

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091120\
 Data File : VD066653.D
 Acq On : 11 Sep 2020 17:24
 Operator : VA/SY
 Sample : L3981-04
 Misc : 11.07G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 12 00:41:05 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	7.97	168	399096	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	679375	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	610749	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	219800	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	234485	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	
35) Dibromofluoromethane	7.91	113	233662	50.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.96%	
50) Toluene-d8	10.34	98	824281	50.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.64%	
62) 4-Bromofluorobenzene	12.63	95	241283	44.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.84%	

Target Compounds

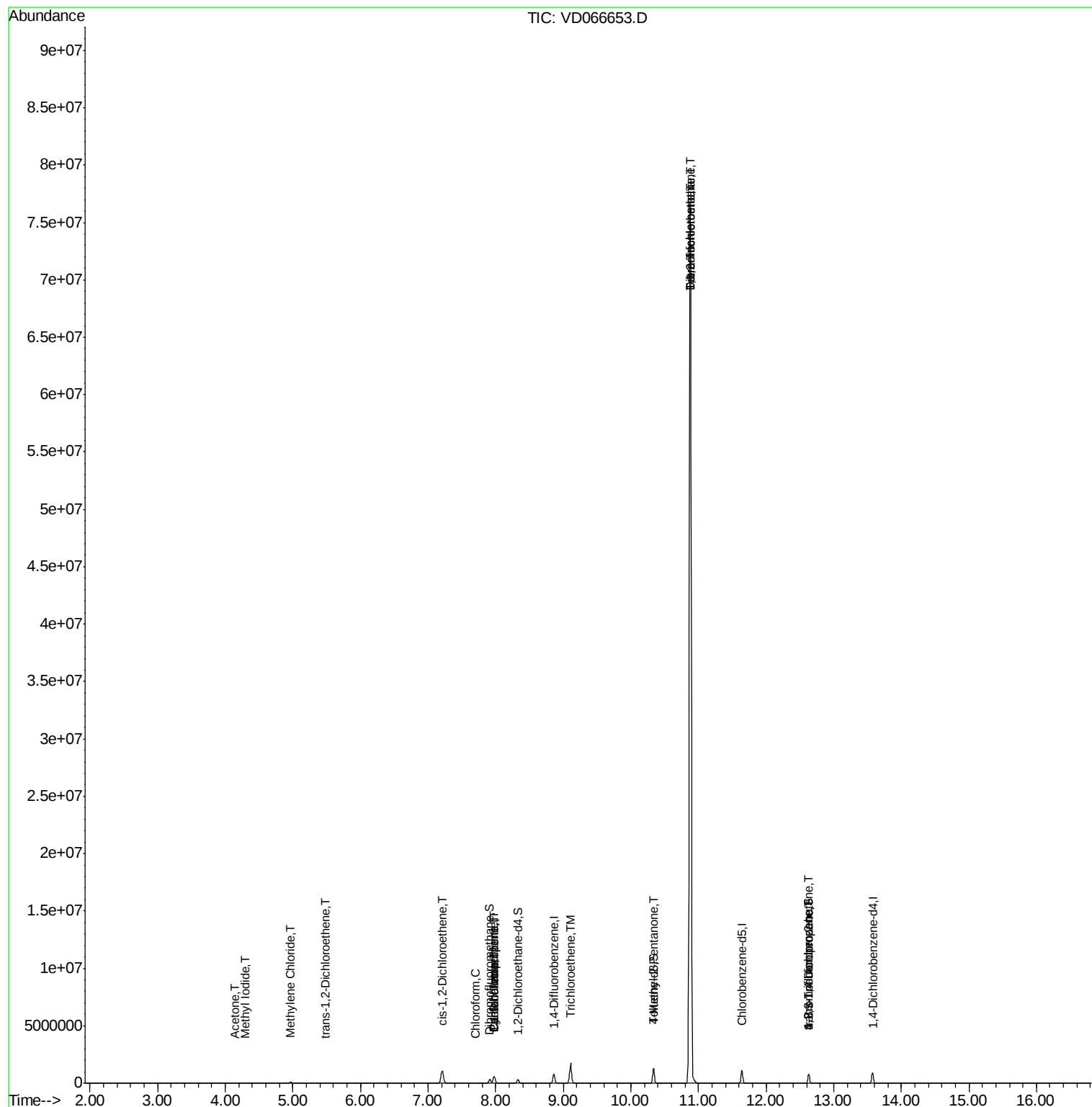
						Qvalue
2) Dichlorodifluoromethane	1.99	85	210	Below Cal	#	46
5) Bromomethane	2.75	94	58	Below Cal	#	9
10) Methyl Iodide	4.29	142	114	4.049	ug/l #	35
11) Tert butyl alcohol	5.23	59	58	Below Cal	#	74
16) Acetone	4.15	43	2823	3.177	ug/l #	85
20) Methylene Chloride	4.96	84	39136	1.688	ug/l	91
21) trans-1,2-Dichloroethene	5.47	96	8232	1.724	ug/l #	75
27) cis-1,2-Dichloroethene	7.21	96	641591	124.951	ug/l	88
30) Chloroform	7.71	83	11395	1.264	ug/l	93
31) Cyclohexane	7.97	56	10968	1.392	ug/l #	7
36) 1,1-Dichloropropene	7.97	75	37254	5.269	ug/l #	51
38) Carbon Tetrachloride	7.98	117	43976	5.885	ug/l #	19
44) Trichloroethene	9.11	130	624310	122.912	ug/l	91
51) 4-Methyl-2-Pentanone	10.34	43	4982	1.831	ug/l #	1
55) 1,1,2-Trichloroethane	10.88	97	215650	62.429	ug/l #	31
60) Dibromochloromethane	10.87	129	18528009	4056.149	ug/l #	10
64) Tetrachloroethene	10.87	164	18825422	4577.949	ug/l #	88
76) 1,2,3-Trichloropropane	12.63	75	136327	64.491	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	136327	150.564	ug/l #	7

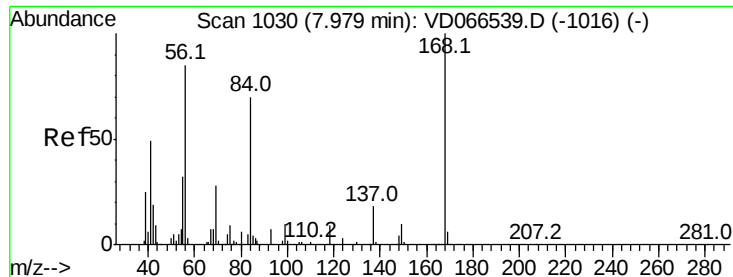
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 04 01:57:04 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066653.D

Acq: 11 Sep 2020 17:24

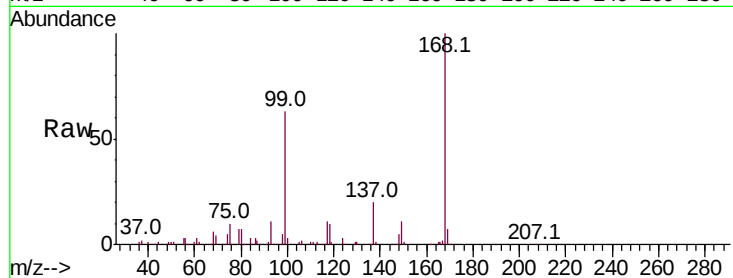
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 399096

Ion Ratio Lower Upper

168 100

99 62.8 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

200000

150000

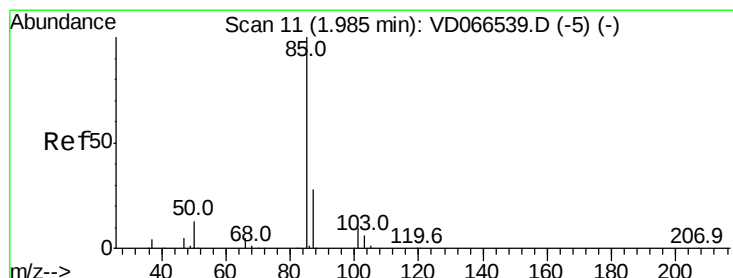
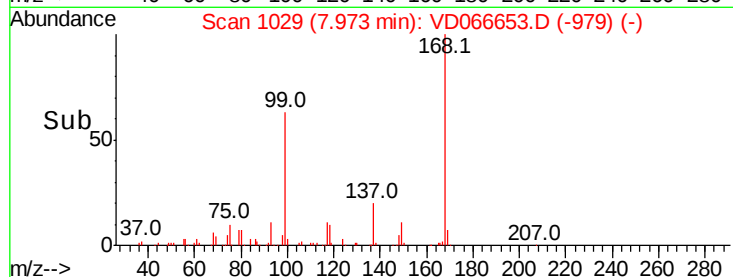
100000

50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066653.D

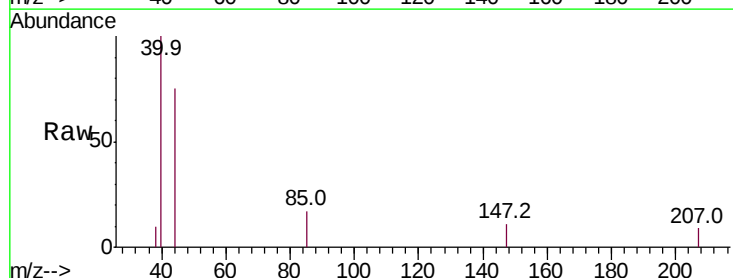
Acq: 11 Sep 2020 17:24

Tgt Ion: 85 Resp: 210

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

500

400

300

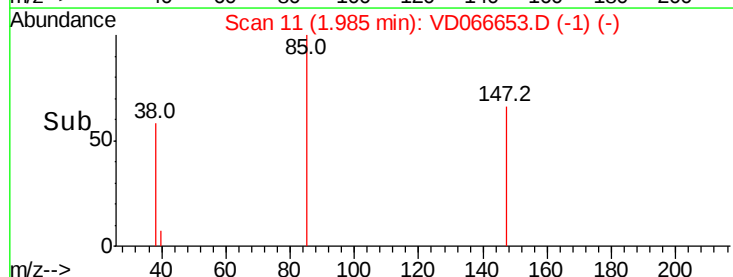
200

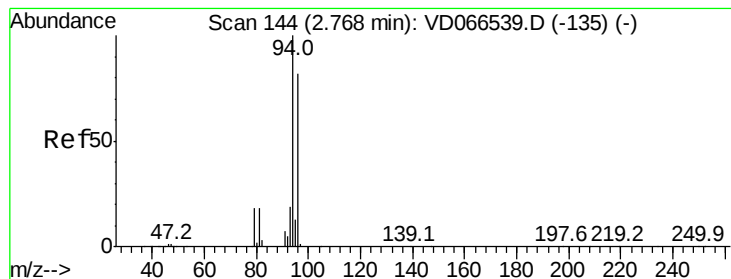
100

0

1.96 1.98 2.00 2.02

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.75 min Scan# 141

Delta R.T. -0.02 min

Lab File: VD066653.D

Acq: 11 Sep 2020 17:24

Instrument :

MSVOA_D

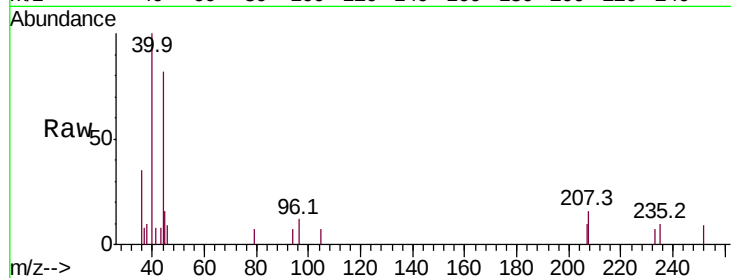
ClientSampleId :

Tot Ion: 94 Resp: 58

Ion Ratio Lower Upper

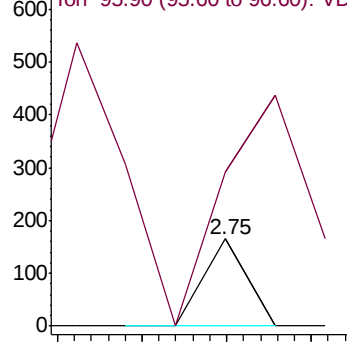
94 100

96 0.0 65.2 97.8#

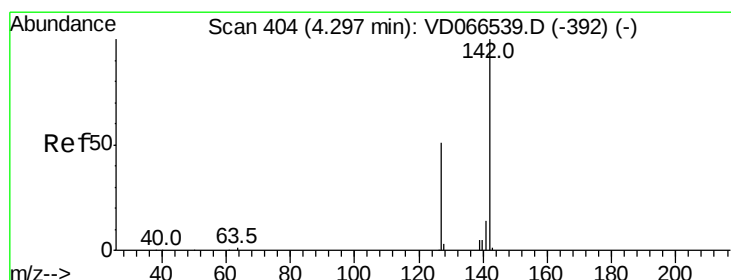
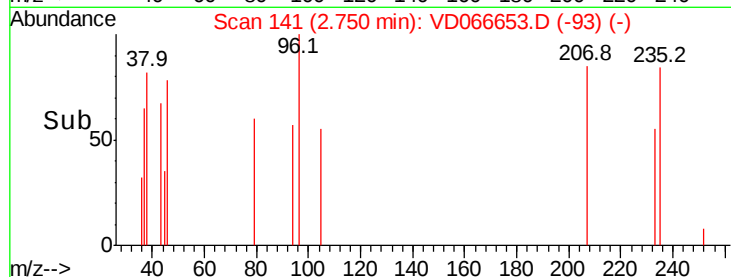


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->



#10

Methyl Iodide

Concen: 4.049 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD066653.D

Acq: 11 Sep 2020 17:24

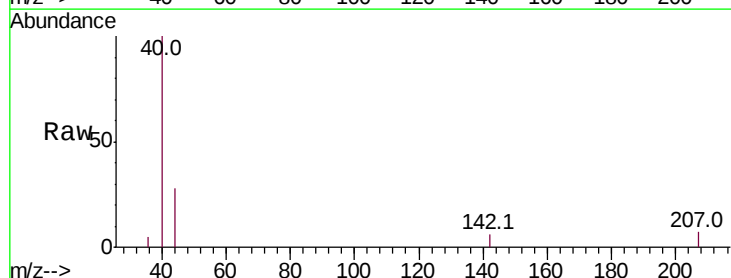
Tgt Ion: 142 Resp: 114

Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

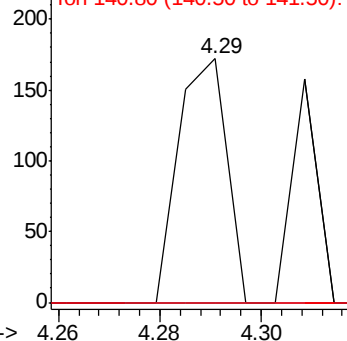
141 0.0 12.2 18.4#



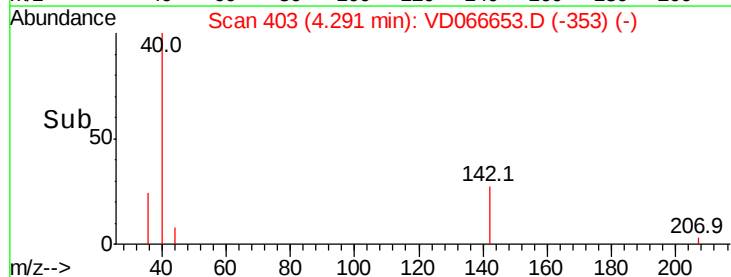
Abundance Ion 141.80 (141.50 to 142.50): V

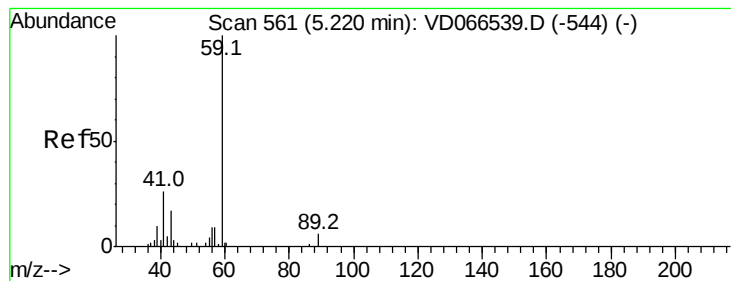
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



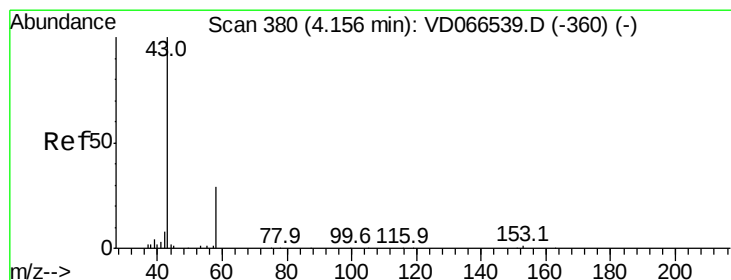
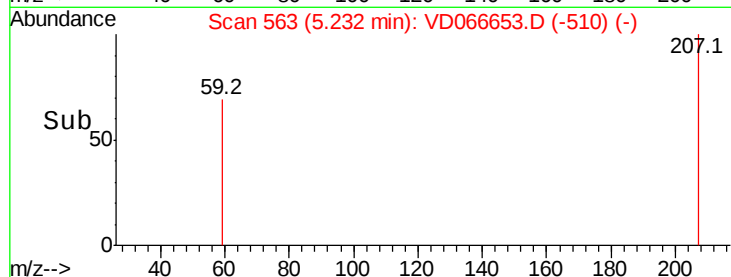
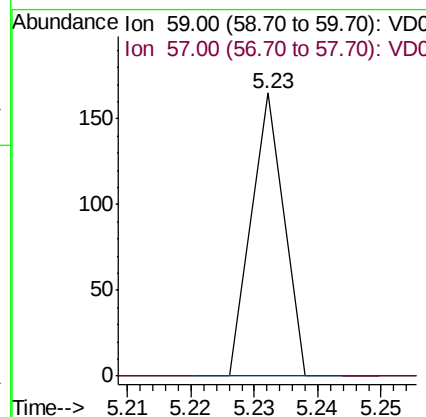
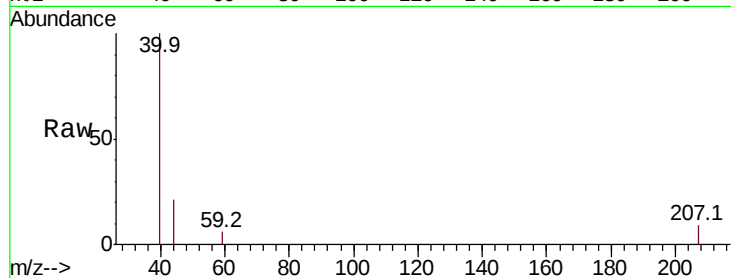


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.23 min Scan# 563
 Delta R.T. 0.01 min
 Lab File: VD066653.D
 Acq: 11 Sep 2020 17:24

Instrument :
 MSVOA_D
 ClientSampleId :

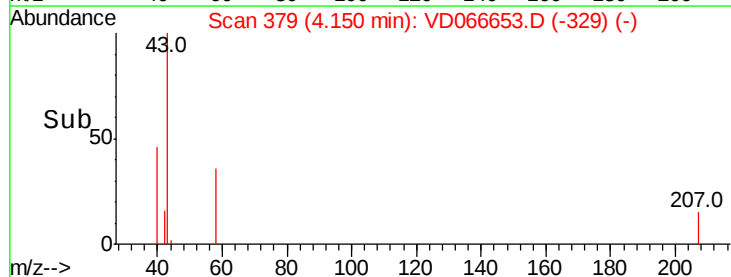
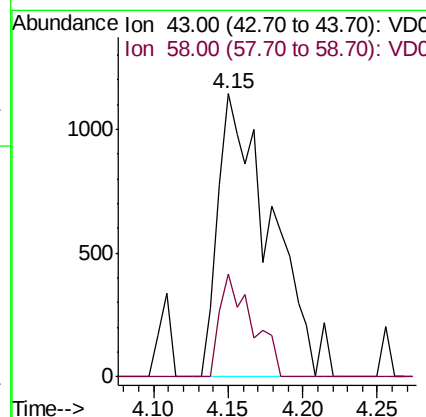
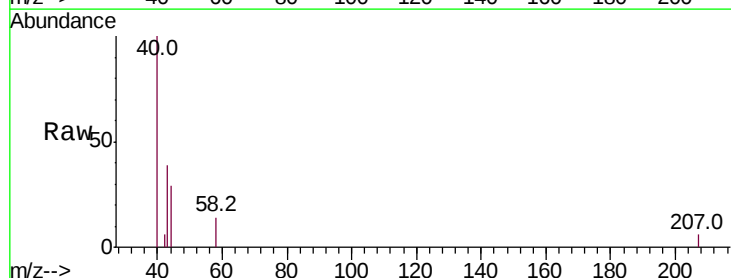
Tot Ion: 59 Resp: 58
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

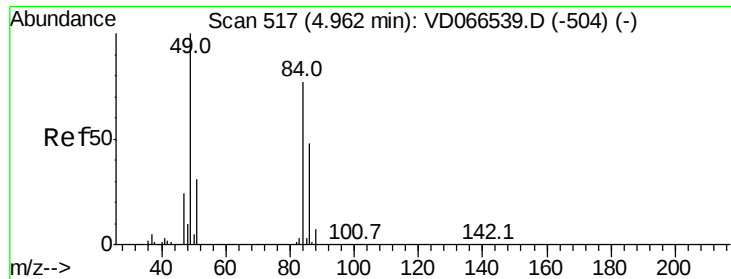


#16

Acetone
 Concen: 3.177 ug/l
 RT: 4.15 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: VD066653.D
 Acq: 11 Sep 2020 17:24

Tgt Ion: 43 Resp: 2823
 Ion Ratio Lower Upper
 43 100
 58 36.5 22.9 34.3#

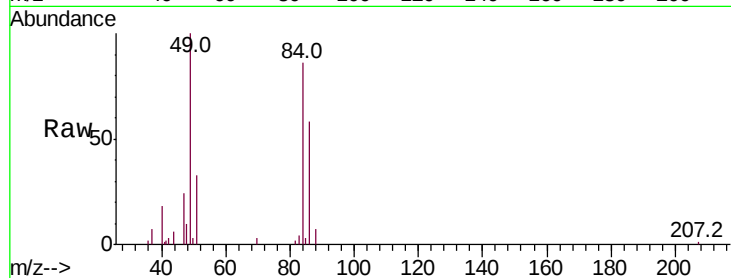




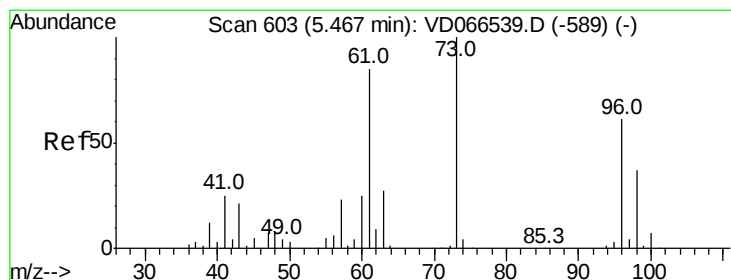
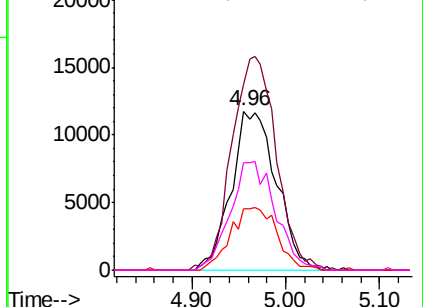
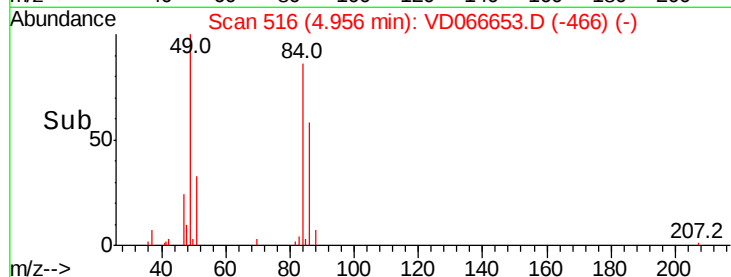
#20
Methvlene Chloride
Concen: 1.688 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD066653.D
Acq: 11 Sep 2020 17:24

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 39136
Ion Ratio Lower Upper
84 100
49 116.2 104.3 156.5
51 38.7 32.2 48.4
86 67.4 50.0 75.0

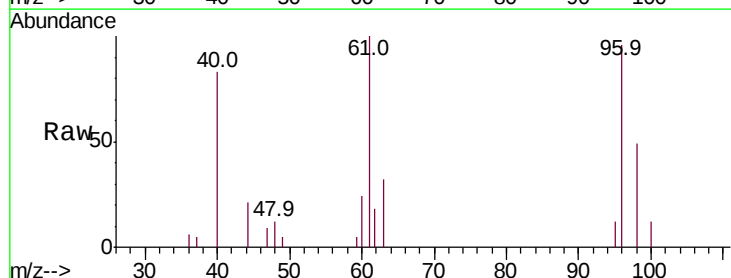


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

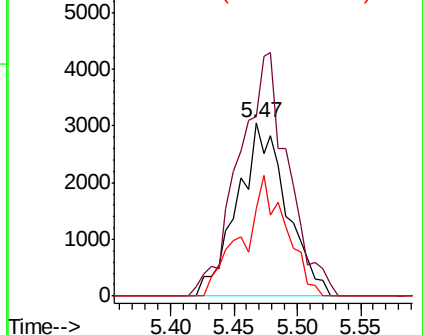
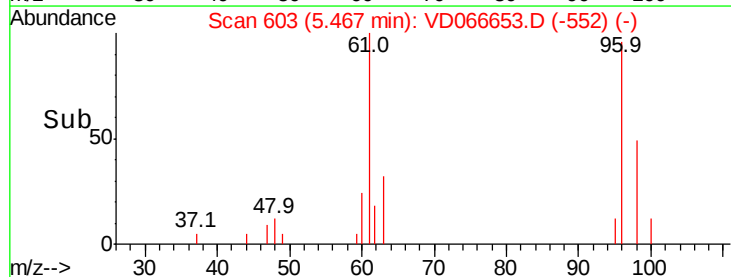


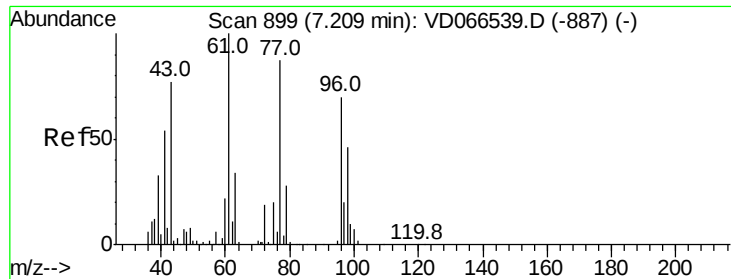
#21
trans-1,2-Dichloroethene
Concen: 1.724 ug/l
RT: 5.47 min Scan# 603
Delta R.T. -0.00 min
Lab File: VD066653.D
Acq: 11 Sep 2020 17:24

Tgt Ion: 96 Resp: 8232
Ion Ratio Lower Upper
96 100
61 103.6 112.1 168.1#
98 50.7 48.6 72.8



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



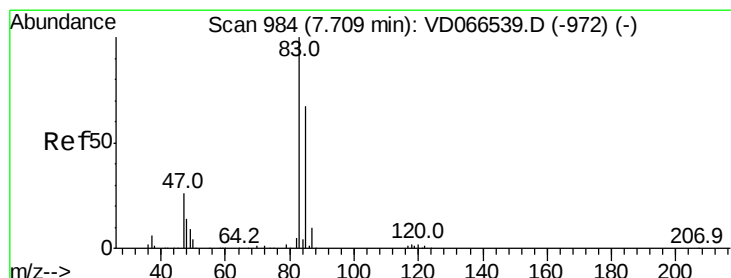
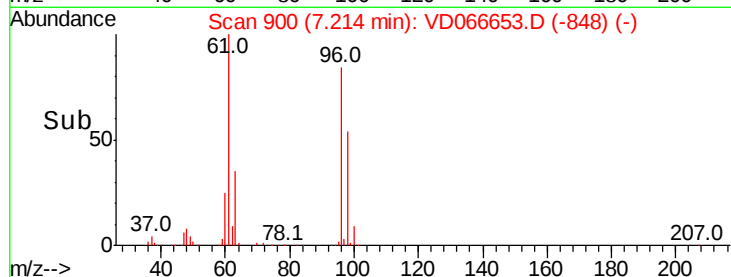
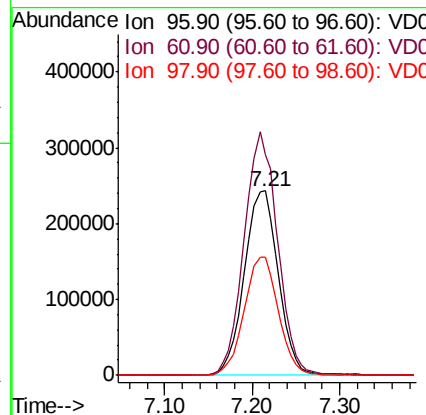
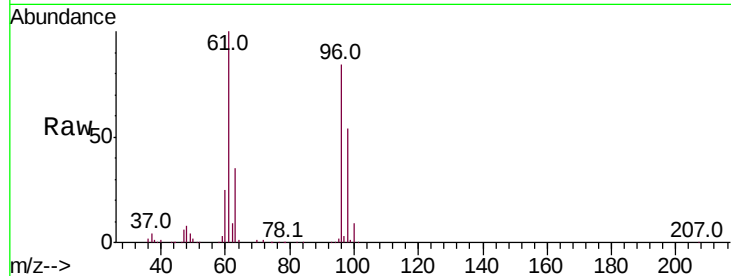


#27

cis-1,2-Dichloroethene
 Concen: 124.951 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VD066653.D
 Acq: 11 Sep 2020 17:24

Instrument :
 MSVOA_D
 ClientSampleId :

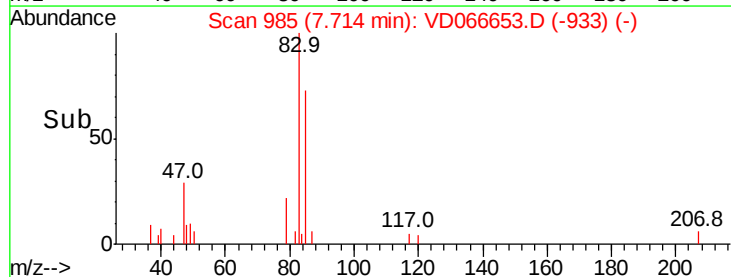
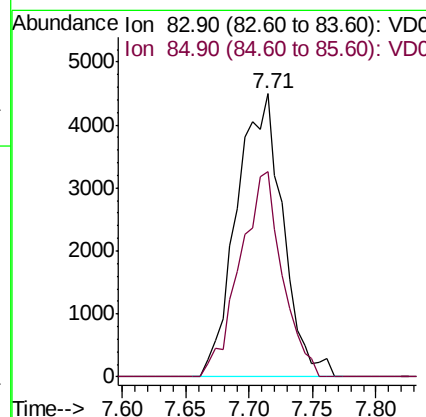
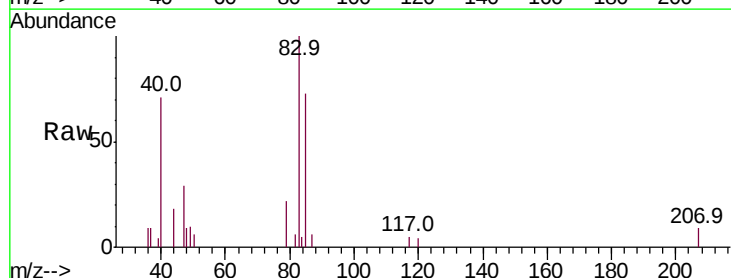
Tot Ion: 96 Resp: 641591
 Ion Ratio Lower Upper
 96 100
 61 129.9 0.0 301.0
 98 64.2 0.0 129.8

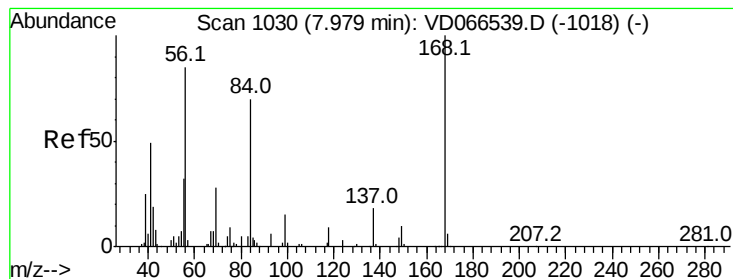


#30

Chloroform
 Concen: 1.264 ug/l
 RT: 7.71 min Scan# 985
 Delta R.T. 0.01 min
 Lab File: VD066653.D
 Acq: 11 Sep 2020 17:24

Tgt Ion: 83 Resp: 11395
 Ion Ratio Lower Upper
 83 100
 85 72.7 53.6 80.4





#31

Cyclohexane

Concen: 1.392 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066653.D

Acq: 11 Sep 2020 17:24

Instrument :
MSVOA_D
ClientSampleId :

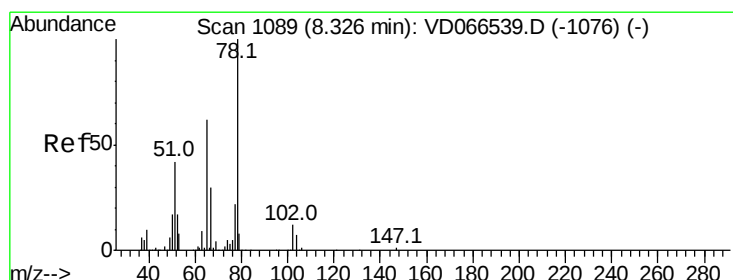
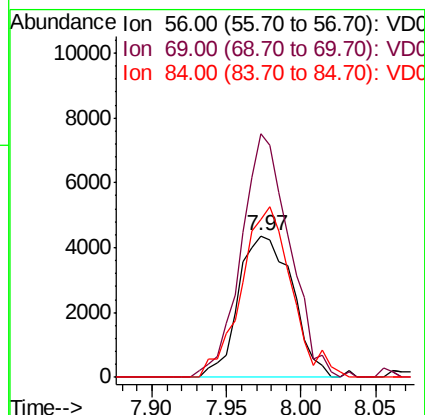
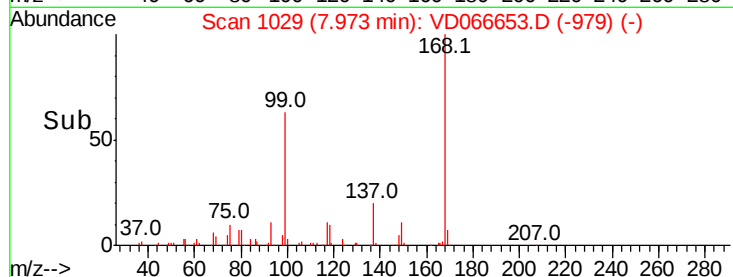
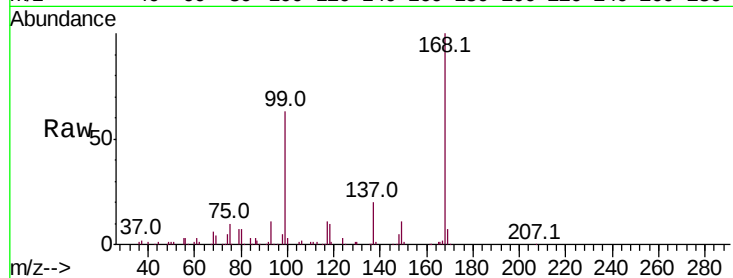
Tot Ion: 56 Resp: 10968

Ion Ratio Lower Upper

56 100

69 172.2 26.3 39.5#

84 111.2 66.1 99.1#



#33

1,2-Dichloroethane-d4

Concen: 48.561 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VD066653.D

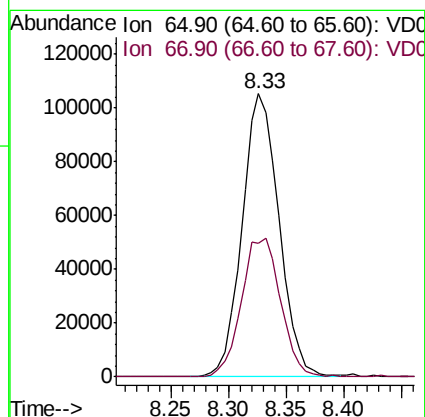
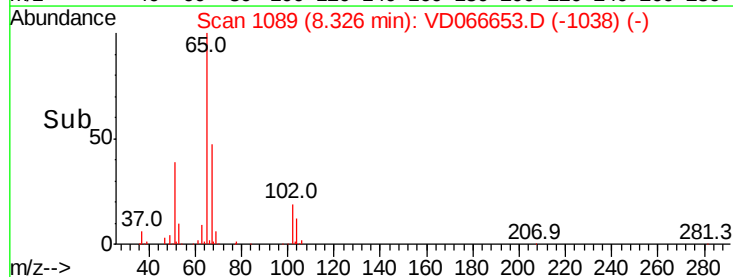
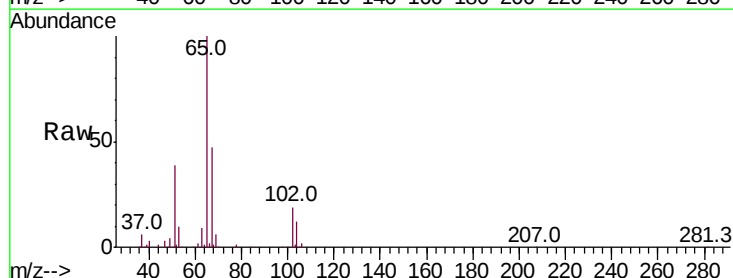
Acq: 11 Sep 2020 17:24

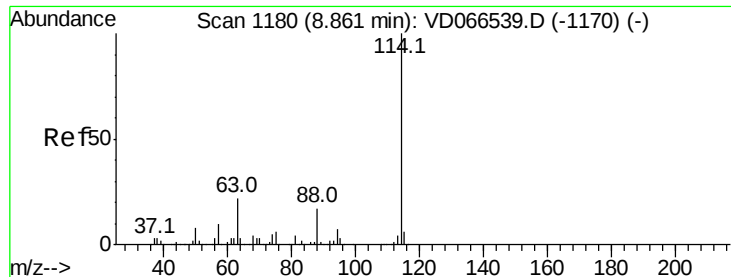
Tgt Ion: 65 Resp: 234485

Ion Ratio Lower Upper

65 100

67 52.1 0.0 102.8

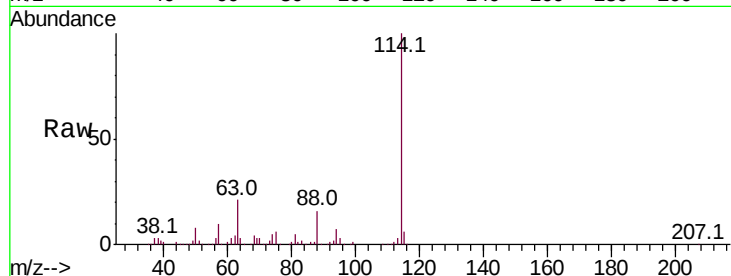




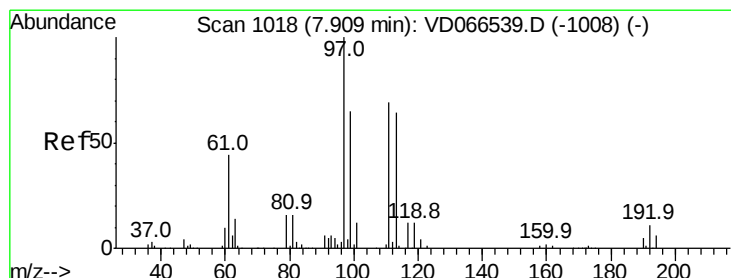
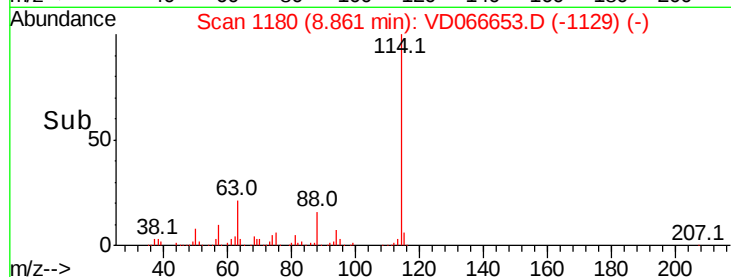
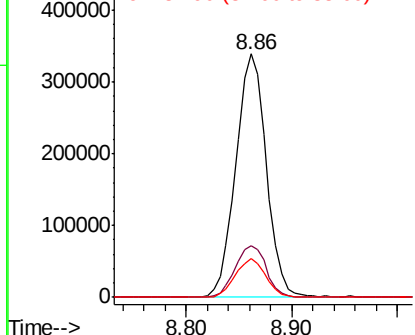
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: VD066653.D
 Acq: 11 Sep 2020 17:24

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 679375
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 43.2
 88 15.9 0.0 33.2

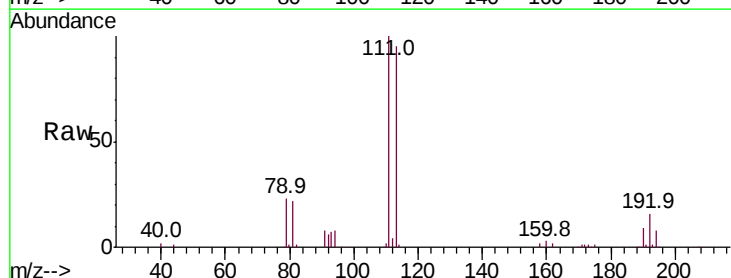


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

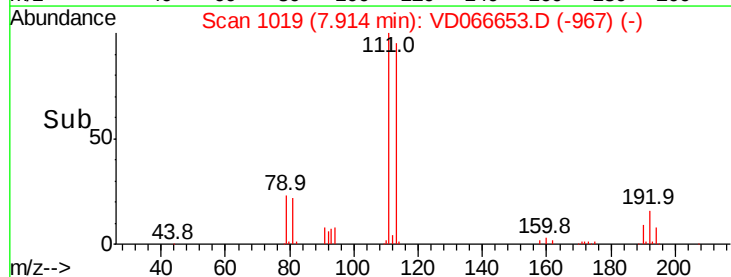
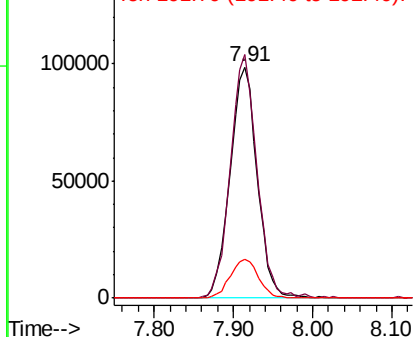


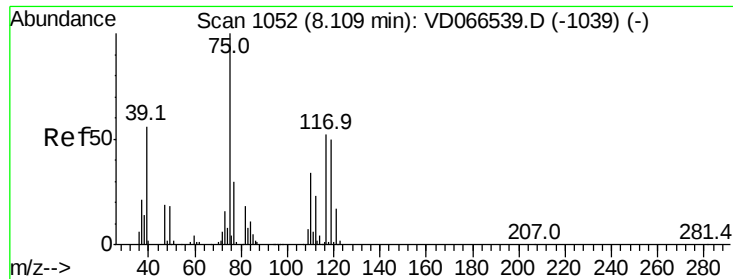
#35
 Dibromofluoromethane
 Concen: 50.983 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: VD066653.D
 Acq: 11 Sep 2020 17:24

Tgt Ion:113 Resp: 233662
 Ion Ratio Lower Upper
 113 100
 111 103.5 83.2 124.8
 192 17.7 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

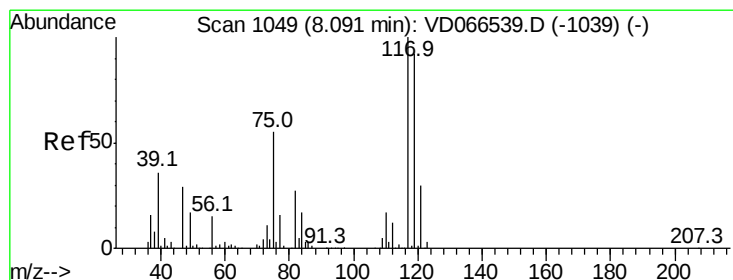
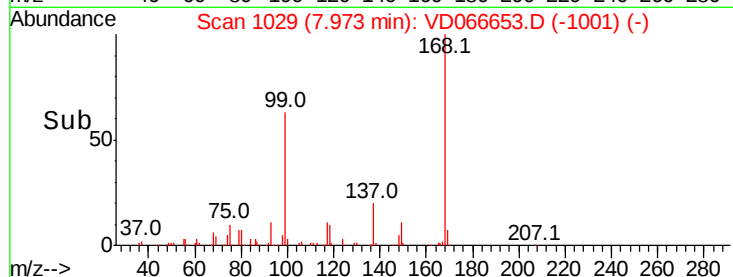
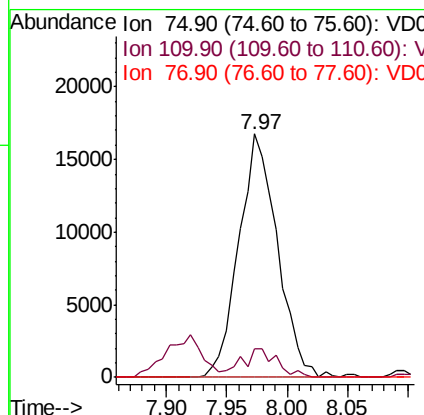
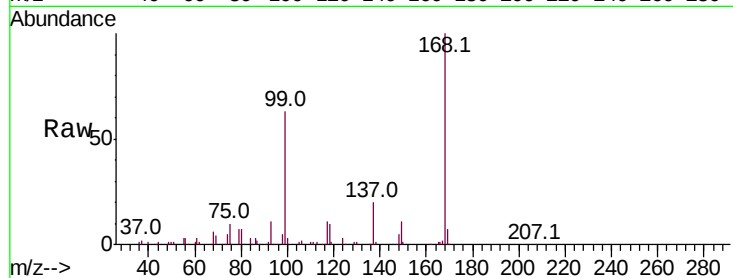




#36
 1,1-Dichloropropene
 Concen: 5.269 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD066653.D
 Acq: 11 Sep 2020 17:24

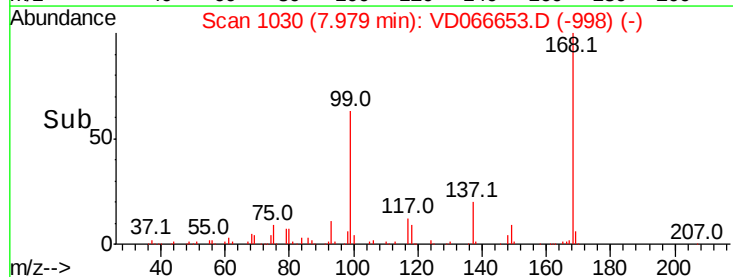
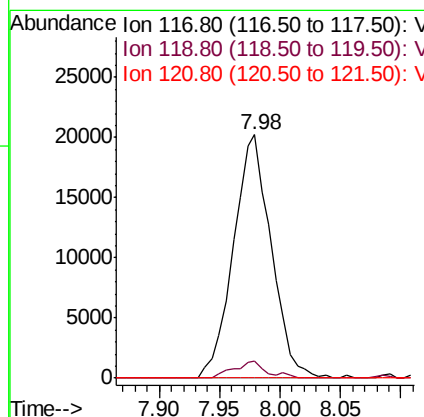
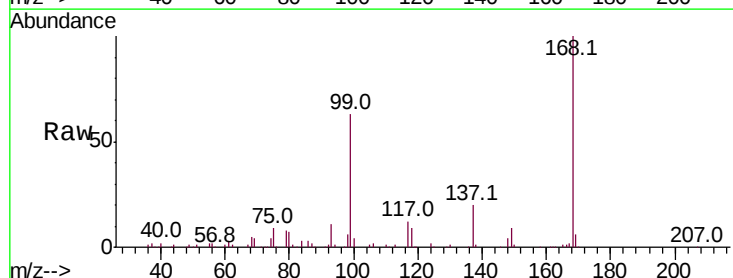
Instrument :
 MSVOA_D
 ClientSampleId :

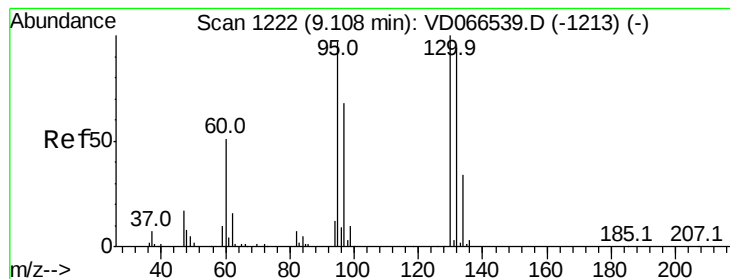
Tot Ion: 75 Resp: 37254
 Ion Ratio Lower Upper
 75 100
 110 10.8 17.3 52.0#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.885 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.11 min
 Lab File: VD066653.D
 Acq: 11 Sep 2020 17:24

Tgt Ion: 117 Resp: 43976
 Ion Ratio Lower Upper
 117 100
 119 6.8 73.9 110.9#
 121 0.0 24.1 36.1#





#44

Trichloroethene

Concen: 122.912 ug/l

RT: 9.11 min Scan# 1222

Delta R.T. -0.00 min

Lab File: VD066653.D

Acq: 11 Sep 2020 17:24

Instrument :

MSVOA_D

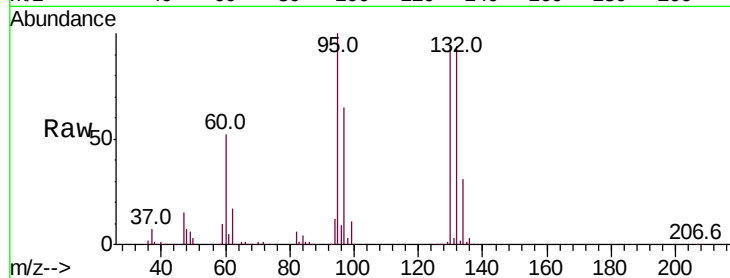
ClientSampleId :

Tot Ion:130 Resp: 624310

Ion Ratio Lower Upper

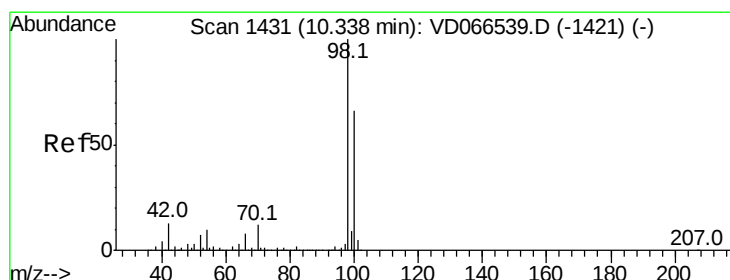
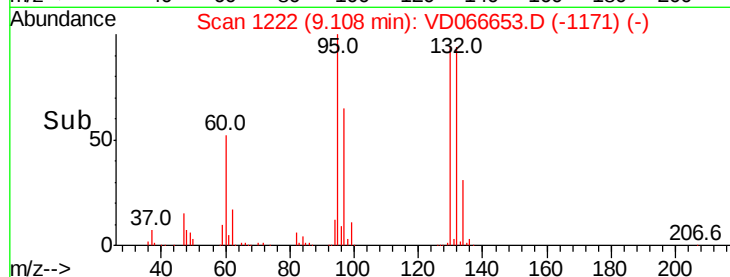
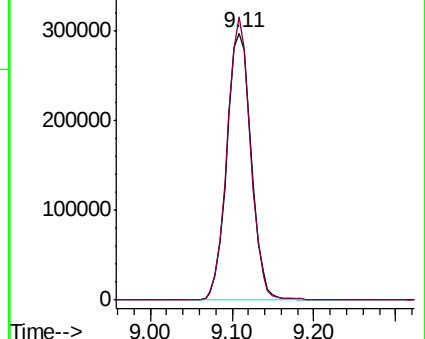
130 100

95 106.0 0.0 194.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: 50.320 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066653.D

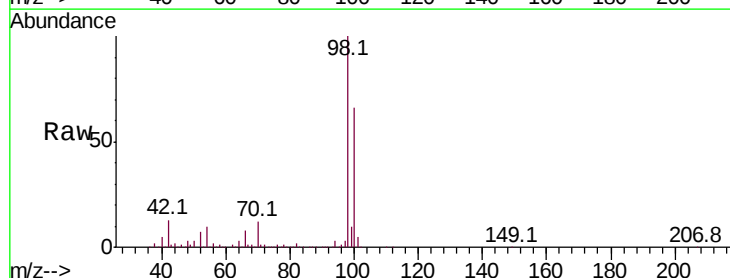
Acq: 11 Sep 2020 17:24

Tgt Ion: 98 Resp: 824281

Ion Ratio Lower Upper

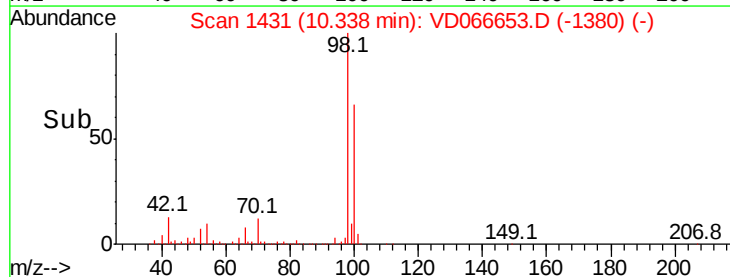
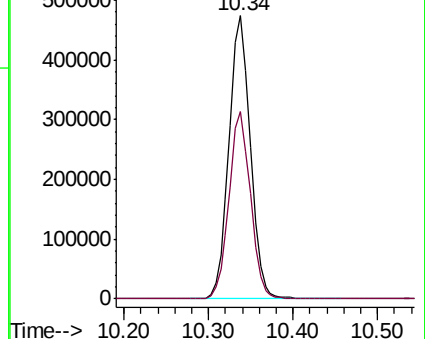
98 100

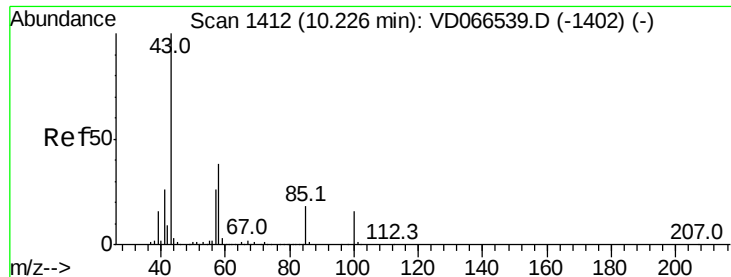
100 66.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

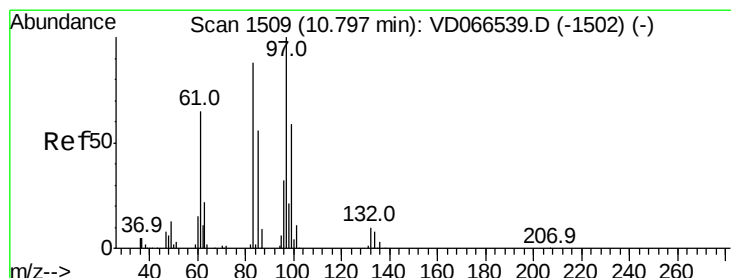
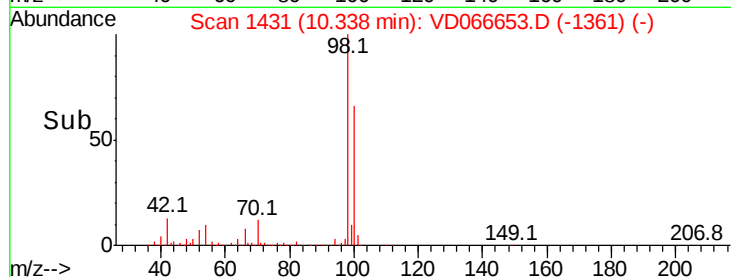
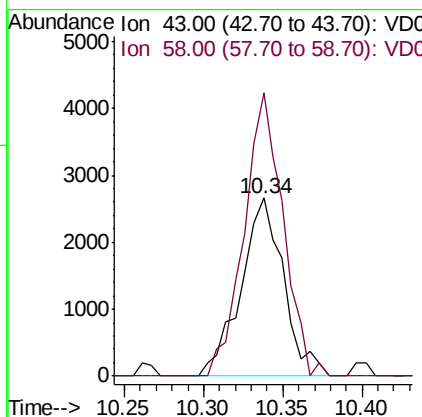
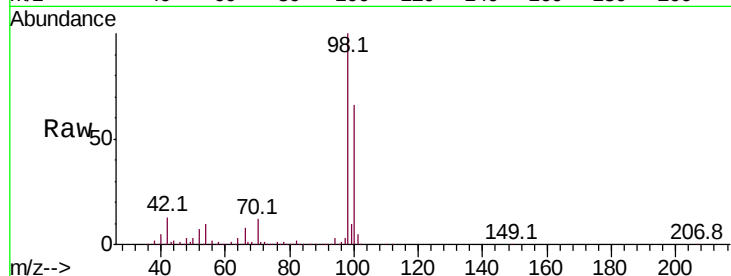




#51
4-Methyl-2-Pentanone
Concen: 1.831 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.11 min
Lab File: VD066653.D
Acq: 11 Sep 2020 17:24

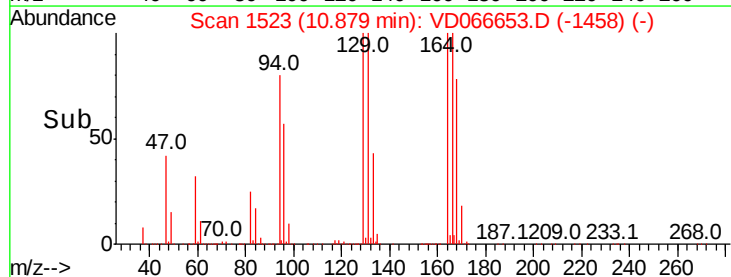
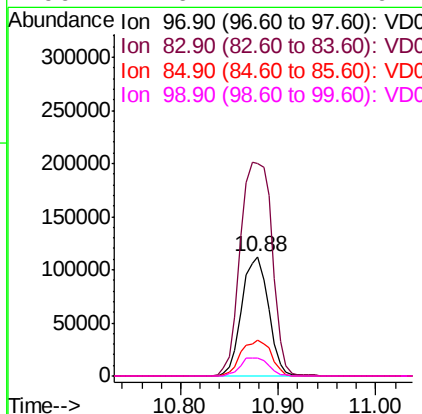
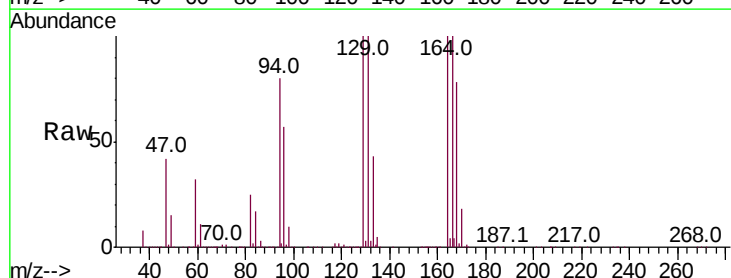
Instrument :
MSVOA_D
ClientSampleId :

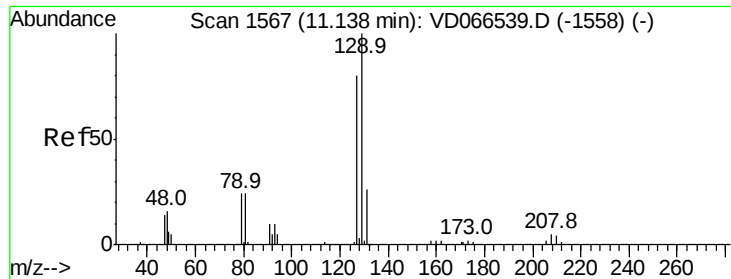
Tot Ion: 43 Resp: 4982
Ion Ratio Lower Upper
43 100
58 144.7 30.5 45.7#



#55
1,1,2-Trichloroethane
Concen: 62.429 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.08 min
Lab File: VD066653.D
Acq: 11 Sep 2020 17:24

Tgt Ion: 97 Resp: 215650
Ion Ratio Lower Upper
97 100
83 177.4 70.1 105.1#
85 30.4 44.5 66.7#
99 14.6 47.1 70.7#





#60

Dibromochloromethane

Concen: 4056.149 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. -0.26 min

Lab File: VD066653.D

Acq: 11 Sep 2020 17:24

Instrument :

MSVOA_D

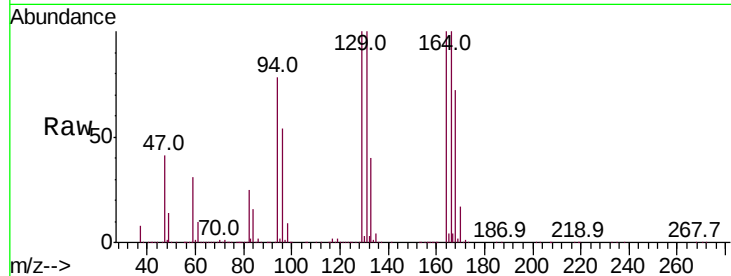
ClientSampleId :

Tot Ion:129 Resp:18528009

Ion Ratio Lower Upper

129 100

127 0.0 39.5 118.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.87

8000000

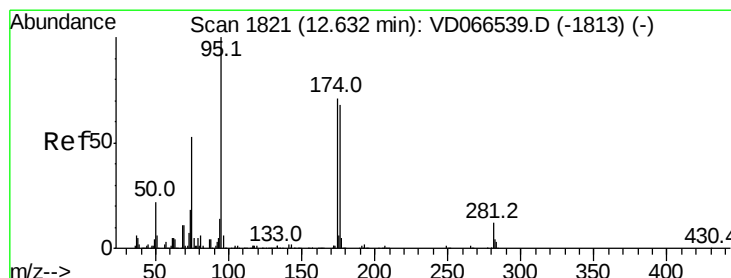
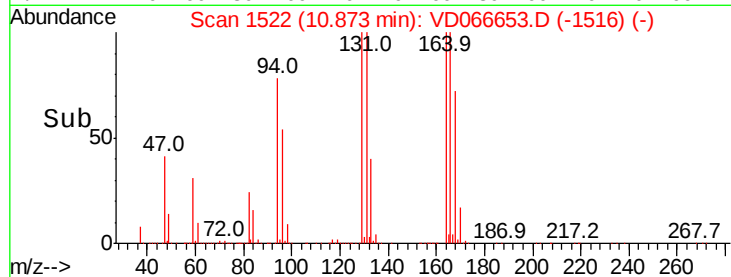
6000000

4000000

2000000

0

Time--> 10.80 10.90 11.00



#62

4-Bromofluorobenzene

Concen: 44.421 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066653.D

Acq: 11 Sep 2020 17:24

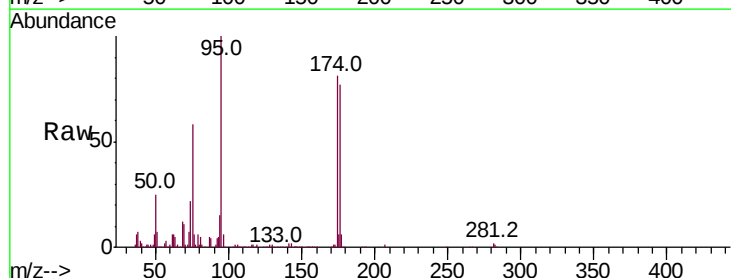
Tgt Ion: 95 Resp: 241283

Ion Ratio Lower Upper

95 100

174 77.0 0.0 155.8

176 73.1 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

12.63

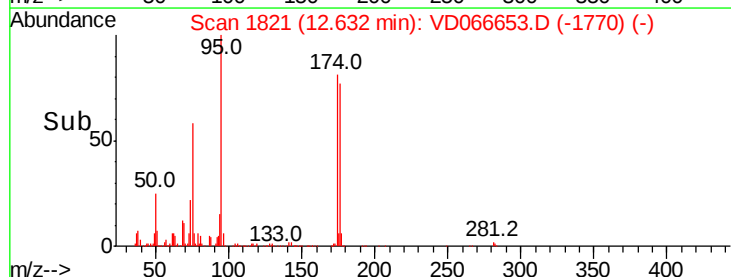
150000

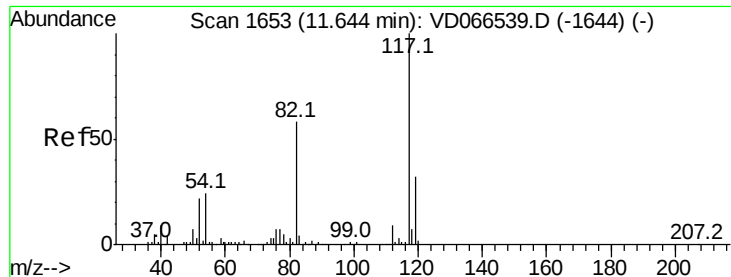
100000

50000

0

Time--> 12.55 12.60 12.65 12.70

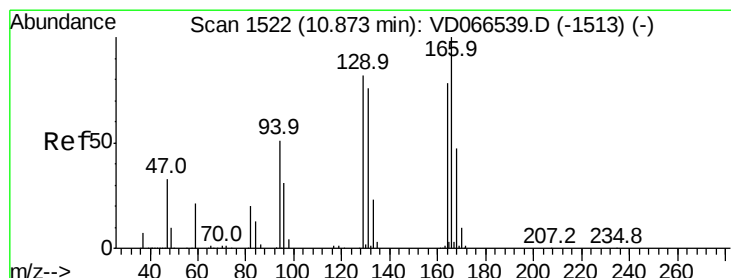
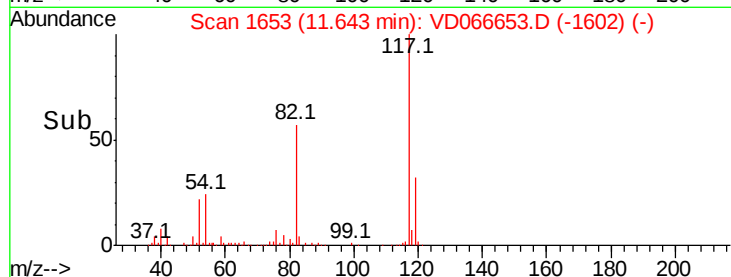
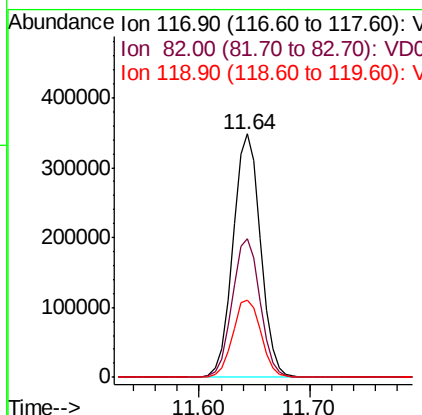
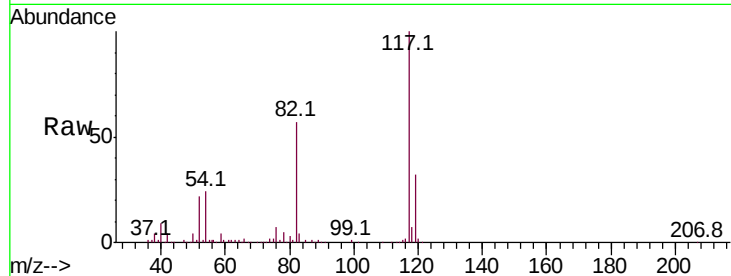




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066653.D
Acq: 11 Sep 2020 17:24

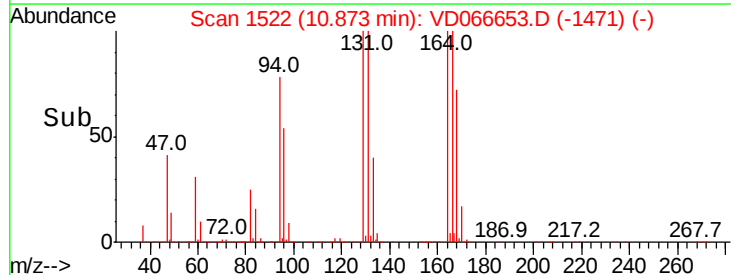
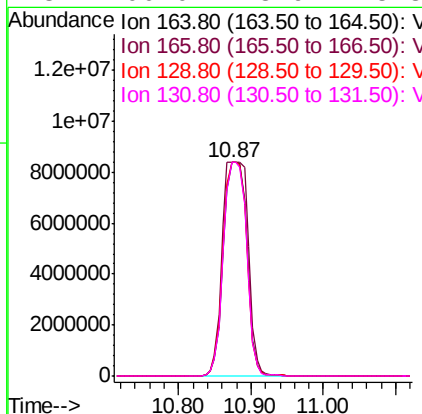
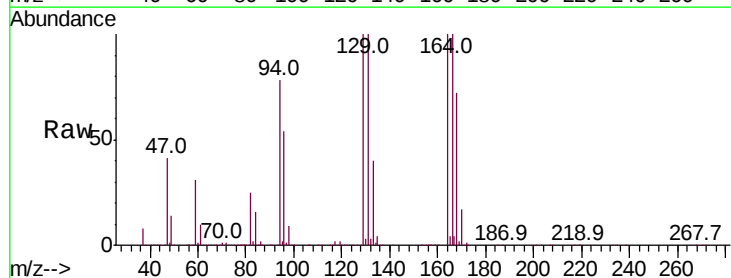
Instrument :
MSVOA_D
ClientSampleId :

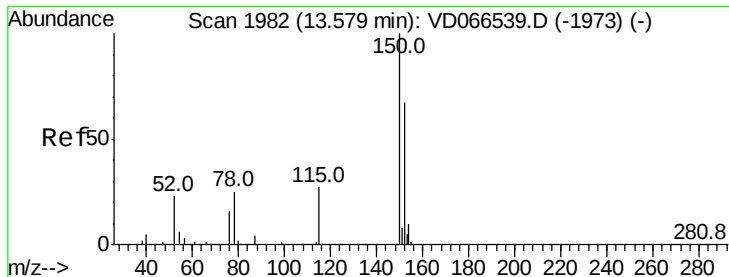
Tot Ion:117 Resp: 610749
Ion Ratio Lower Upper
117 100
82 56.8 46.2 69.2
119 31.7 25.8 38.8



#64
Tetrachloroethene
Concen: 4577.949 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD066653.D
Acq: 11 Sep 2020 17:24

Tgt Ion:164 Resp:18825422
Ion Ratio Lower Upper
164 100
166 100.0 103.2 154.8#
129 100.0 84.5 126.7
131 100.0 78.9 118.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066653.D

Acq: 11 Sep 2020 17:24

Instrument :

MSVOA_D

ClientSampled :

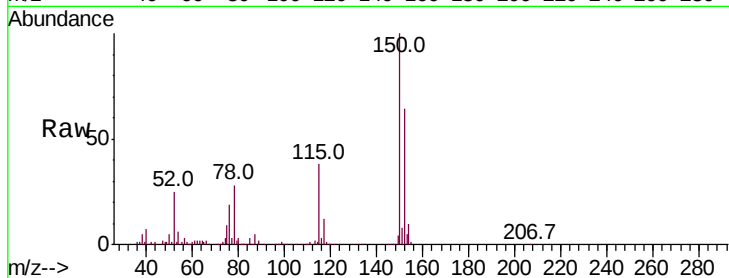
Tot Ion:152 Resp: 219800

Ion Ratio Lower Upper

152 100

115 61.7 30.4 91.2

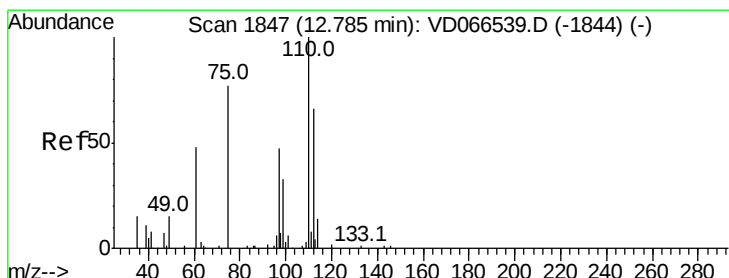
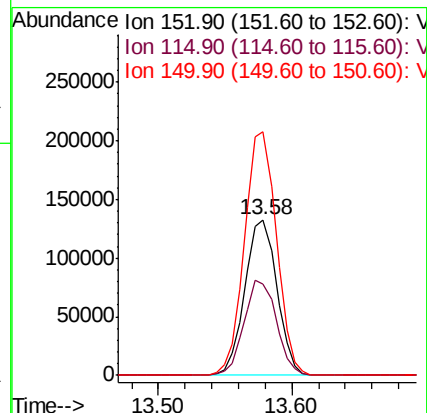
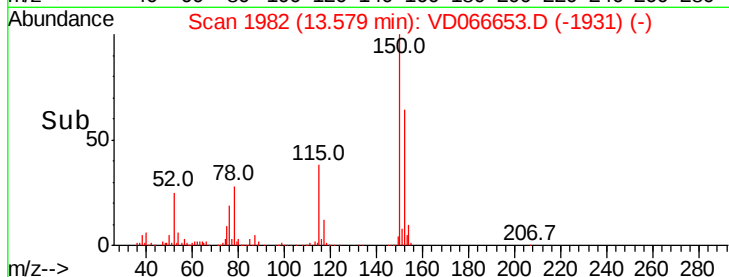
150 156.9 0.0 345.8



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: 64.491 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066653.D

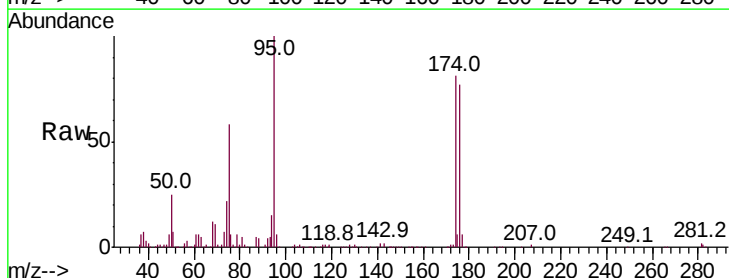
Acq: 11 Sep 2020 17:24

Tgt Ion: 75 Resp: 136327

Ion Ratio Lower Upper

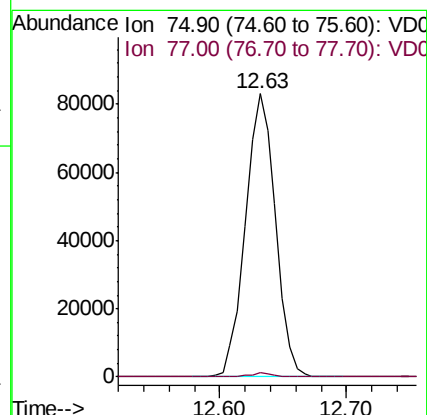
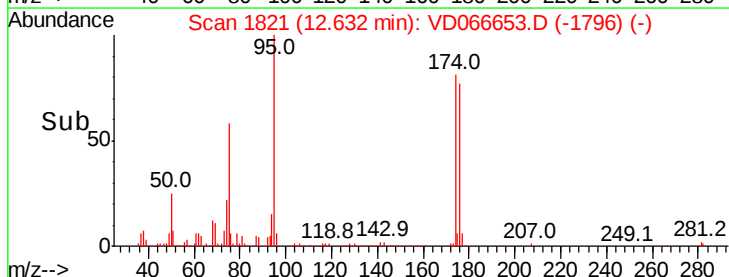
75 100

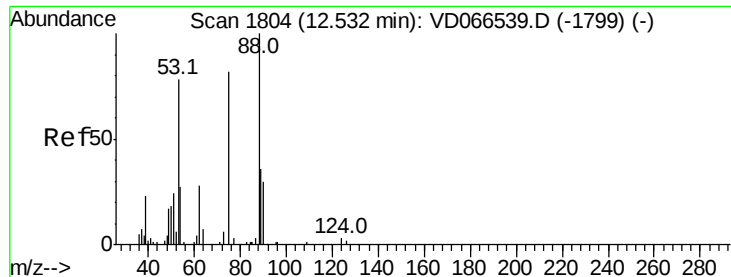
77 1.1 0.0 0.0#



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: 150.564 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066653.D

Acq: 11 Sep 2020 17:24

Instrument :

MSVOA_D

ClientSampleId :

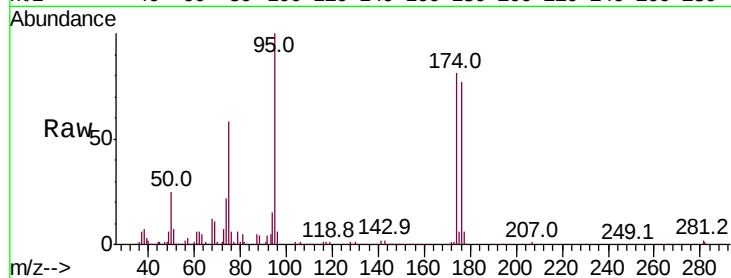
Tot Ion: 75 Resp: 136327

Ion Ratio Lower Upper

75 100

53 0.2 87.0 130.4#

89 0.0 37.1 55.7#



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

