

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\
 Data File : VD067016.D
 Acq On : 02 Oct 2020 03:19
 Operator : VA/SY
 Sample : L4198-31
 Misc : 6.83G/5.00ml/MSVOA D/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-4

Quant Time: Oct 02 04:14:10 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	485252	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	831259	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	748620	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	332275	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	248605	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	
35) Dibromofluoromethane	7.91	113	267135	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	
50) Toluene-d8	10.34	98	982809	49.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.12%	
62) 4-Bromofluorobenzene	12.63	95	312048	46.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.70%	

Target Compounds

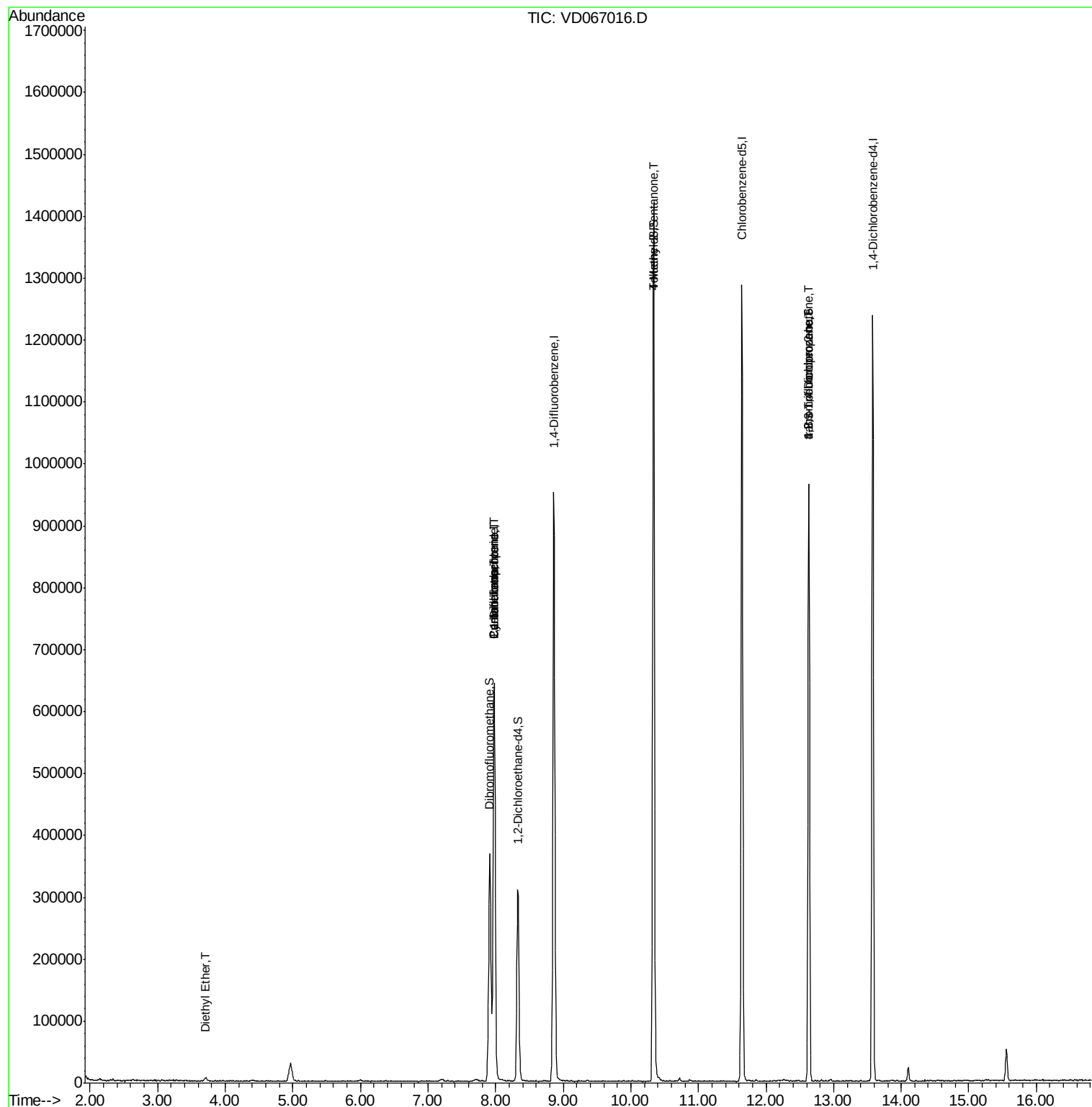
						Qvalue
2) Dichlorodifluoromethane	1.99	85	387	Below Cal	#	40
5) Bromomethane	2.77	94	411	Below Cal	#	3
8) Diethyl Ether	3.71	74	3424	1.604	ug/l	97
11) Tert butyl alcohol	5.21	59	311	Below Cal	#	72
20) Methylene Chloride	4.96	84	24660	Below Cal		88
26) 2,2-Dichloropropane	7.22	77	108	Below Cal	#	53
31) Cyclohexane	7.97	56	9461	1.348	ug/l #	29
36) 1,1-Dichloropropene	7.97	75	35497	4.581	ug/l #	51
38) Carbon Tetrachloride	7.97	117	50864	6.067	ug/l #	14
51) 4-Methyl-2-Pentanone	10.33	43	3956	1.606	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	156188	53.965	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	156188	134.543	ug/l #	12

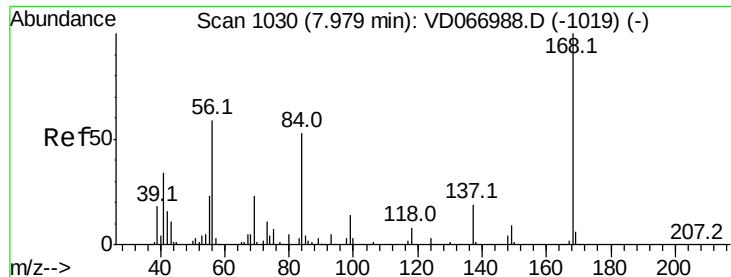
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VD067016.D

Acq: 02 Oct 2020 03:19

Instrument :

MSVOA_D

ClientSampleId :

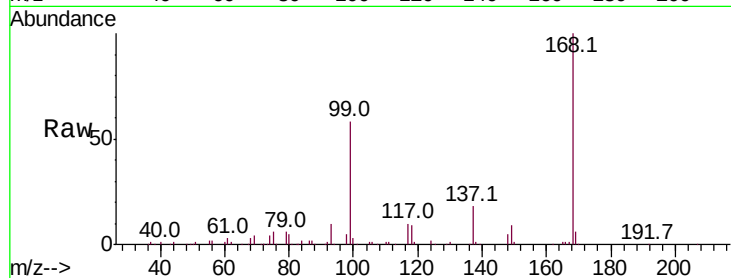
RO-4

Tot Ion:168 Resp: 485252

Ion Ratio Lower Upper

168 100

99 58.4 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

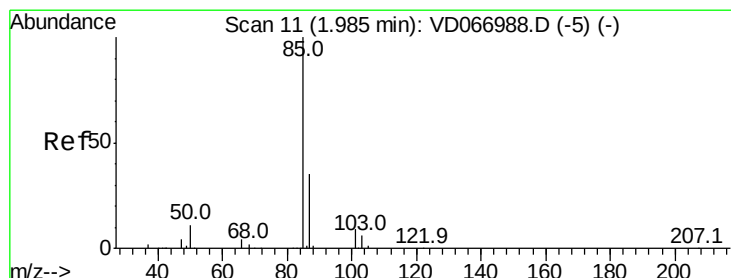
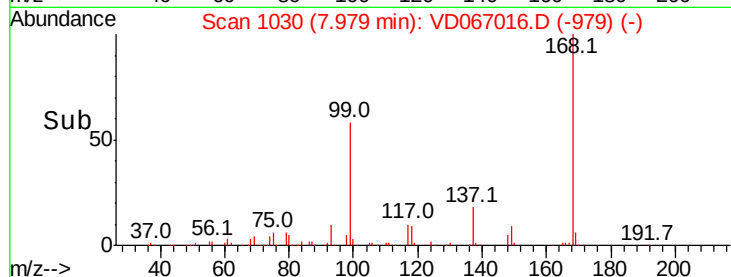
150000

100000

50000

0

Time--> 7.85 7.90 7.95 8.00 8.05



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067016.D

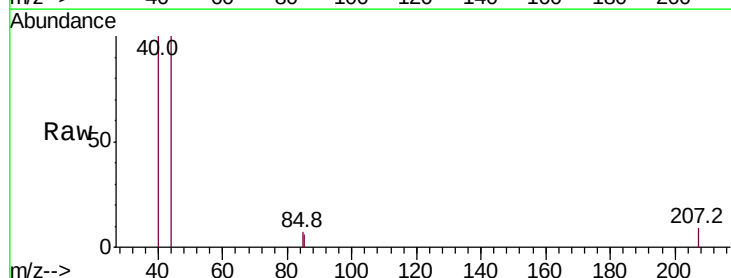
Acq: 02 Oct 2020 03:19

Tgt Ion: 85 Resp: 387

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

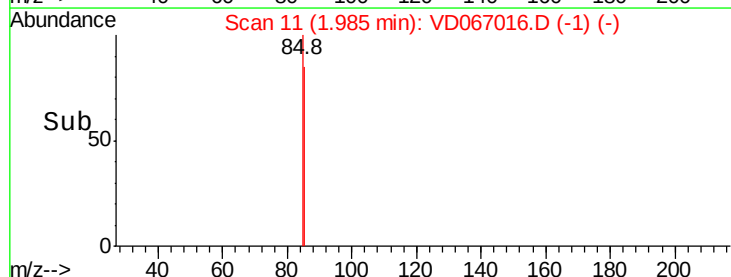
300

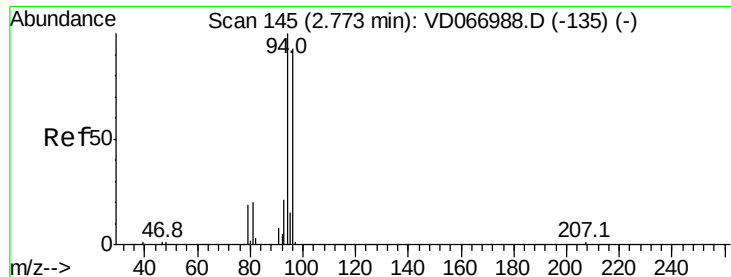
200

100

0

Time--> 1.96 1.98 2.00





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067016.D

Acq: 02 Oct 2020 03:19

Instrument :

MSVOA_D

ClientSampleId :

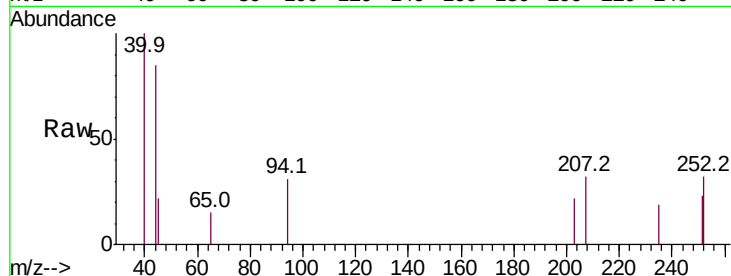
RO-4

Tot Ion: 94 Resp: 411

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

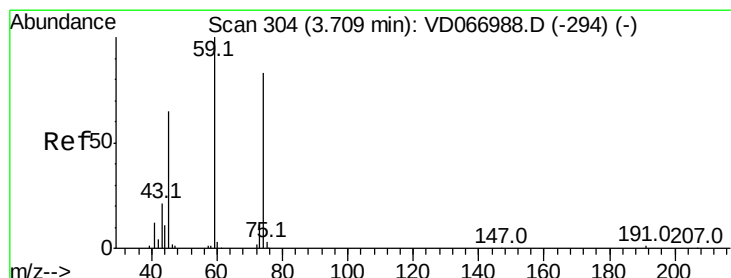
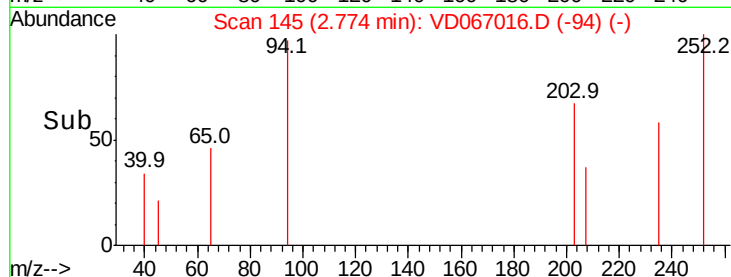
300

200

100

0

Time-->



#8

Diethyl Ether

Concen: 1.604 ug/l

RT: 3.71 min Scan# 304

Delta R.T. 0.00 min

Lab File: VD067016.D

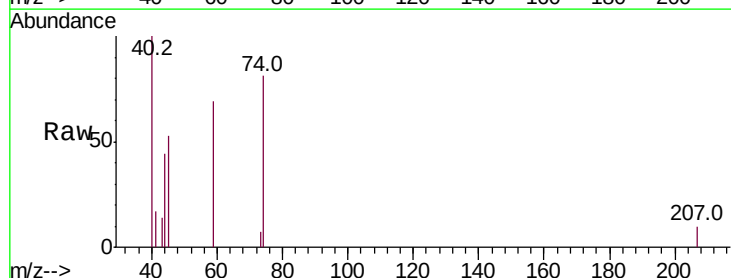
Acq: 02 Oct 2020 03:19

Tgt Ion: 74 Resp: 3424

Ion Ratio Lower Upper

74 100

45 89.2 43.1 129.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

3.71

2000

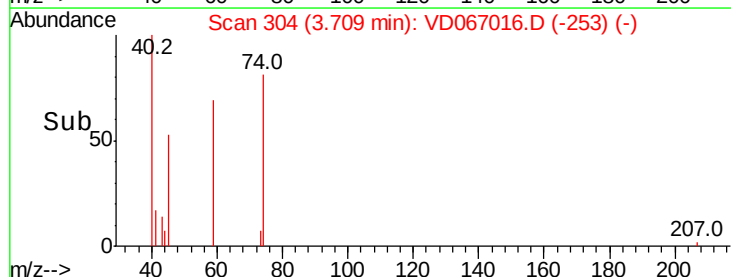
1500

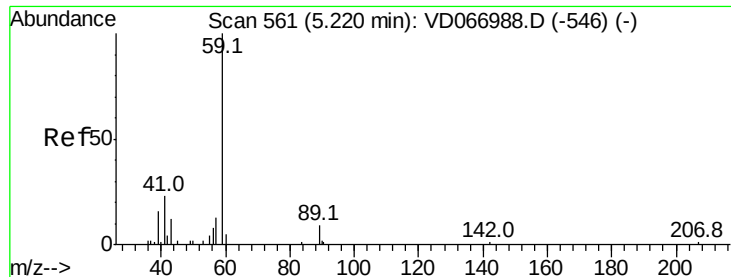
1000

500

0

Time-->



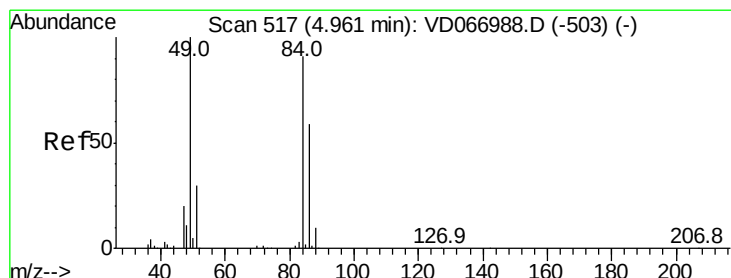
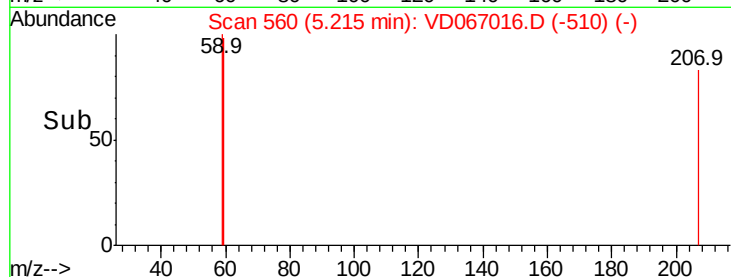
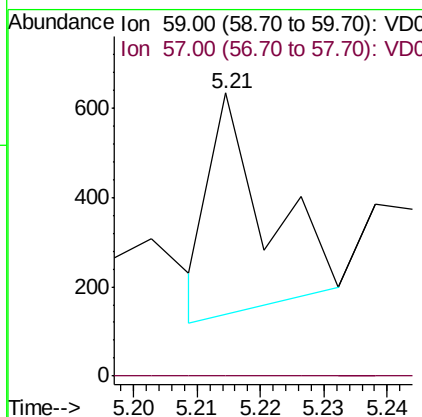
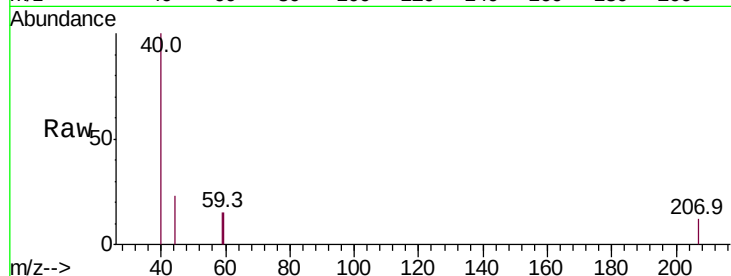


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.21 min Scan# 560
 Delta R.T. -0.01 min
 Lab File: VD067016.D
 Acq: 02 Oct 2020 03:19

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-4

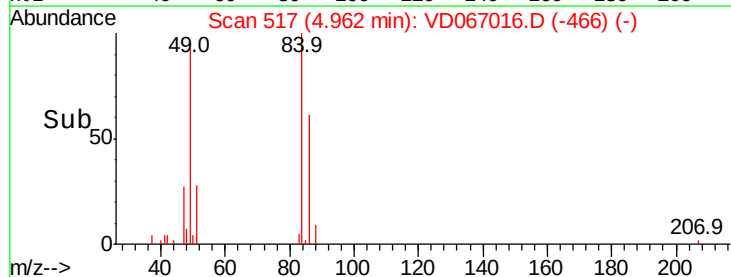
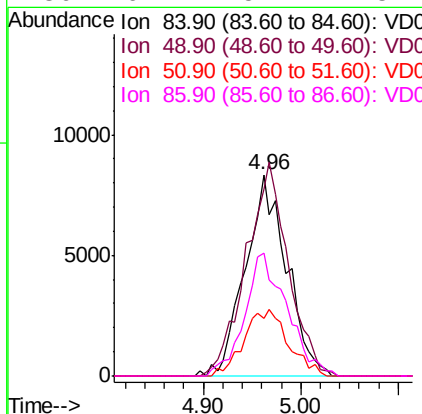
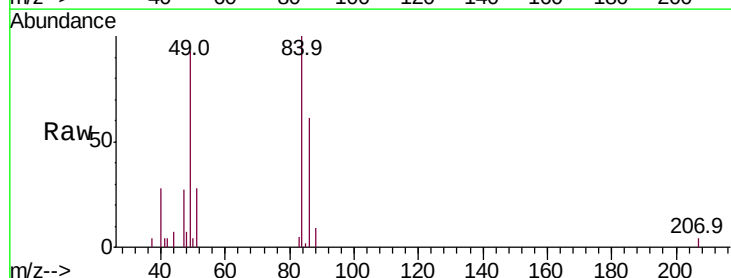
Tot Ion: 59 Resp: 311
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

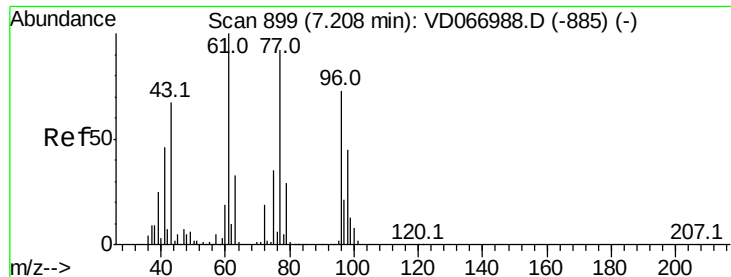


#20

Methylene Chloride
 Concen: Below Cal
 RT: 4.96 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VD067016.D
 Acq: 02 Oct 2020 03:19

Tgt Ion: 84 Resp: 24660
 Ion Ratio Lower Upper
 84 100
 49 93.0 88.2 132.2
 51 28.3 26.6 39.8
 86 61.2 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: VD067016.D

Acq: 02 Oct 2020 03:19

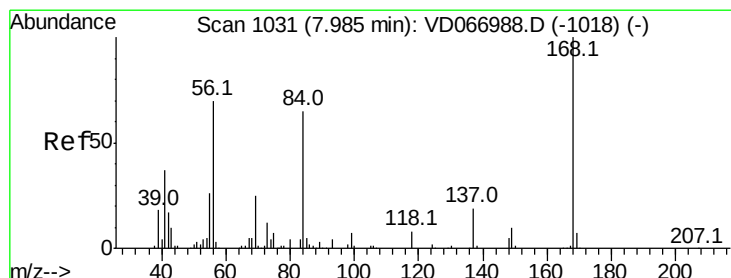
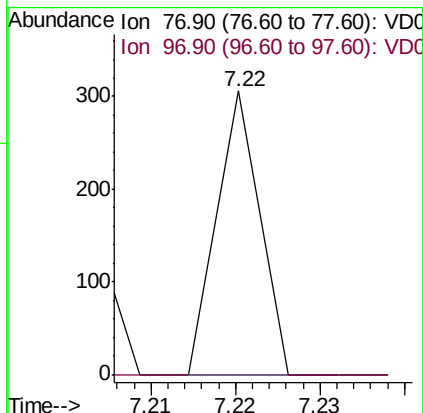
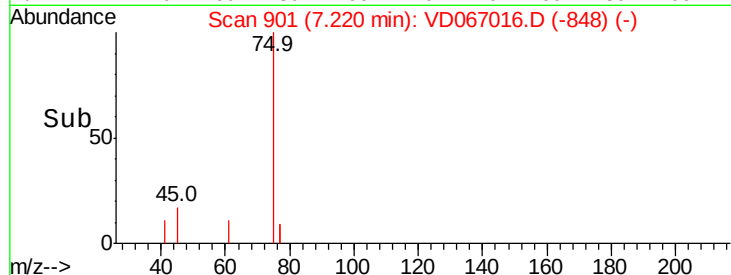
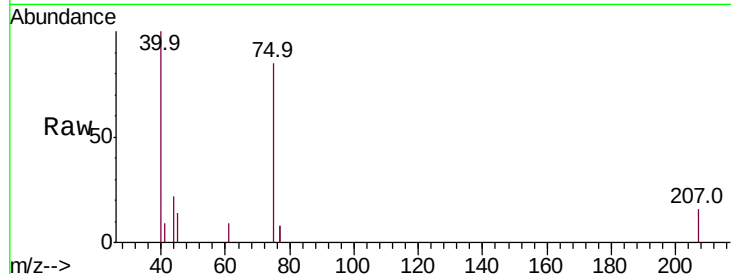
Instrument :
MSVOA_D
ClientSampleId :
RO-4

Tot Ion: 77 Resp: 108

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



#31

Cyclohexane

Concen: 1.348 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD067016.D

Acq: 02 Oct 2020 03:19

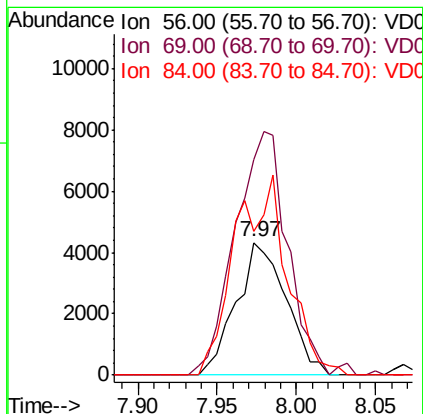
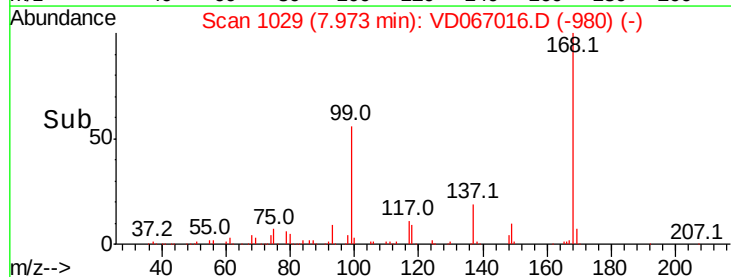
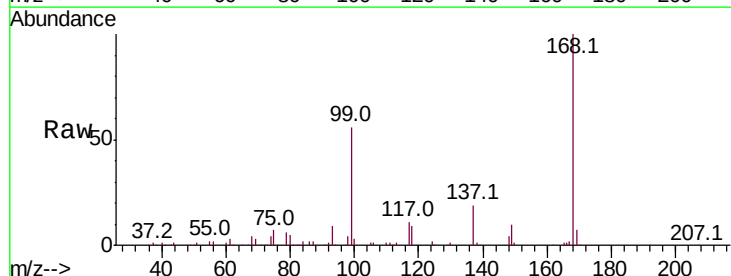
Tgt Ion: 56 Resp: 9461

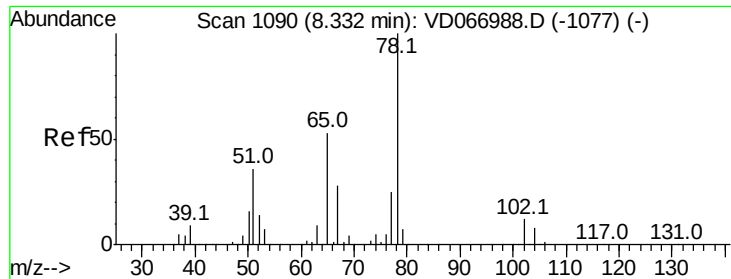
Ion Ratio Lower Upper

56 100

69 161.8 29.0 43.6#

84 107.9 74.2 111.2

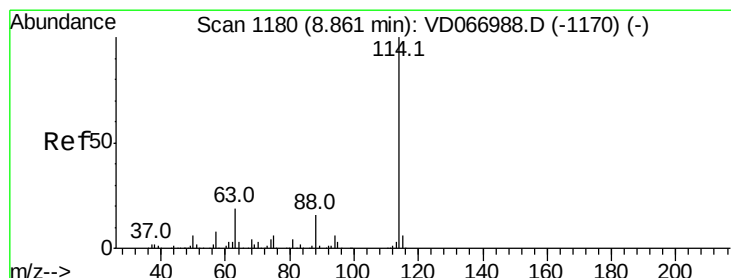
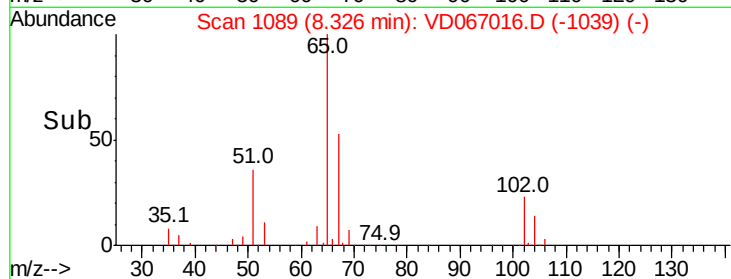
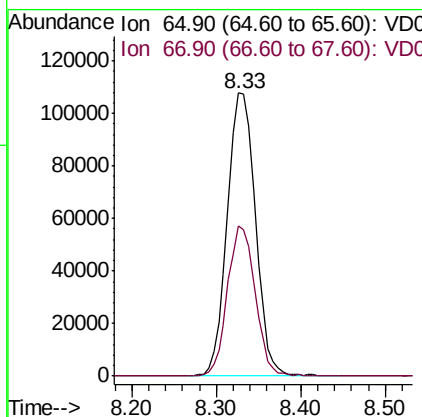
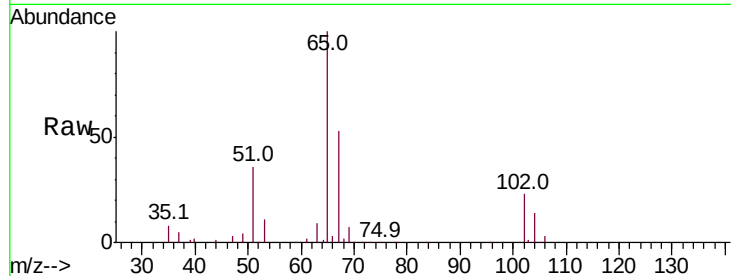




#33
 1,2-Dichloroethane-d4
 Concen: 53.190 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: VD067016.D
 Acq: 02 Oct 2020 03:19

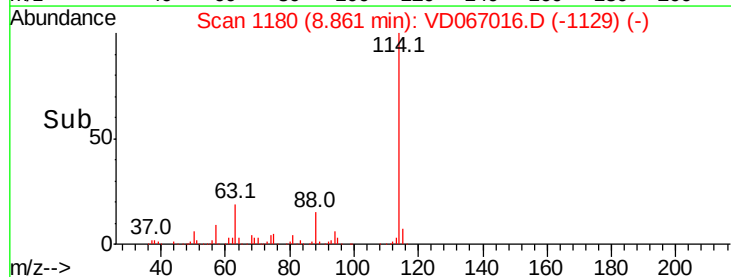
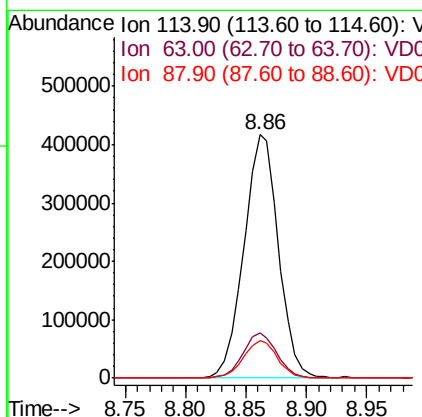
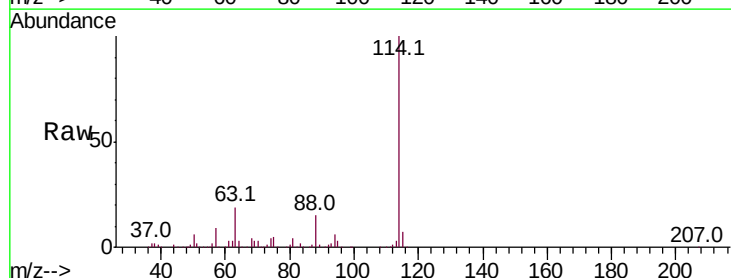
Instrument :
 MSVOA_D
 ClientSampleId :
 RO-4

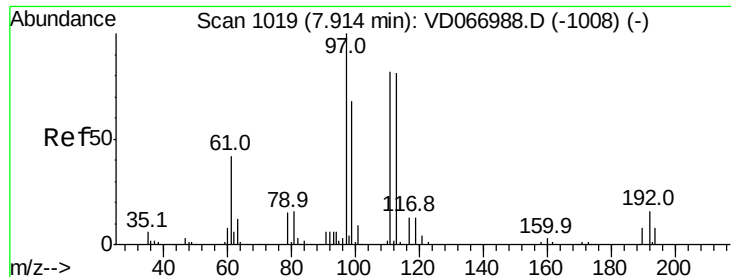
Tot Ion: 65 Resp: 248605
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD067016.D
 Acq: 02 Oct 2020 03:19

Tgt Ion: 114 Resp: 831259
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.4
 88 15.3 0.0 31.2

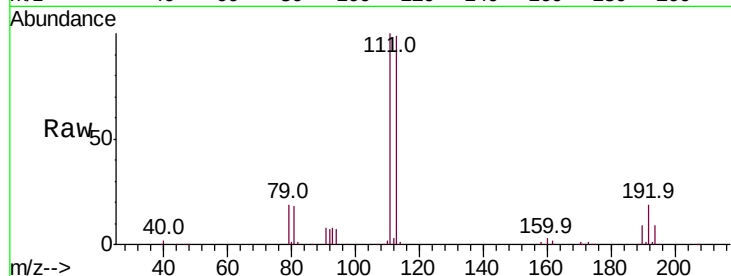




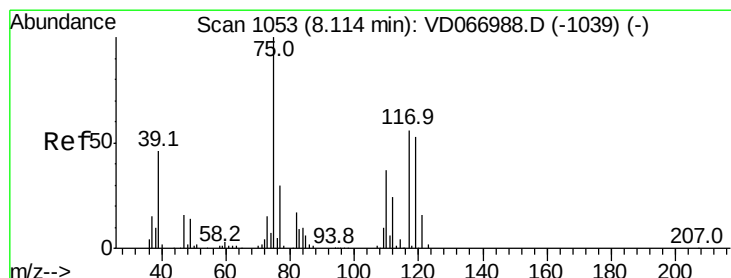
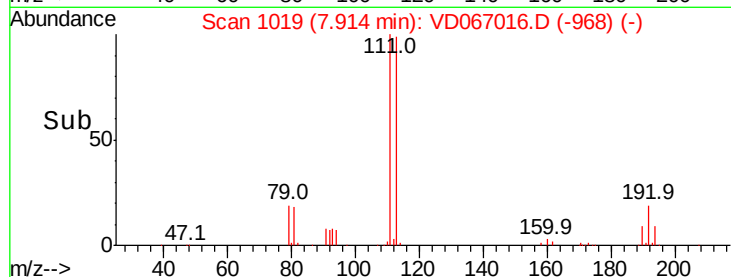
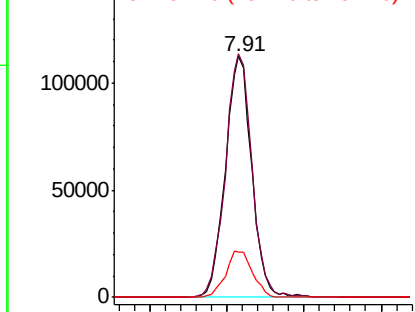
#35
 Dibromofluoromethane
 Concen: 49.087 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD067016.D
 Acq: 02 Oct 2020 03:19

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-4

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	83.0	124.4
192	19.9	15.5	23.3

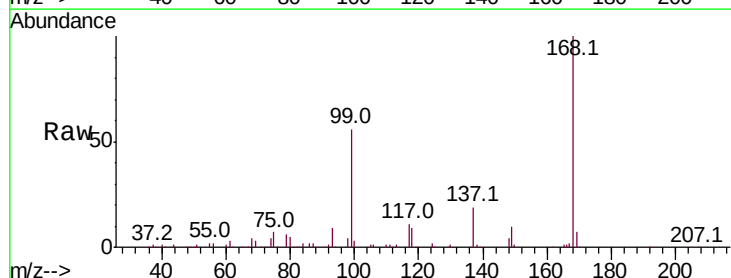


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

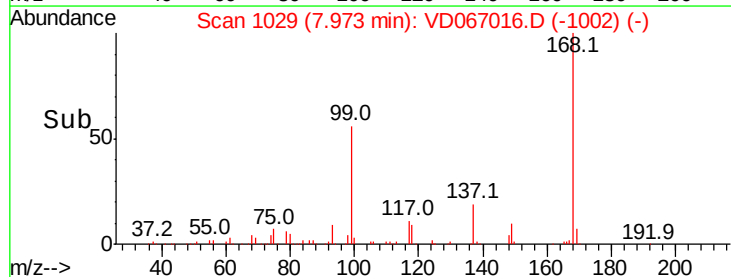
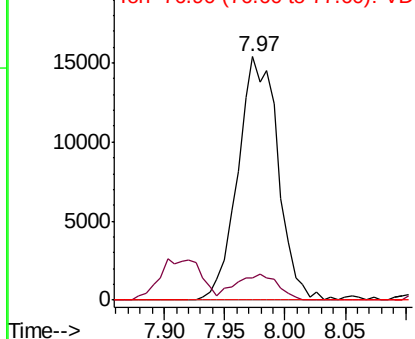


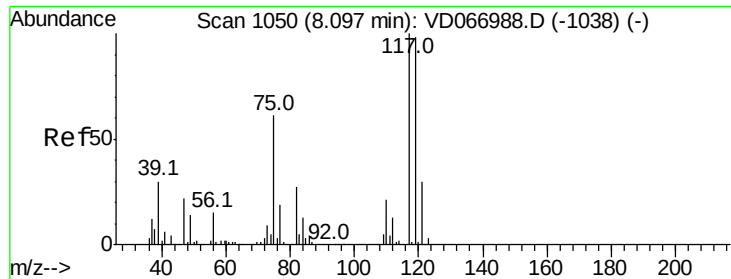
#36
 1,1-Dichloropropene
 Concen: 4.581 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD067016.D
 Acq: 02 Oct 2020 03:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	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: 6.067 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD067016.D

Acq: 02 Oct 2020 03:19

Instrument :

MSVOA_D

ClientSampleId :

RO-4

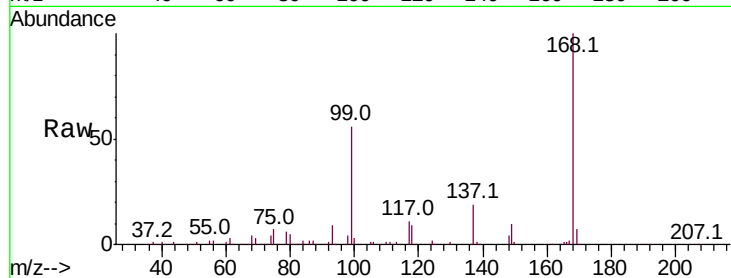
Tot Ion:117 Resp: 50864

Ion Ratio Lower Upper

117 100

119 4.3 78.7 118.1#

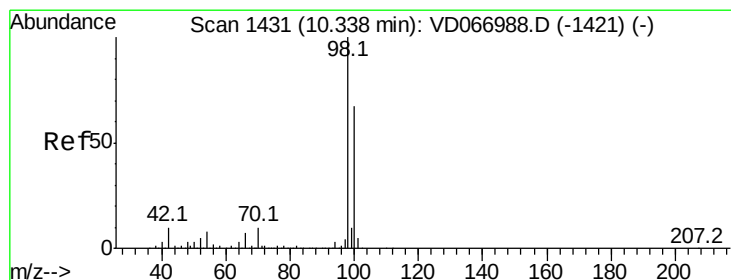
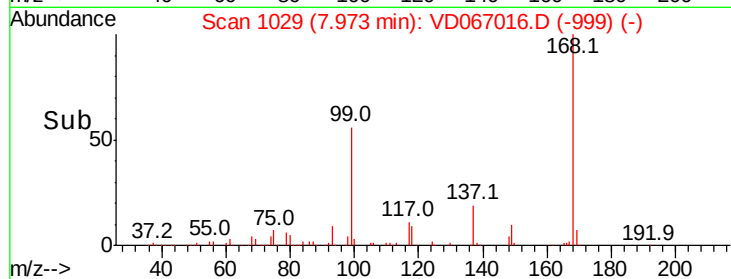
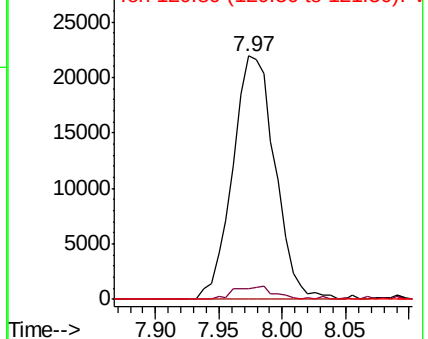
121 0.0 24.2 36.2#



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: 49.561 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067016.D

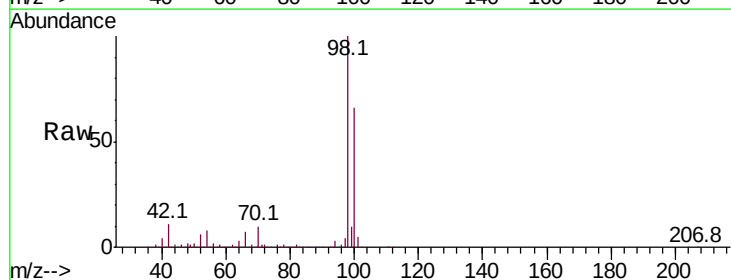
Acq: 02 Oct 2020 03:19

Tgt Ion: 98 Resp: 982809

Ion Ratio Lower Upper

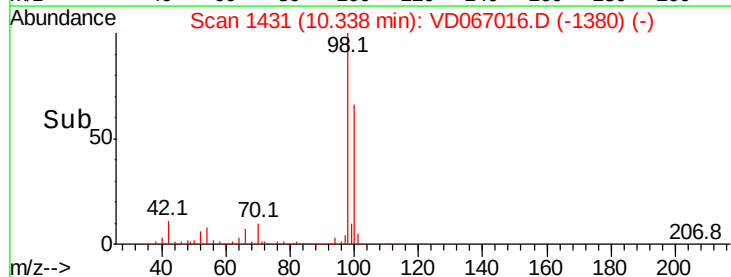
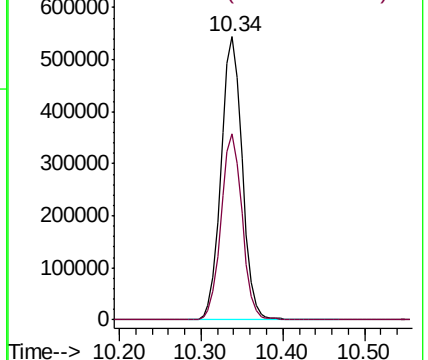
98 100

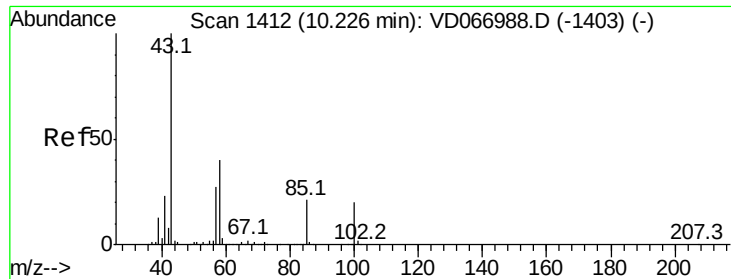
100 65.1 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

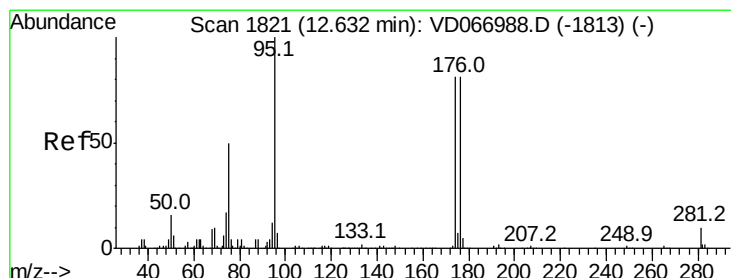
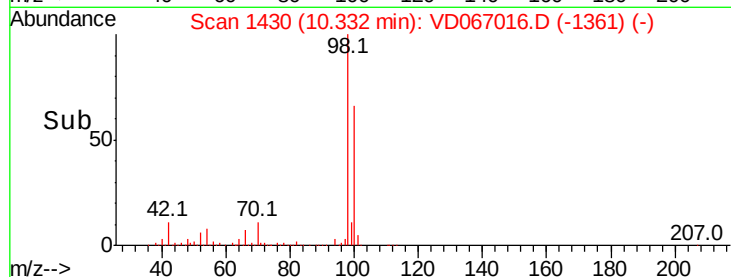
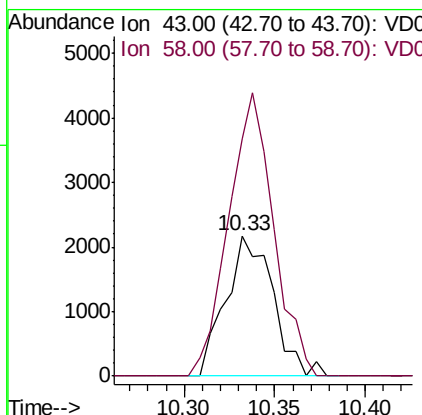
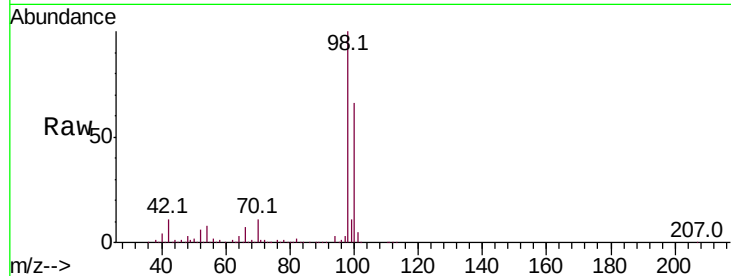




#51
4-Methyl-2-Pentanone
Concen: 1.606 ug/l
RT: 10.33 min Scan# 1430
Delta R.T. 0.11 min
Lab File: VD067016.D
Acq: 02 Oct 2020 03:19

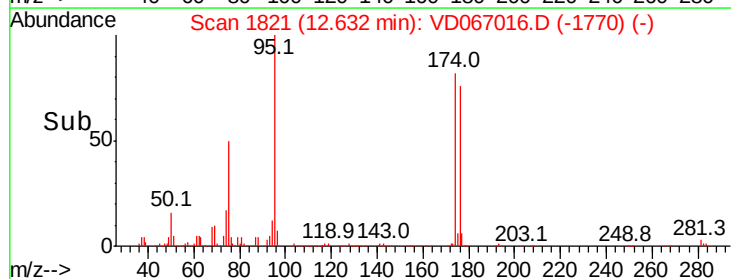
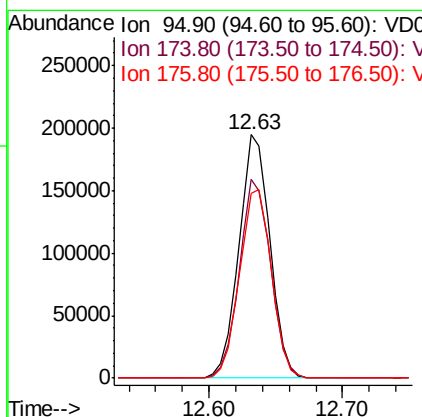
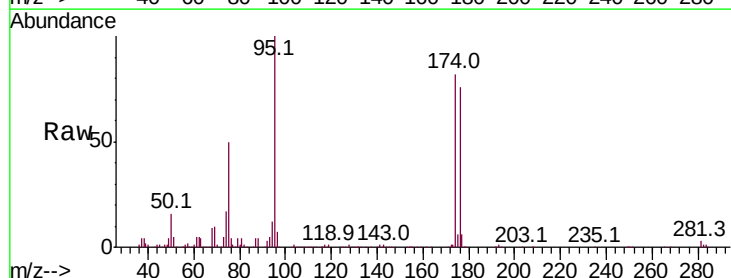
Instrument :
MSVOA_D
ClientSampleId :
RO-4

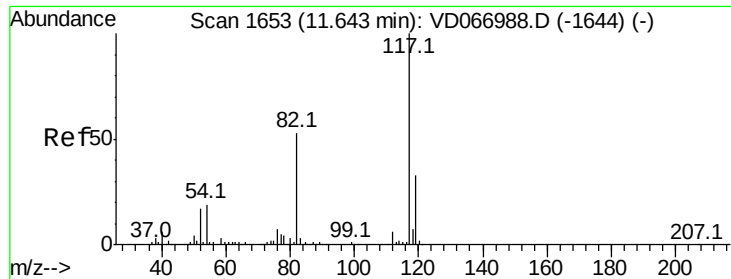
Tot Ion: 43 Resp: 3956
Ion Ratio Lower Upper
43 100
58 191.0 33.8 50.8#



#62
4-Bromofluorobenzene
Concen: 46.353 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD067016.D
Acq: 02 Oct 2020 03:19

Tgt Ion: 95 Resp: 312048
Ion Ratio Lower Upper
95 100
174 82.3 0.0 167.6
176 79.6 0.0 162.4

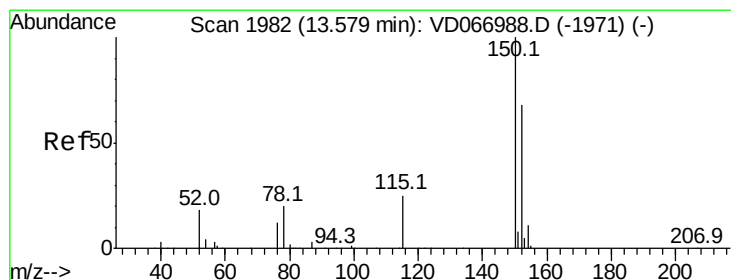
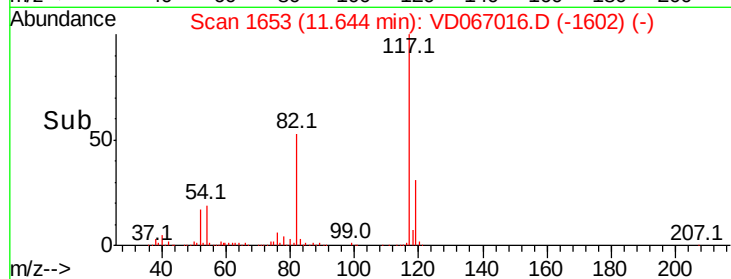
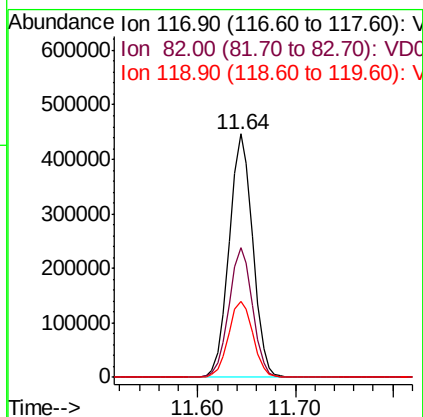
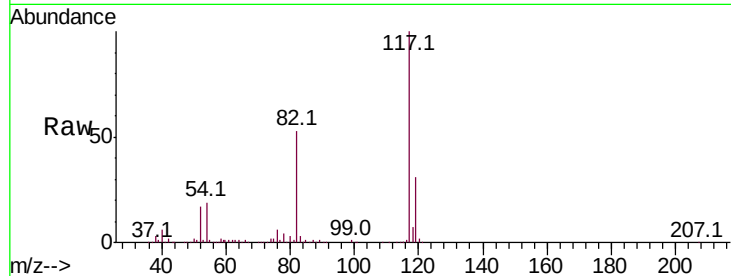




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067016.D
Acq: 02 Oct 2020 03:19

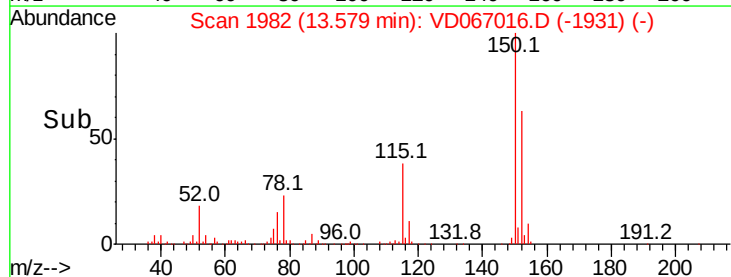
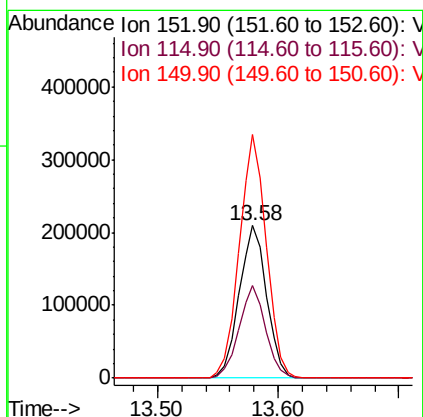
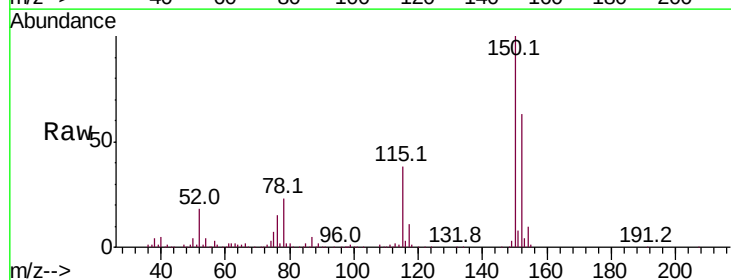
Instrument :
MSVOA_D
ClientSampled :
RO-4

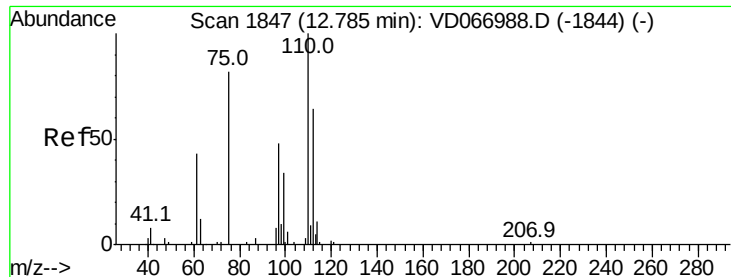
Tot Ion:117 Resp: 748620
Ion Ratio Lower Upper
117 100
82 53.5 42.6 63.8
119 31.4 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067016.D
Acq: 02 Oct 2020 03:19

Tgt Ion:152 Resp: 332275
Ion Ratio Lower Upper
152 100
115 58.5 29.6 88.8
150 156.6 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 53.965 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067016.D

Acq: 02 Oct 2020 03:19

Instrument :

MSVOA_D

ClientSampled :

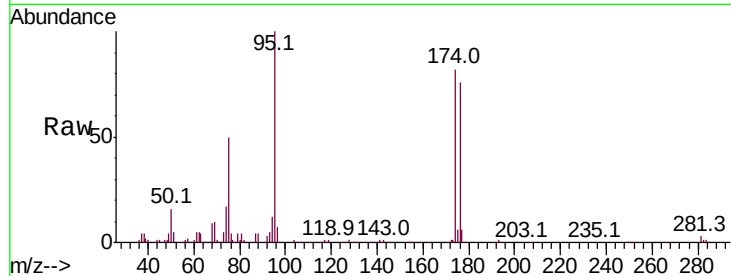
RO-4

Tot Ion: 75 Resp: 156188

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.63

100000

80000

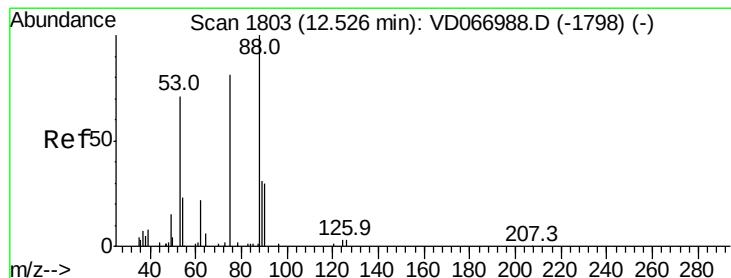
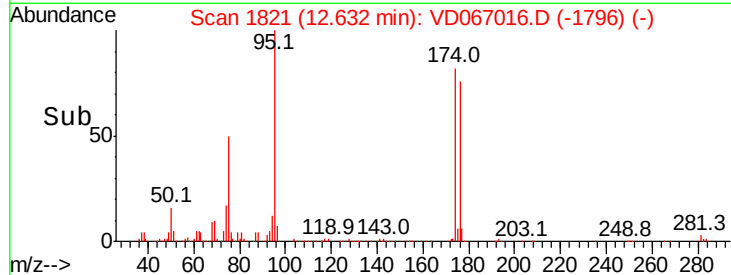
60000

40000

20000

0

Time--> 12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 134.543 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067016.D

Acq: 02 Oct 2020 03:19

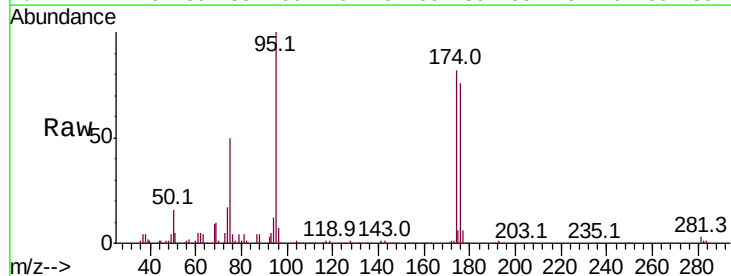
Tgt Ion: 75 Resp: 156188

Ion Ratio Lower Upper

75 100

53 0.1 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

12.63

120000

100000

80000

60000

40000

20000

0

Time--> 12.55 12.60 12.65 12.70

