

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091120\
 Data File : VD066659.D
 Acq On : 11 Sep 2020 20:09
 Operator : VA/SY
 Sample : L3981-10
 Misc : 13.23G/5.00ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 12 00:42:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

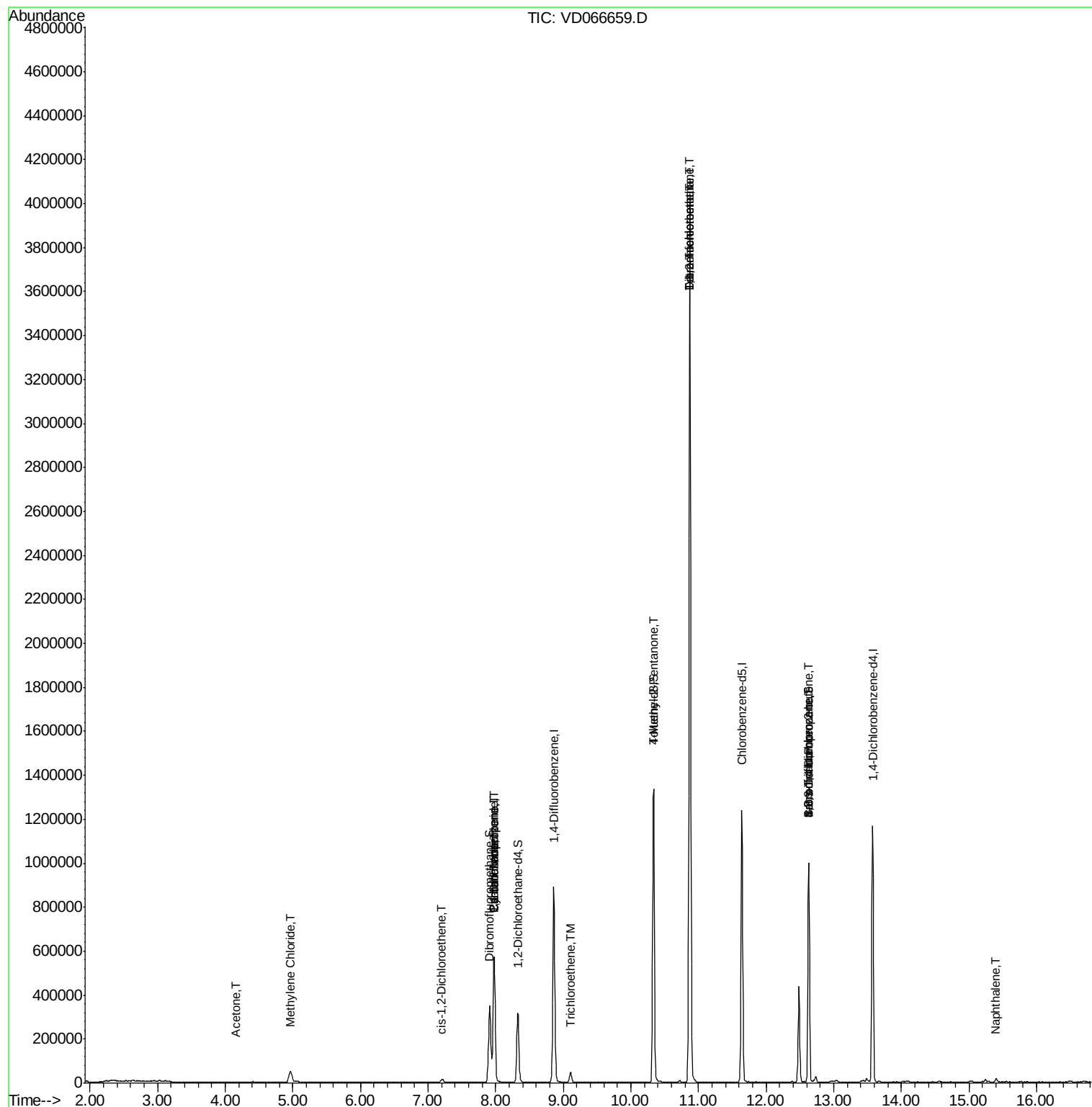
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	392937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	712860	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	674024	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	293269	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	255592	53.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.52%	
35) Dibromofluoromethane	7.91	113	246352	51.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.46%	
50) Toluene-d8	10.34	98	879580	51.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.34%	
62) 4-Bromofluorobenzene	12.63	95	312090	54.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.52%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	230	Below Cal	#	46
5) Bromomethane	2.76	94	61	Below Cal	#	9
16) Acetone	4.17	43	1440	1.646	ug/l	89
20) Methylene Chloride	4.97	84	38379	1.651	ug/l	97
27) cis-1,2-Dichloroethene	7.21	96	9033	1.787	ug/l	81
31) Cyclohexane	7.98	56	10800	1.392	ug/l #	11
36) 1,1-Dichloropropene	7.98	75	37828	5.099	ug/l #	51
38) Carbon Tetrachloride	7.98	117	45299	5.777	ug/l #	18
44) Trichloroethene	9.11	130	16754	3.144	ug/l	86
51) 4-Methyl-2-Pentanone	10.34	43	4917	1.722	ug/l #	1
55) 1,1,2-Trichloroethane	10.87	97	9064	2.501	ug/l #	22
60) Dibromochloromethane	10.87	129	814128	169.857	ug/l #	10
64) Tetrachloroethene	10.87	164	856295	188.685	ug/l	95
71) Bromoform	12.63	173	3174	1.186	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	177618	62.975	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	177618	147.024	ug/l #	6
95) Naphthalene	15.41	128	13011	1.477	ug/l #	95

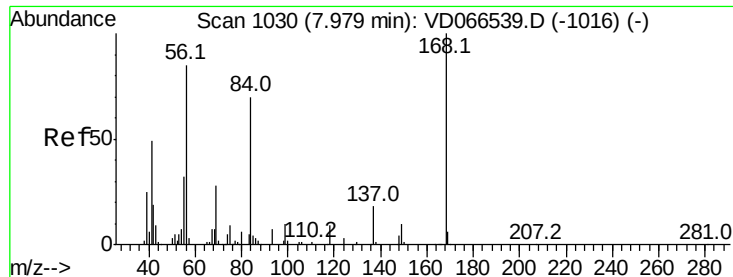
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066659.D

Acq: 11 Sep 2020 20:09

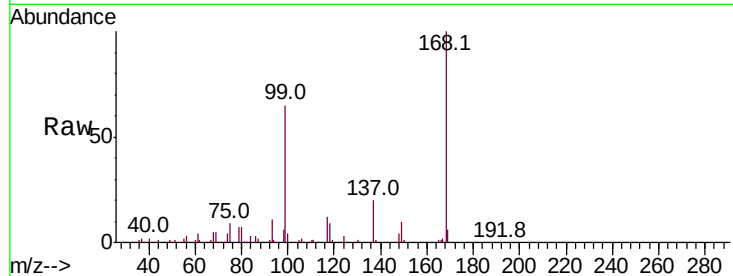
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 392937

Ion Ratio Lower Upper

168 100

99 64.9 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

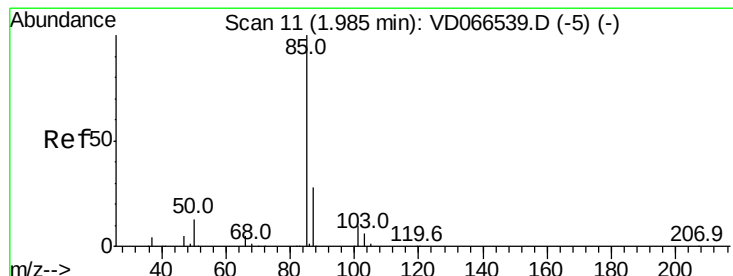
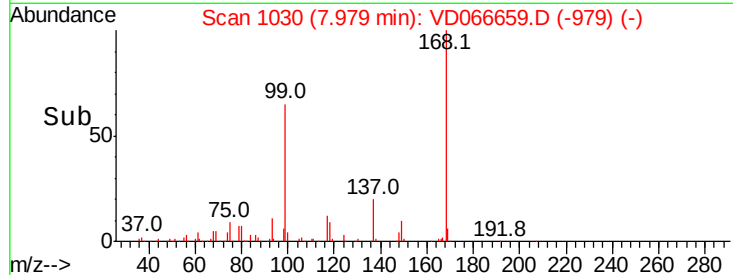
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066659.D

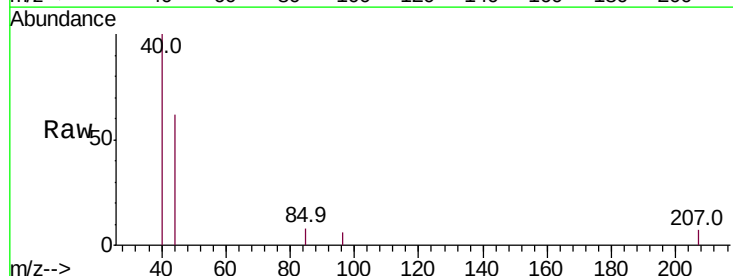
Acq: 11 Sep 2020 20:09

Tgt Ion: 85 Resp: 230

Ion Ratio Lower Upper

85 100

87 0.0 14.2 42.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

250

200

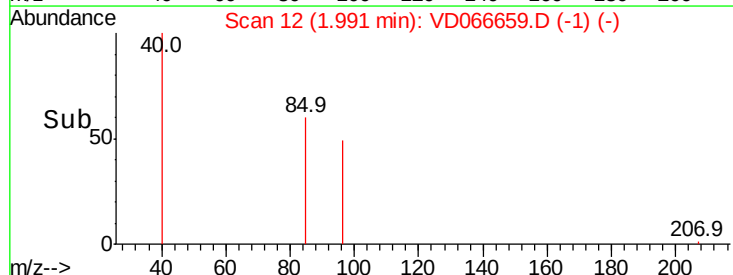
150

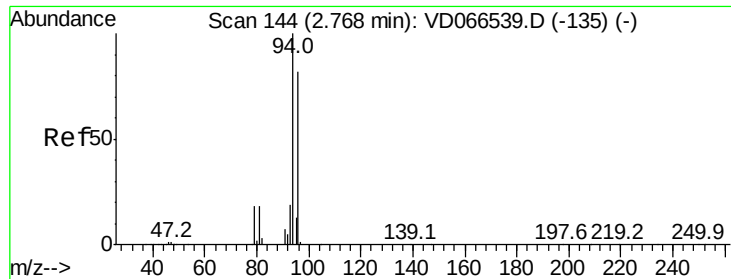
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD066659.D

Acq: 11 Sep 2020 20:09

Instrument :

MSVOA_D

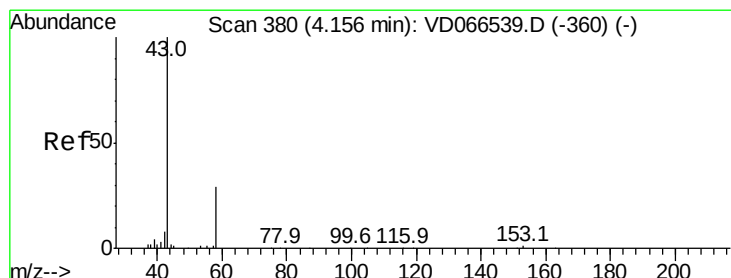
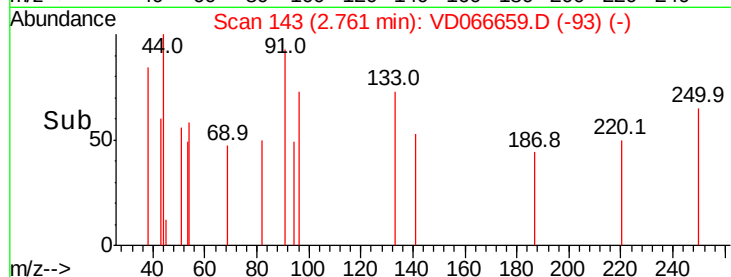
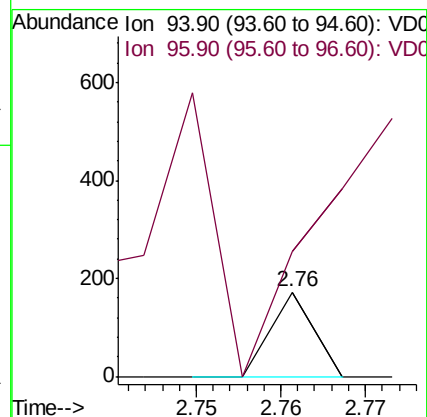
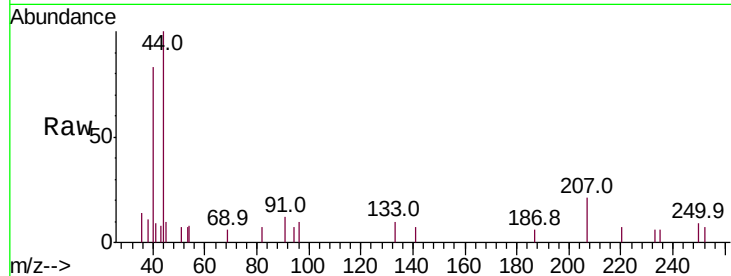
ClientSampleId :

Tot Ion: 94 Resp: 61

Ion Ratio Lower Upper

94 100

96 0.0 65.2 97.8#



#16

Acetone

Concen: 1.646 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD066659.D

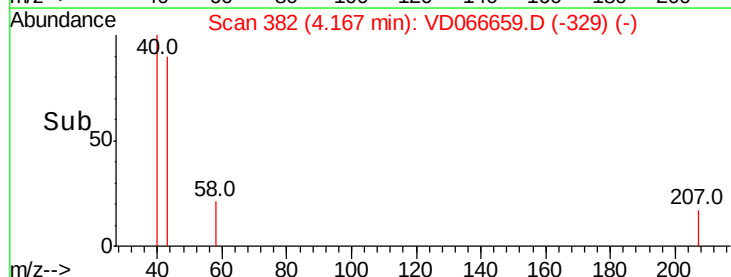
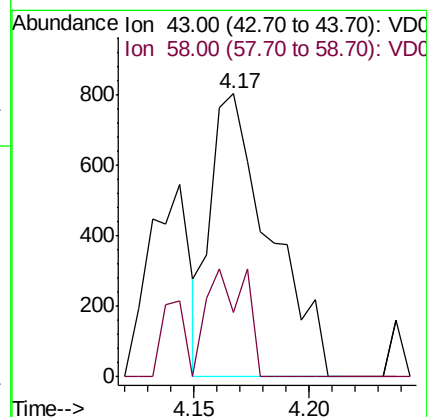
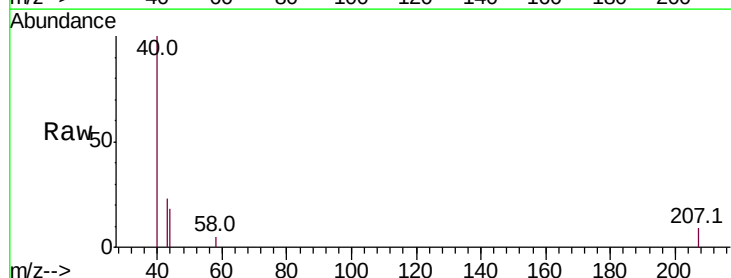
Acq: 11 Sep 2020 20:09

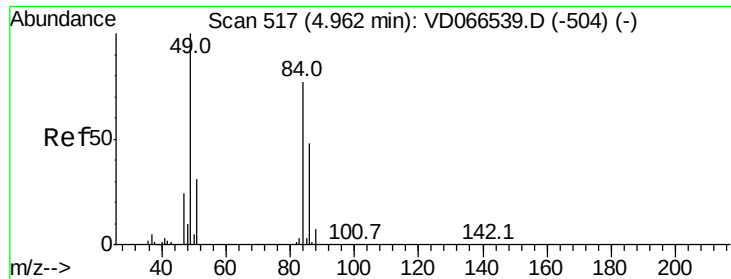
Tgt Ion: 43 Resp: 1440

Ion Ratio Lower Upper

43 100

58 23.0 22.9 34.3

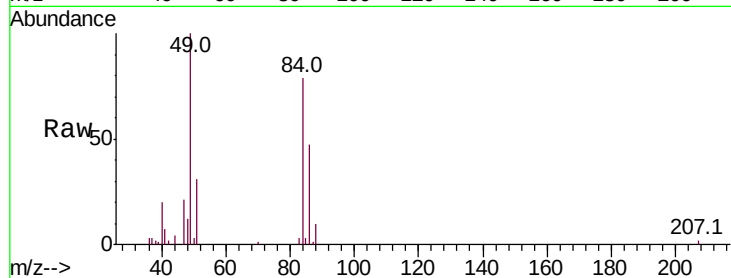




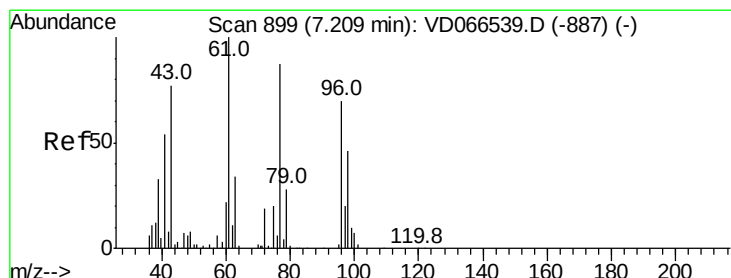
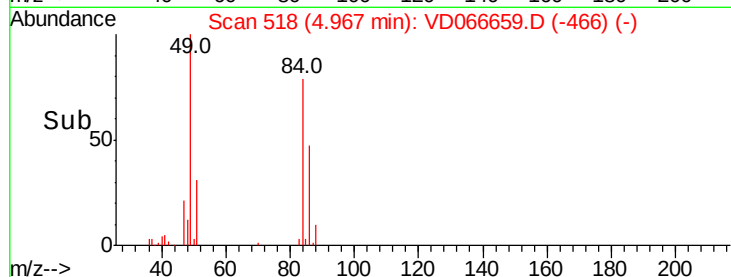
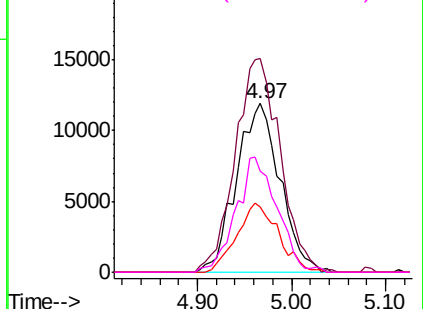
#20
Methylene Chloride
Concen: 1.651 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD066659.D
Acq: 11 Sep 2020 20:09

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	84	Resp:	38379
Ion	Ratio	Lower	Upper
84	100		
49	126.8	104.3	156.5
51	39.0	32.2	48.4
86	60.1	50.0	75.0

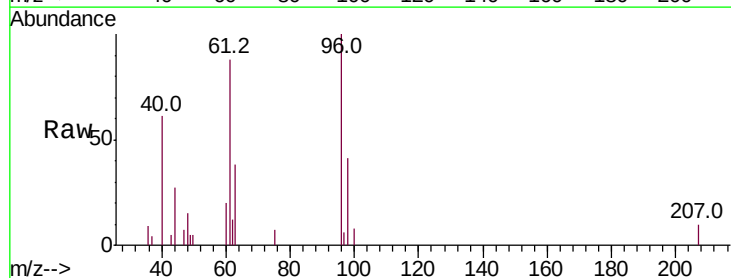


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

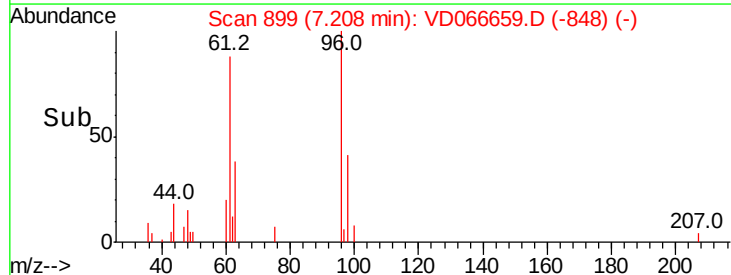
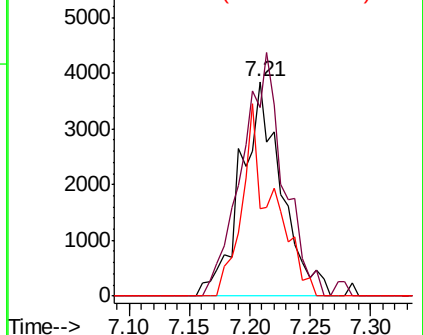


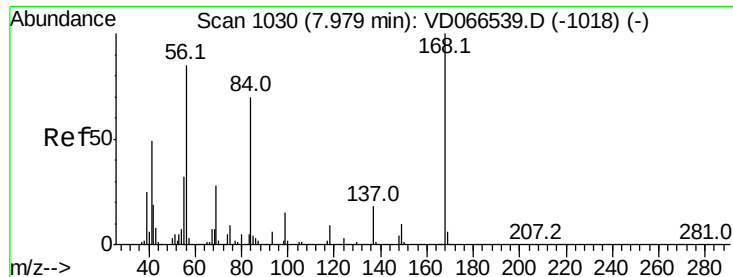
#27
cis-1,2-Dichloroethene
Concen: 1.787 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.00 min
Lab File: VD066659.D
Acq: 11 Sep 2020 20:09

Tgt Ion:	96	Resp:	9033
Ion	Ratio	Lower	Upper
96	100		
61	116.6	0.0	301.0
98	67.2	0.0	129.8



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC

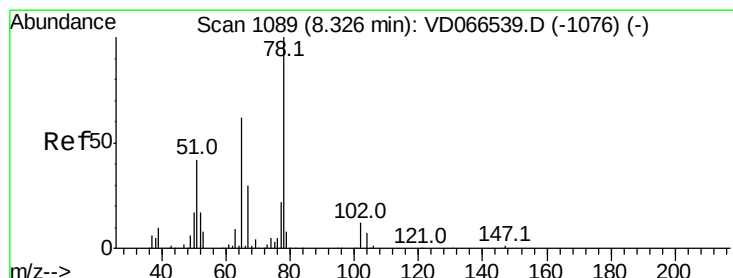
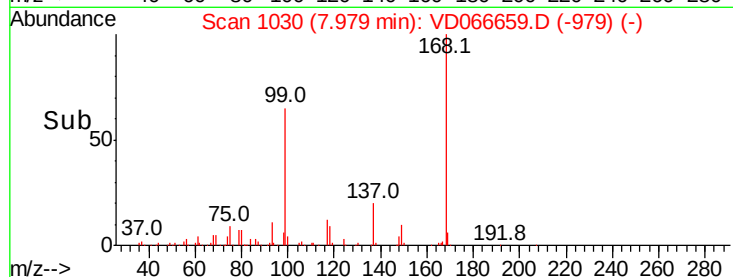
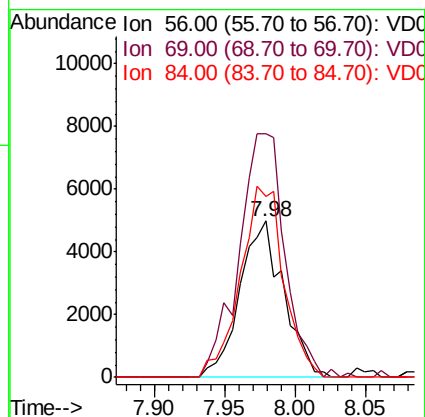
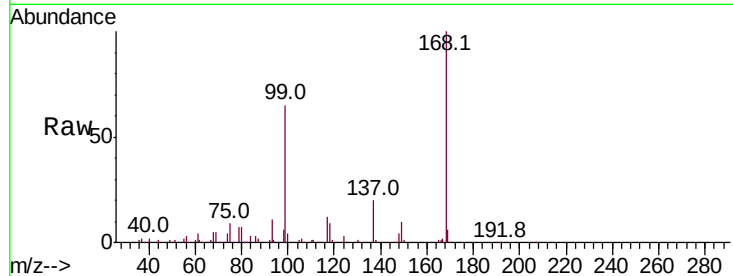




#31
Cyclohexane
Concen: 1.392 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD066659.D
Acq: 11 Sep 2020 20:09

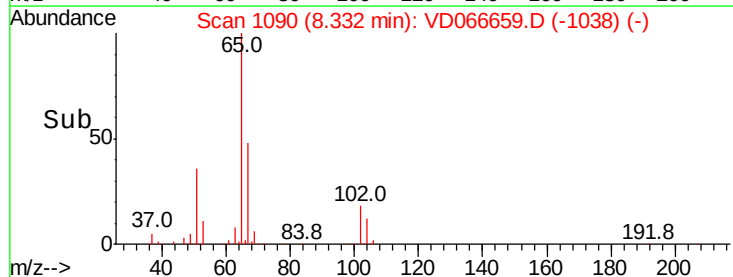
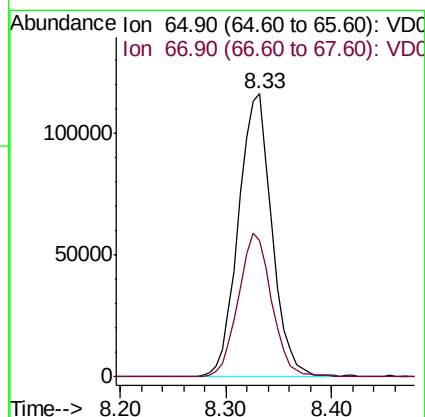
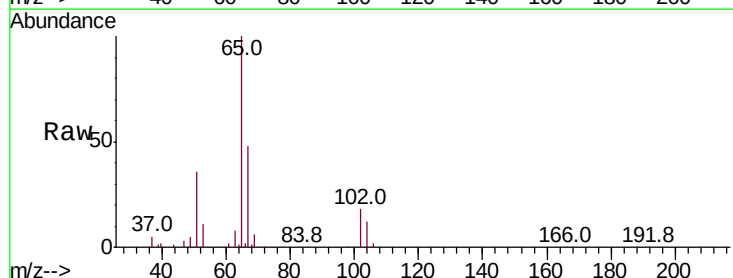
Instrument :
MSVOA_D
ClientSampled :

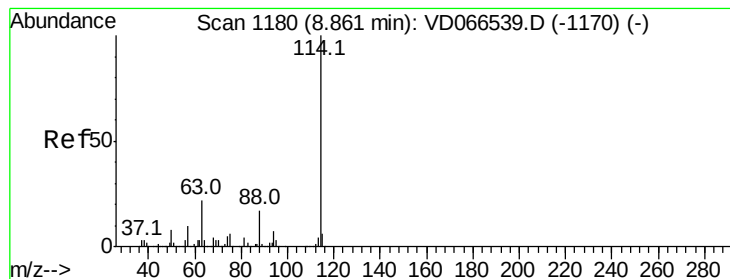
Tot Ion: 56 Resp: 10800
Ion Ratio Lower Upper
56 100
69 155.7 26.3 39.5#
84 116.0 66.1 99.1#



#33
1,2-Dichloroethane-d4
Concen: 53.762 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.01 min
Lab File: VD066659.D
Acq: 11 Sep 2020 20:09

Tgt Ion: 65 Resp: 255592
Ion Ratio Lower Upper
65 100
67 50.7 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066659.D

Acq: 11 Sep 2020 20:09

Instrument :

MSVOA_D

ClientSampleId :

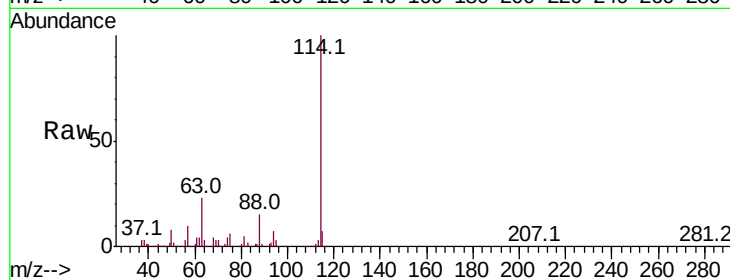
Tot Ion:114 Resp: 712860

Ion Ratio Lower Upper

114 100

63 22.7 0.0 43.2

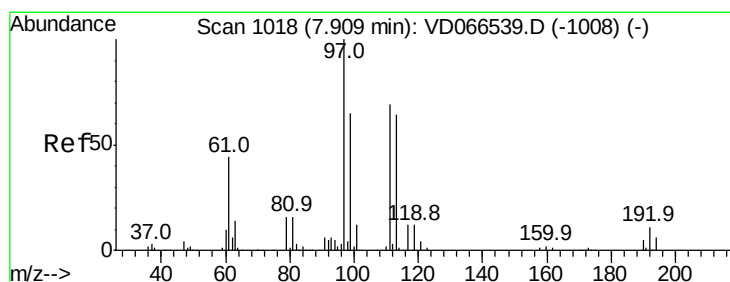
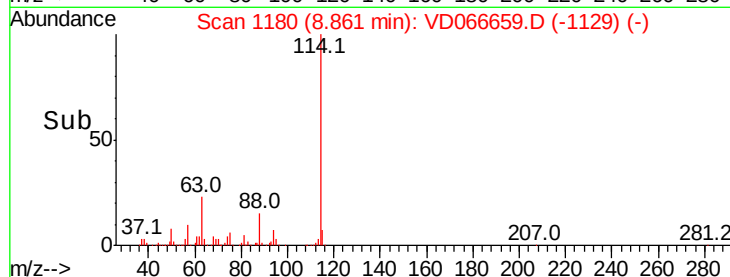
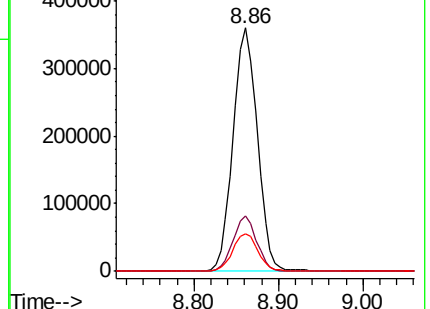
88 15.4 0.0 33.2



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: 51.227 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066659.D

Acq: 11 Sep 2020 20:09

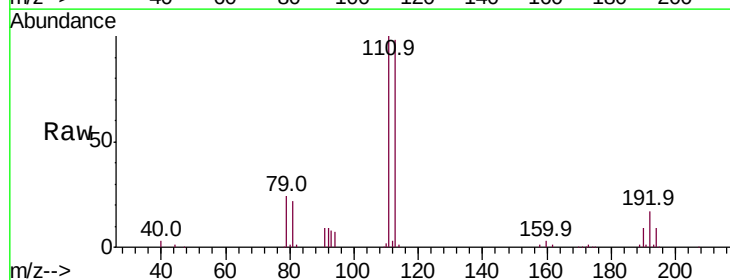
Tgt Ion:113 Resp: 246352

Ion Ratio Lower Upper

113 100

111 102.9 83.2 124.8

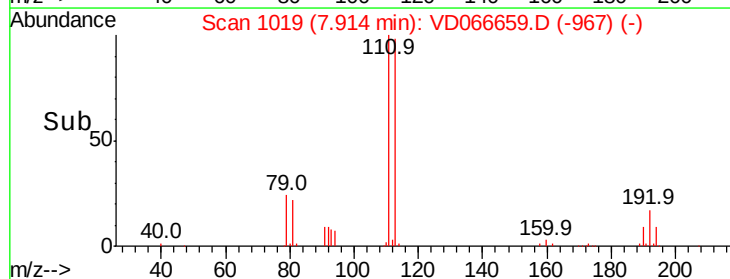
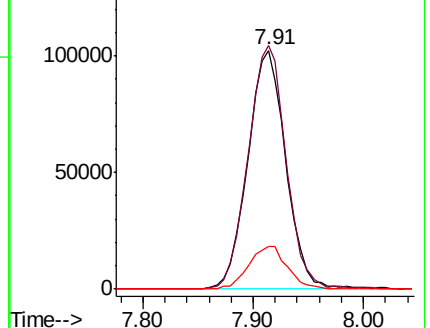
192 18.0 13.7 20.5

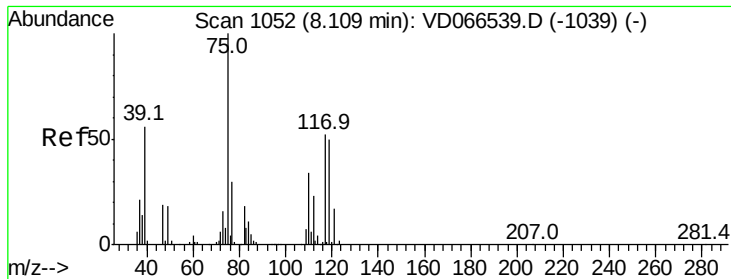


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

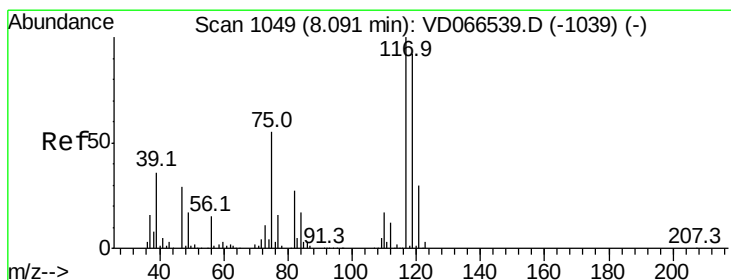
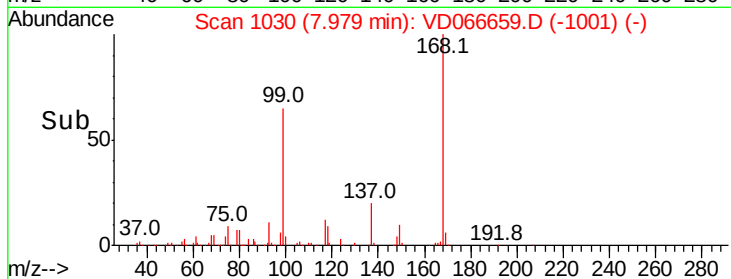
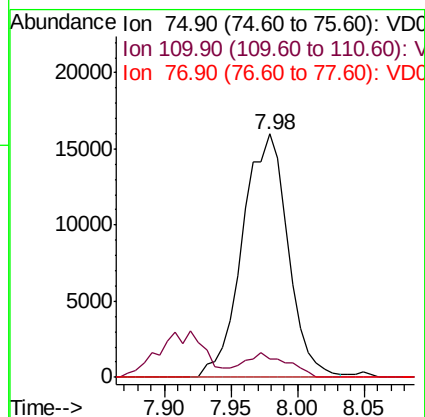
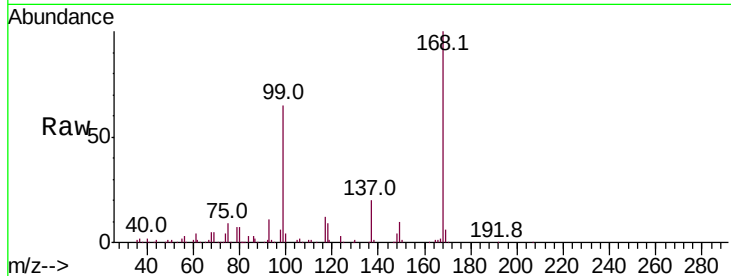




#36
 1,1-Dichloropropene
 Concen: 5.099 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.13 min
 Lab File: VD066659.D
 Acq: 11 Sep 2020 20:09

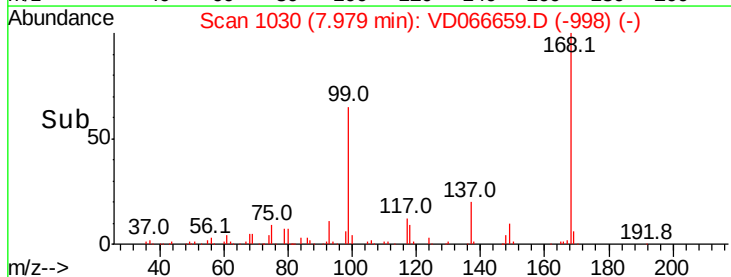
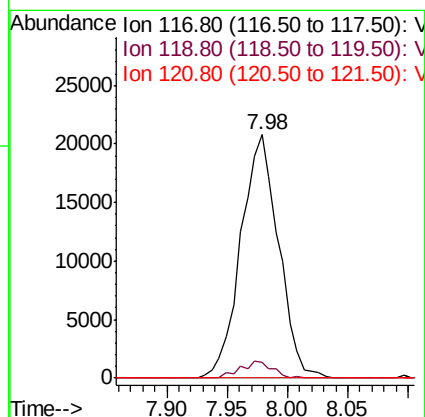
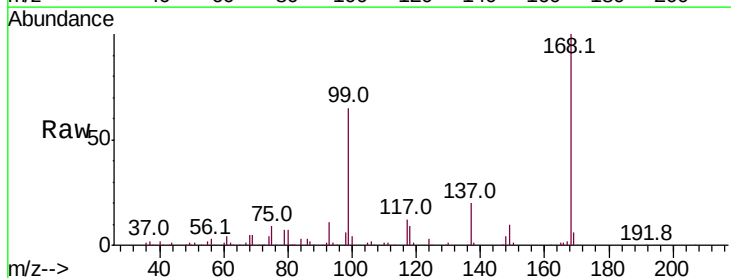
Instrument :
 MSVOA_D
 ClientSampleId :

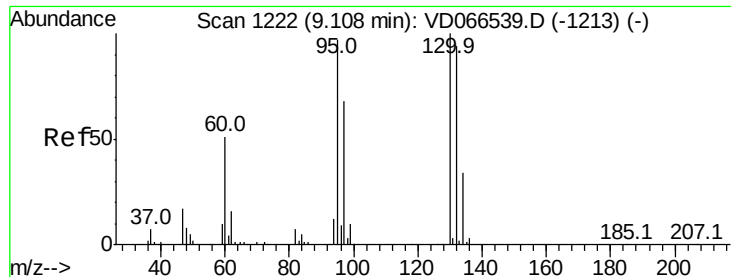
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	17.3	52.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 5.777 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.11 min
 Lab File: VD066659.D
 Acq: 11 Sep 2020 20:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	73.9	110.9#
121	0.0	24.1	36.1#





#44

Trichloroethene

Concen: 3.144 ug/l

RT: 9.11 min Scan# 1222

Delta R.T. -0.00 min

Lab File: VD066659.D

Acq: 11 Sep 2020 20:09

Instrument :

MSVOA_D

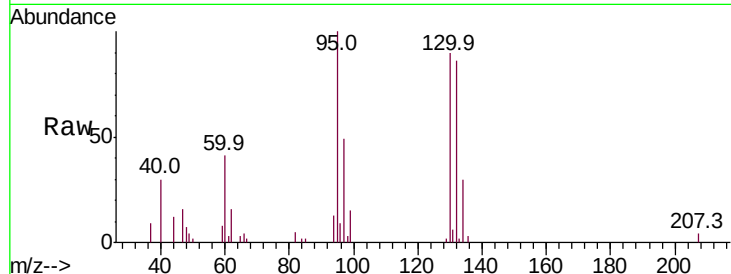
ClientSampleId :

Tot Ion:130 Resp: 16754

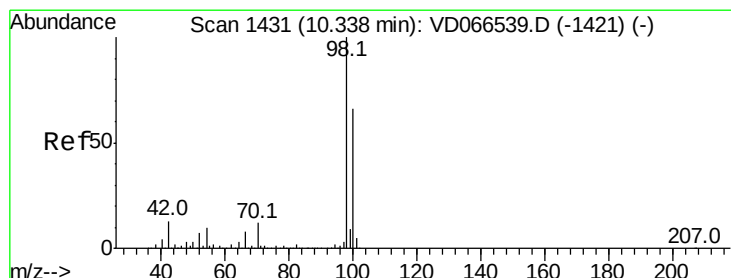
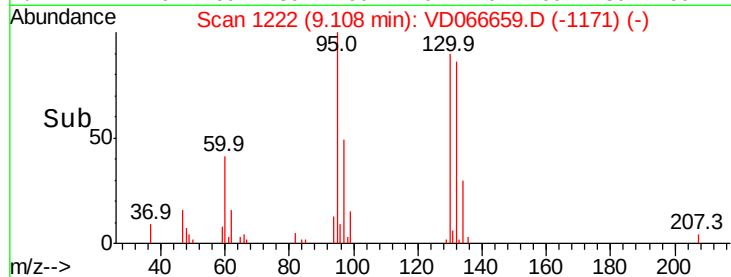
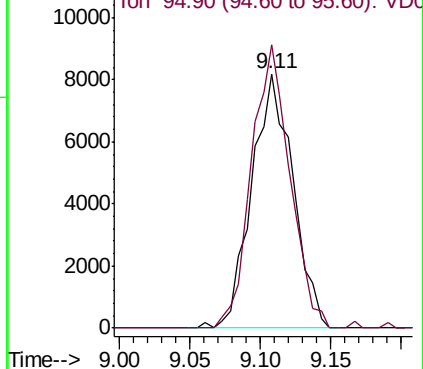
Ion Ratio Lower Upper

130 100

95 111.3 0.0 194.4



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 51.174 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066659.D

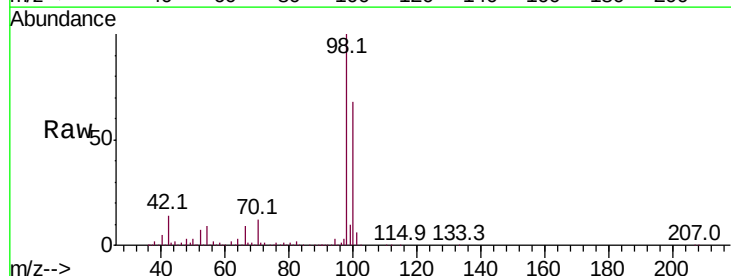
Acq: 11 Sep 2020 20:09

Tgt Ion: 98 Resp: 879580

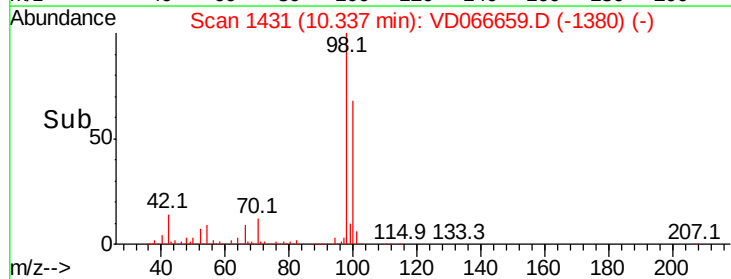
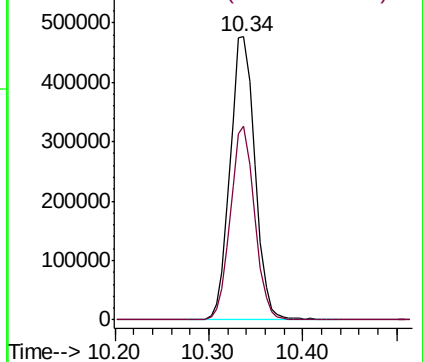
Ion Ratio Lower Upper

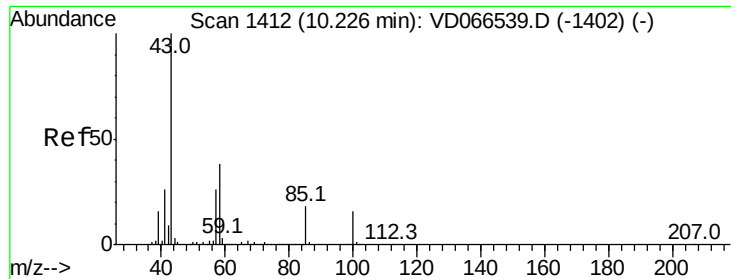
98 100

100 66.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.722 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD066659.D

Acq: 11 Sep 2020 20:09

Instrument :

MSVOA_D

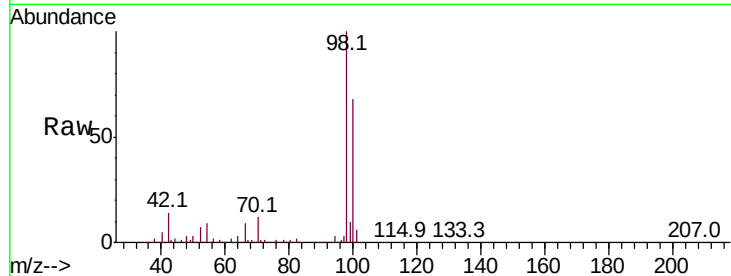
ClientSampleId :

Tot Ion: 43 Resp: 4917

Ion Ratio Lower Upper

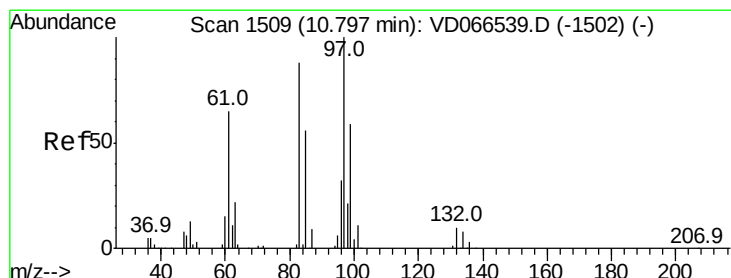
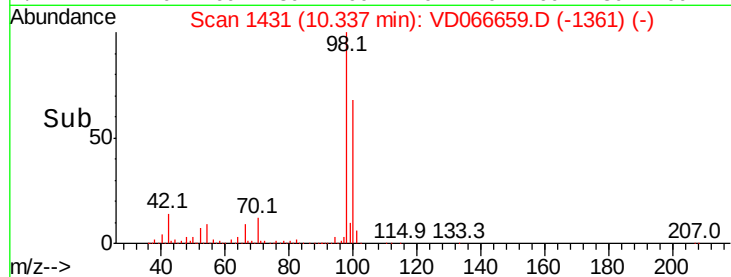
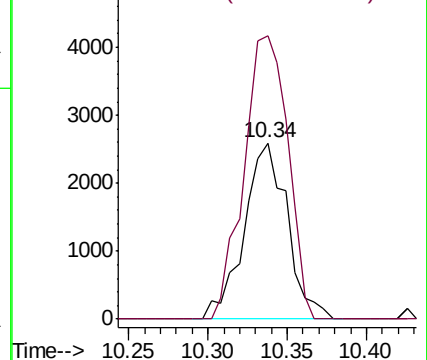
43 100

58 163.9 30.5 45.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#55

1,1,2-Trichloroethane

Concen: 2.501 ug/l

RT: 10.87 min Scan# 1521

Delta R.T. 0.07 min

Lab File: VD066659.D

Acq: 11 Sep 2020 20:09

Tgt Ion: 97 Resp: 9064

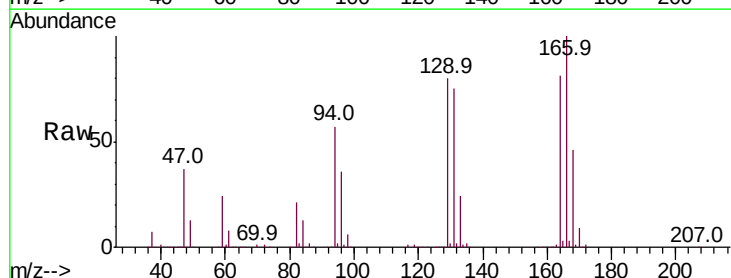
Ion Ratio Lower Upper

97 100

83 201.7 70.1 105.1#

85 32.4 44.5 66.7#

99 19.3 47.1 70.7#

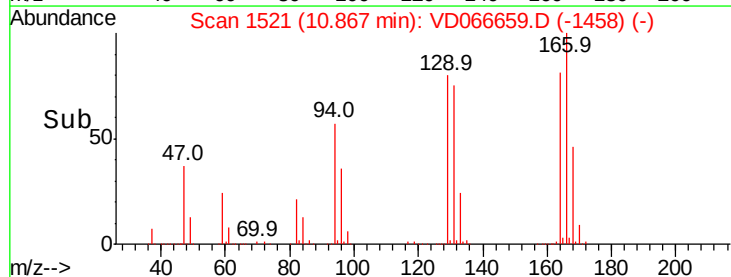
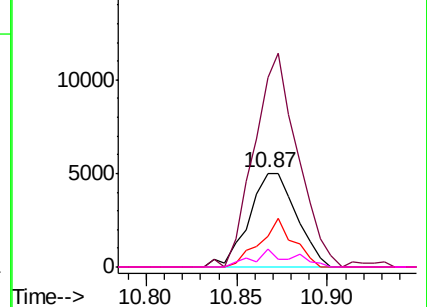


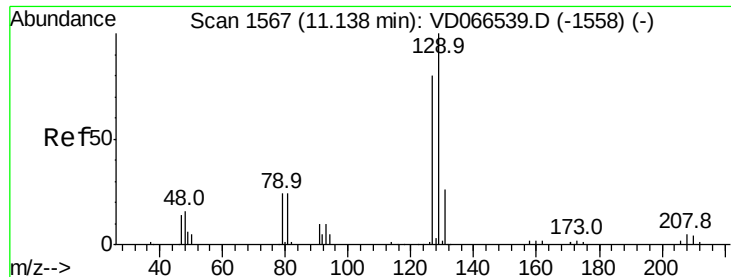
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC





#60

Dibromochloromethane

Concen: 169.857 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. -0.27 min

Lab File: VD066659.D

Acq: 11 Sep 2020 20:09

Instrument :

MSVOA_D

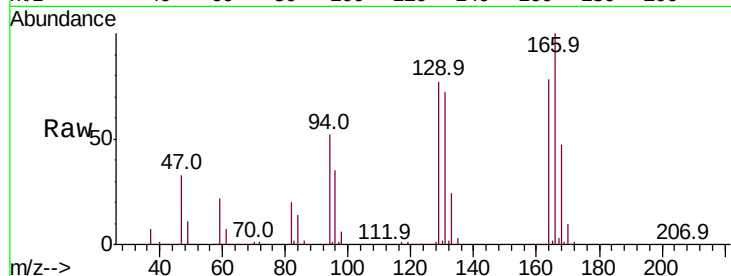
ClientSampleId :

Tot Ion:129 Resp: 814128

Ion Ratio Lower Upper

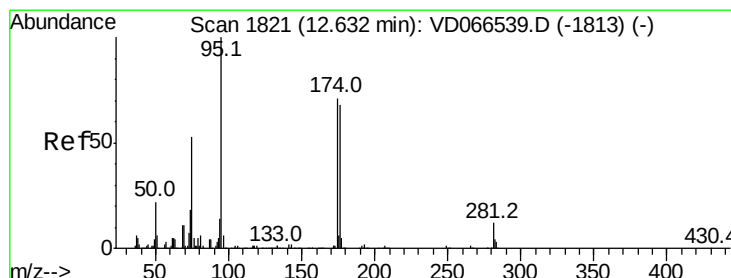
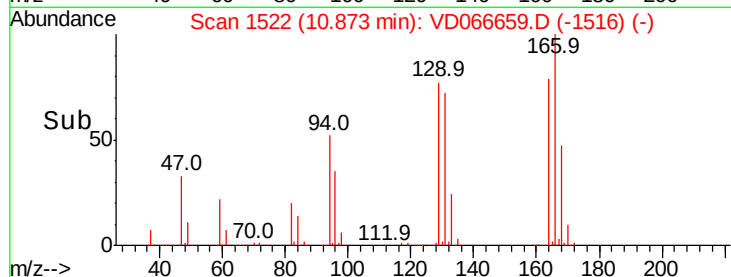
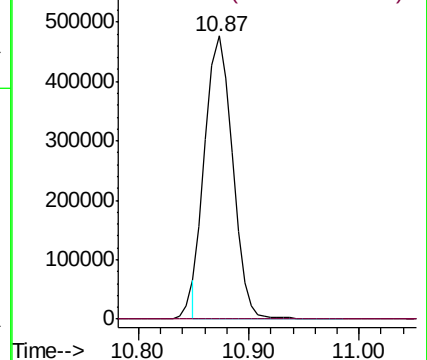
129 100

127 0.2 39.5 118.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 54.758 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066659.D

Acq: 11 Sep 2020 20:09

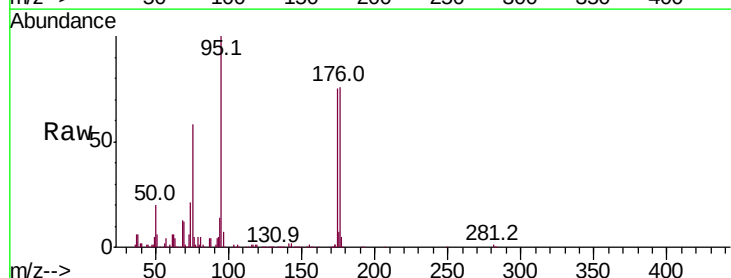
Tgt Ion: 95 Resp: 312090

Ion Ratio Lower Upper

95 100

174 76.5 0.0 155.8

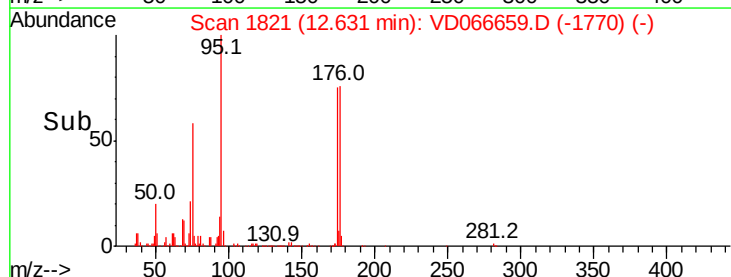
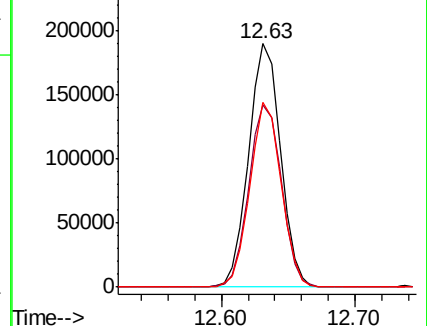
176 74.4 0.0 148.6

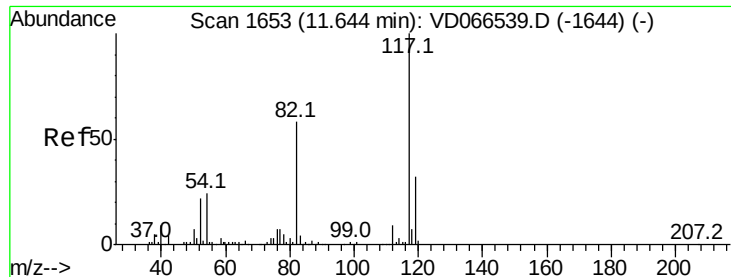


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

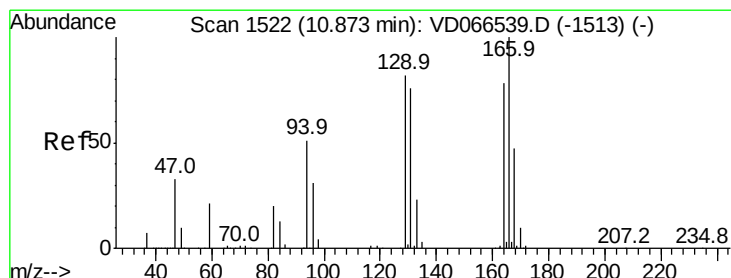
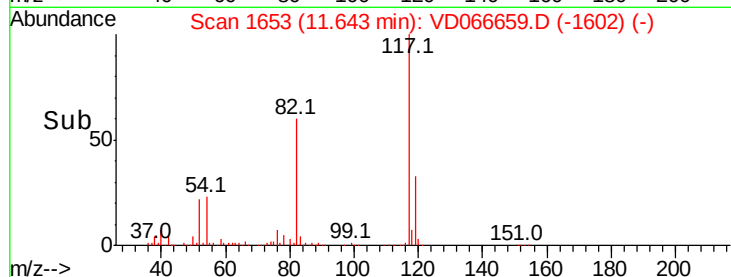
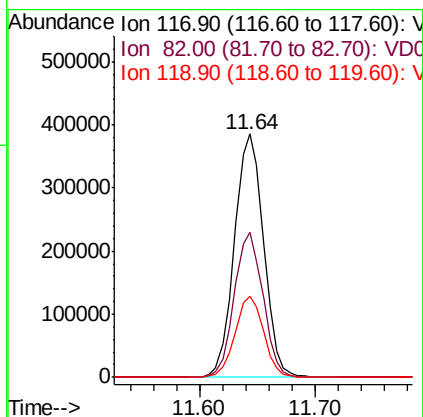
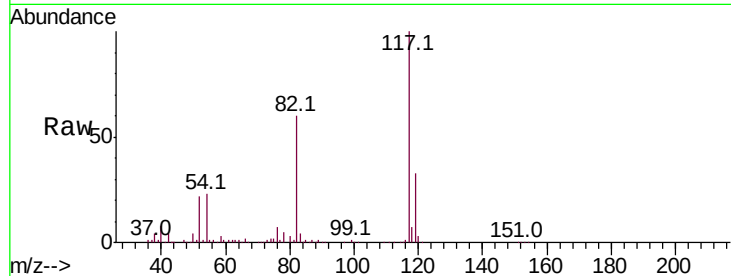




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066659.D
Acq: 11 Sep 2020 20:09

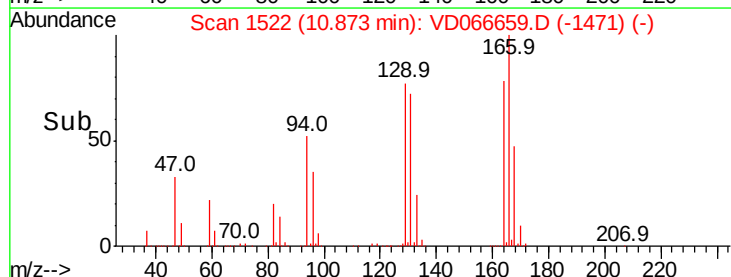
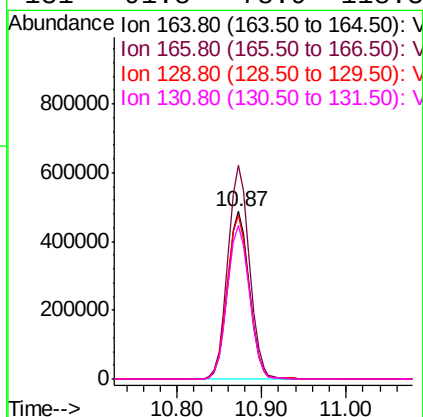
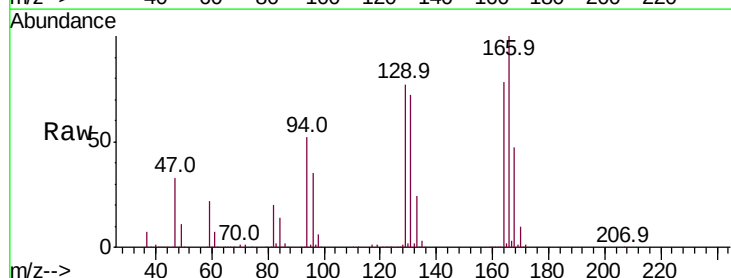
Instrument :
MSVOA_D
ClientSampleId :

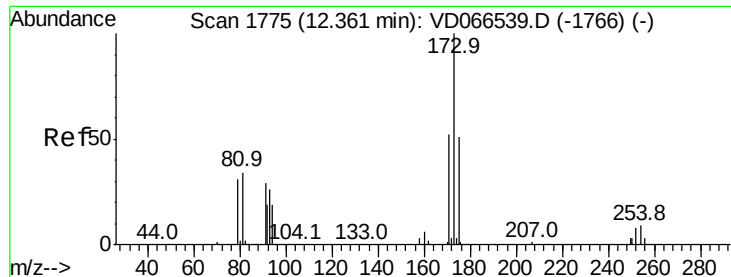
Tot Ion:117 Resp: 674024
Ion Ratio Lower Upper
117 100
82 59.5 46.2 69.2
119 33.0 25.8 38.8



#64
Tetrachloroethene
Concen: 188.685 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD066659.D
Acq: 11 Sep 2020 20:09

Tgt Ion:164 Resp: 856295
Ion Ratio Lower Upper
164 100
166 127.5 103.2 154.8
129 97.7 84.5 126.7
131 91.8 78.9 118.3





#71

Bromoform

Concen: 1.186 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.27 min

Lab File: VD066659.D

Acq: 11 Sep 2020 20:09

Instrument :

MSVOA_D

ClientSampleId :

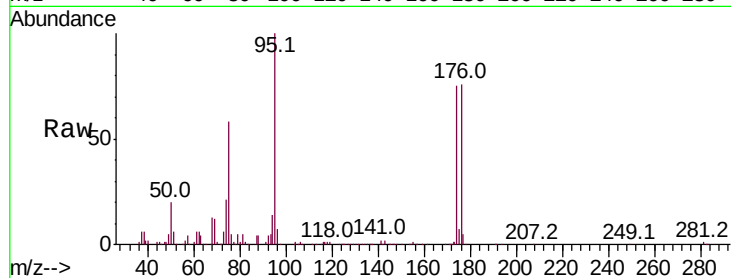
Tot Ion:173 Resp: 3174

Ion Ratio Lower Upper

173 100

175 448.2 24.2 72.6#

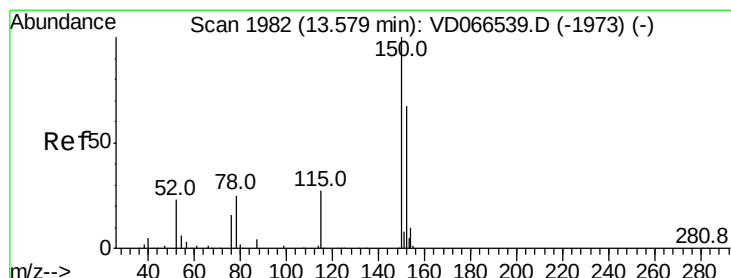
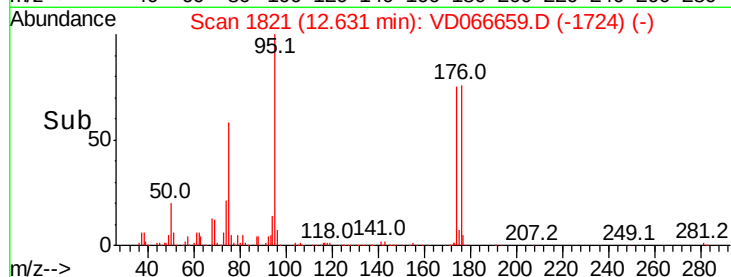
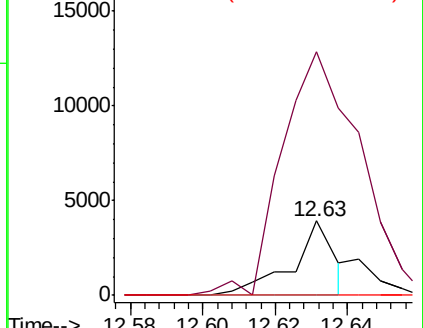
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066659.D

Acq: 11 Sep 2020 20:09

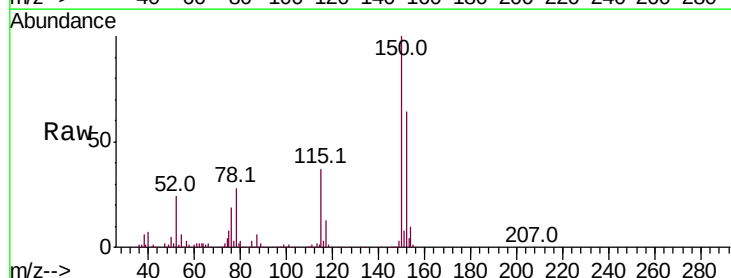
Tgt Ion:152 Resp: 293269

Ion Ratio Lower Upper

152 100

115 60.8 30.4 91.2

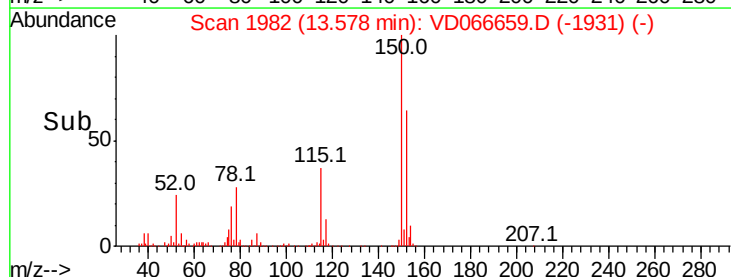
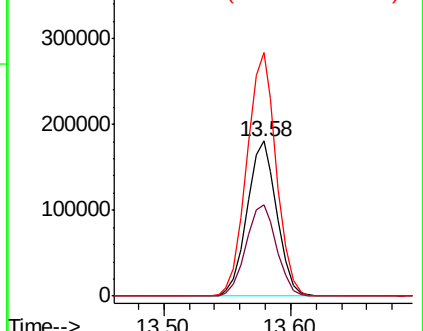
150 155.8 0.0 345.8

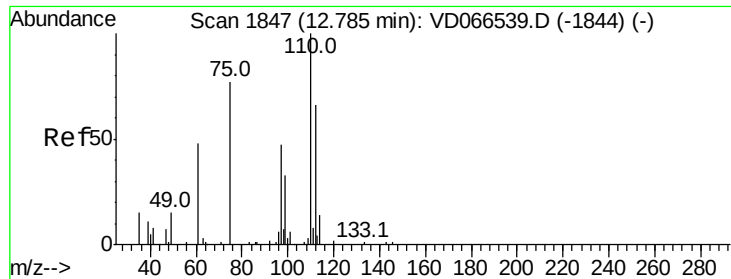


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

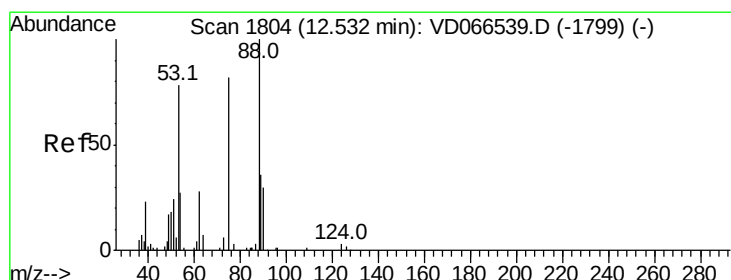
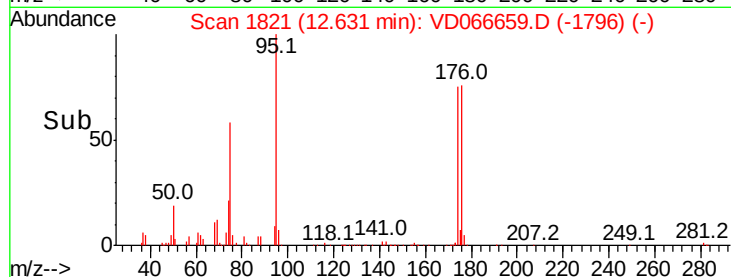
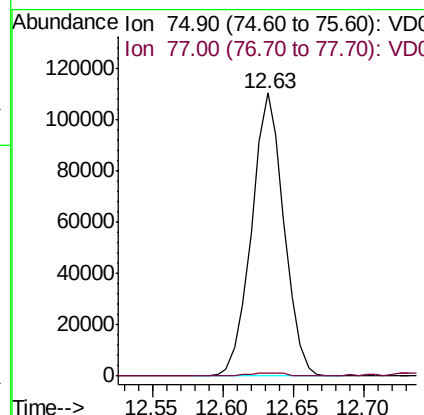
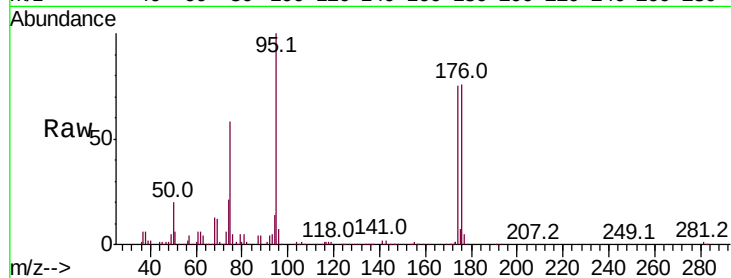




#76
 1,2,3-Trichloropropane
 Concen: 62.975 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD066659.D
 Acq: 11 Sep 2020 20:09

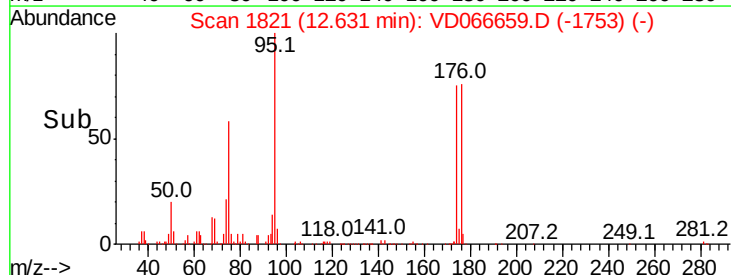
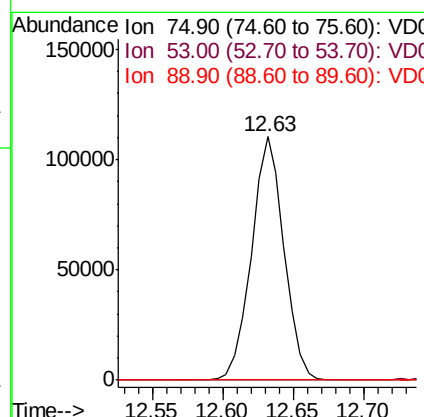
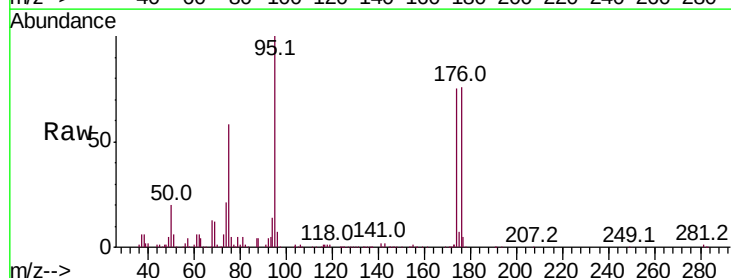
Instrument :
 MSVOA_D
 ClientSampled :

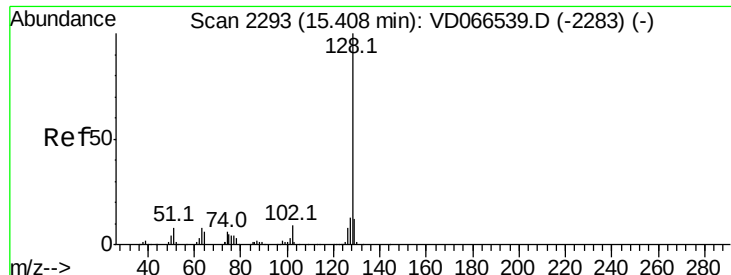
Tot Ion: 75 Resp: 177618
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 147.024 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.10 min
 Lab File: VD066659.D
 Acq: 11 Sep 2020 20:09

Tgt Ion: 75 Resp: 177618
 Ion Ratio Lower Upper
 75 100
 53 0.0 87.0 130.4#
 89 0.1 37.1 55.7#

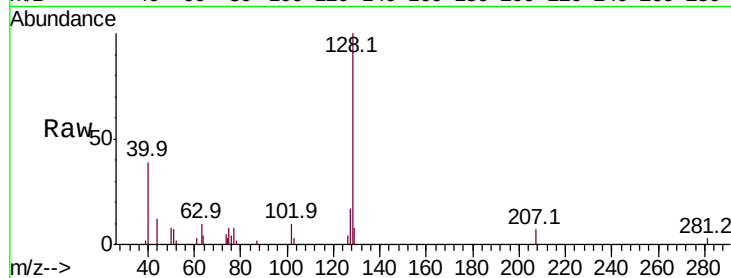




#95
Naphthalene
Concen: 1.477 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VD066659.D
Acq: 11 Sep 2020 20:09

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.3	10.7	16.1#
129	12.5	9.1	13.7



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

