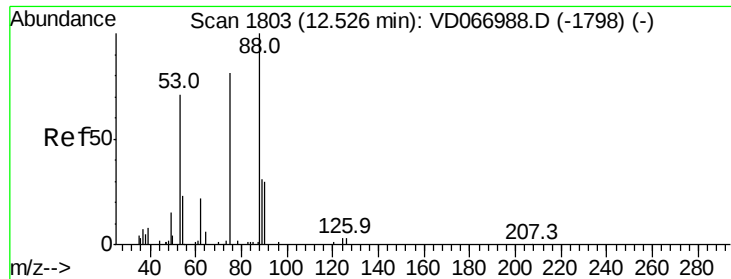
77 1.4 0.0 0.0#



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: 130.539 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067042.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

RO-19

Tot Ion: 75 Resp: 185050

Ion Ratio Lower Upper

75 100

53 0.2 73.8 110.6#

89 0.1 38.9 58.3#

