

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD033120\
 Data File : VD065572.D
 Acq On : 31 Mar 2020 18:09
 Operator : VA/SY
 Sample : L2067-02RE
 Misc : 7.41G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 01 05:56:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032620S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 01:47:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	525955	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	946628	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	915081	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	419222	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	273859	62.55	ug/l	0.00
Spiked Amount			Recovery	=	125.10%	
35) Dibromofluoromethane	7.93	113	317556	54.35	ug/l	0.00
Spiked Amount			Recovery	=	108.70%	
50) Toluene-d8	10.34	98	1161203	52.93	ug/l	0.00
Spiked Amount			Recovery	=	105.86%	
62) 4-Bromofluorobenzene	12.64	95	370014	53.14	ug/l	0.00
Spiked Amount			Recovery	=	106.28%	

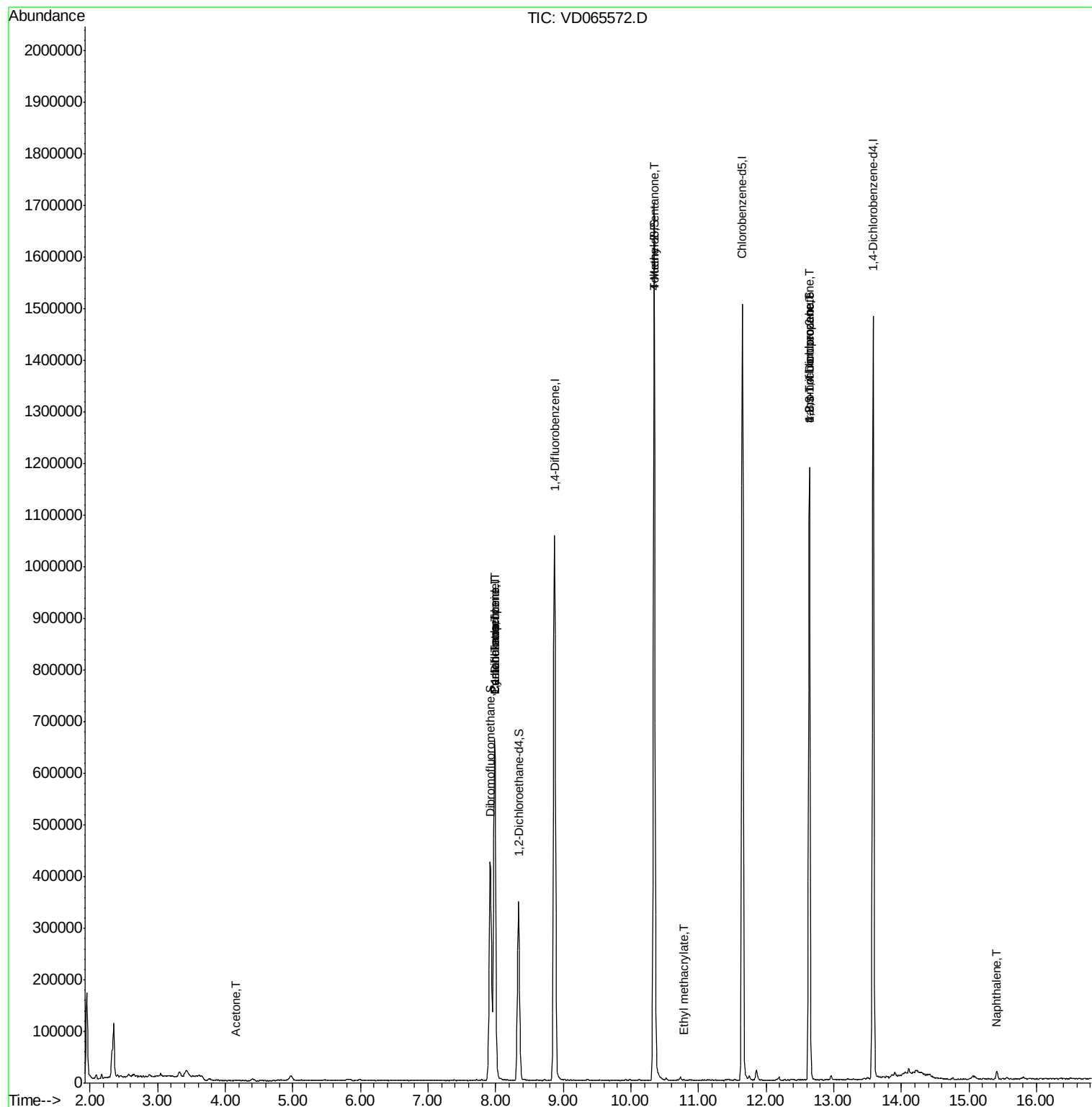
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	151	Below Cal	#	42
3) Chloromethane	2.21	50	274	Below Cal	#	42
5) Bromomethane	2.78	94	85	Below Cal	#	50
16) Acetone	4.16	43	1477	1.788	ug/l #	84
20) Methylene Chloride	4.97	84	6934	Below Cal	#	94
31) Cyclohexane	7.98	56	9995	1.214	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	35430	4.096	ug/l #	48
38) Carbon Tetrachloride	7.99	117	47746	5.241	ug/l #	17
51) 4-Methyl-2-Pentanone	10.34	43	5063	1.669	ug/l #	1
56) Ethyl methacrylate	10.78	69	54	3.302	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	179719	55.761	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	179719	124.469	ug/l #	13
95) Naphthalene	15.41	128	13605	5.282	ug/l	95

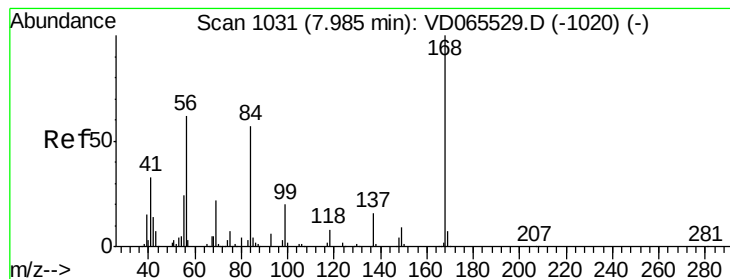
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065572.D

Acq: 31 Mar 2020 18:09

Instrument :

MSVOA_D

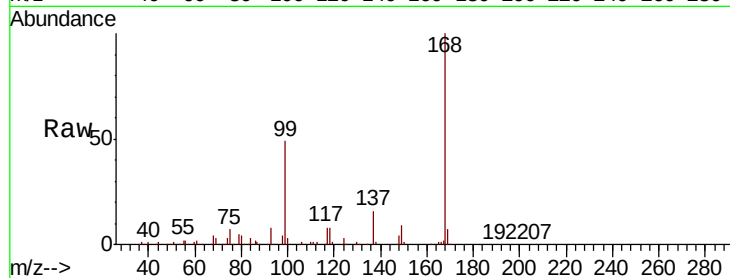
ClientSampleId :

Tot Ion:168 Resp: 525955

Ion Ratio Lower Upper

168 100

99 49.0 39.1 58.7



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

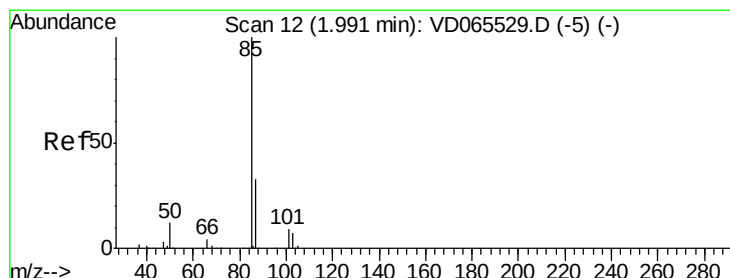
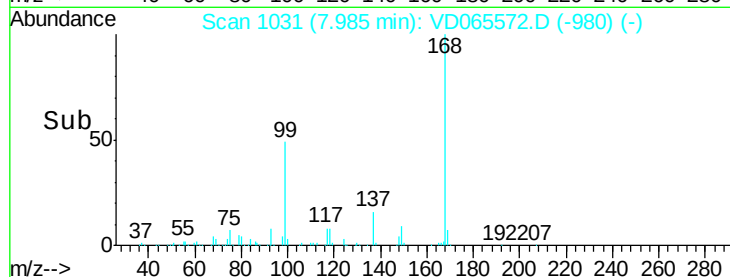
0

Time-->

7.90

8.00

8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065572.D

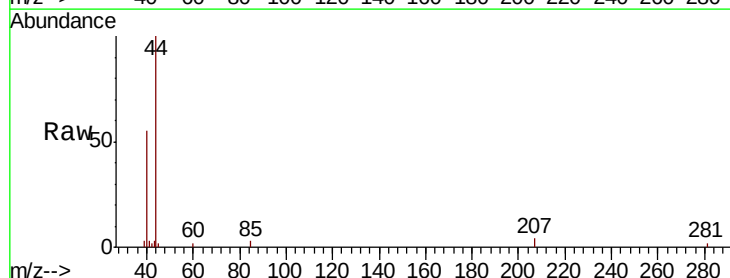
Acq: 31 Mar 2020 18:09

Tgt Ion: 85 Resp: 151

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.2#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

300

250

200

150

100

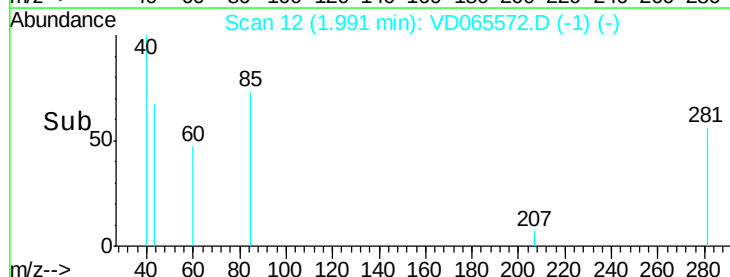
50

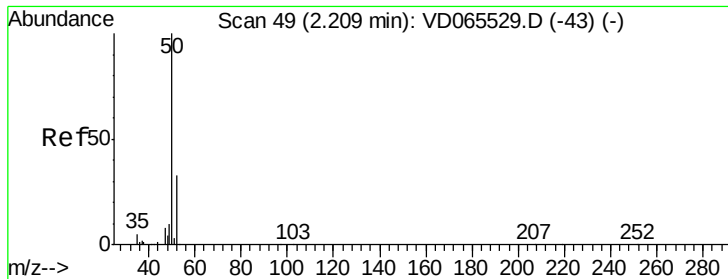
0

Time-->

1.98

2.00





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD065572.D

Acq: 31 Mar 2020 18:09

Instrument :

MSVOA_D

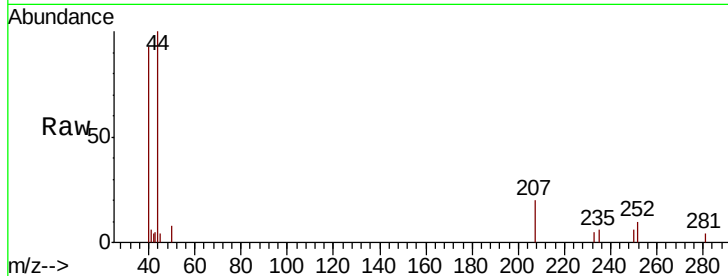
ClientSampleId :

Tot Ion: 50 Resp: 274

Ion Ratio Lower Upper

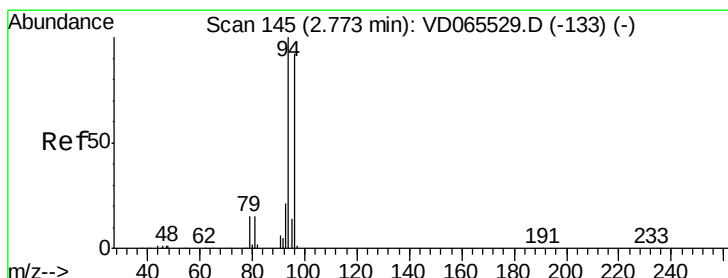
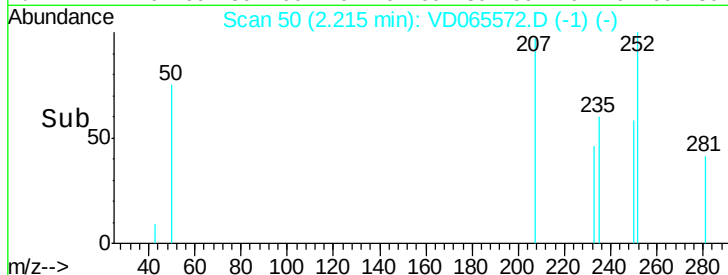
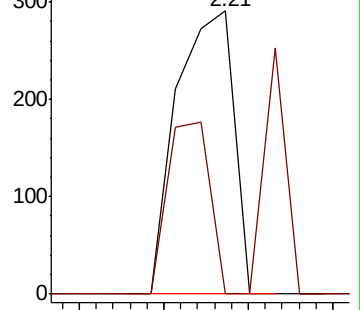
50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065572.D

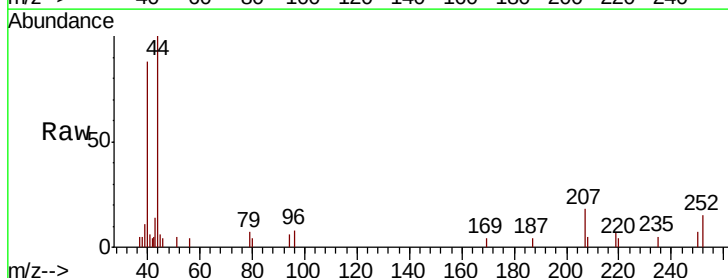
Acq: 31 Mar 2020 18:09

Tgt Ion: 94 Resp: 85

Ion Ratio Lower Upper

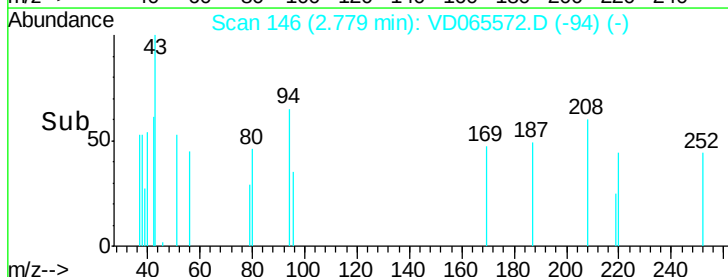
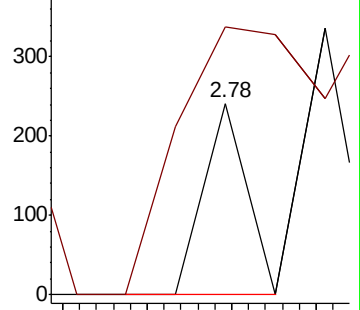
94 100

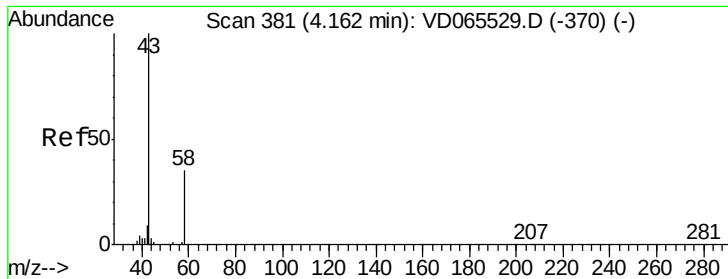
96 139.8 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 1.788 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.00 min

Lab File: VD065572.D

Acq: 31 Mar 2020 18:09

Instrument :

MSVOA_D

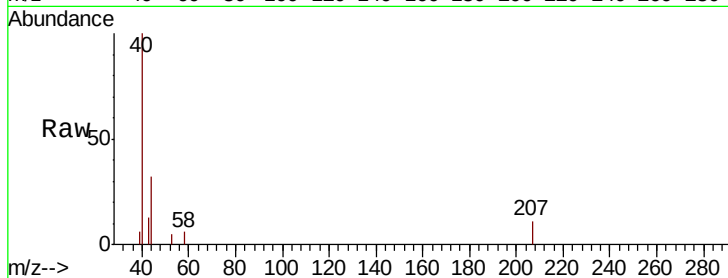
ClientSampleId :

Tot Ion: 43 Resp: 1477

Ion Ratio Lower Upper

43 100

58 43.9 27.9 41.9#



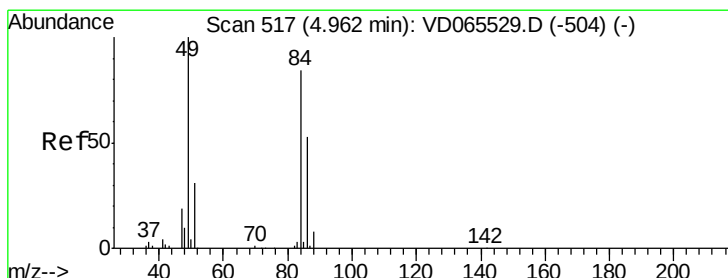
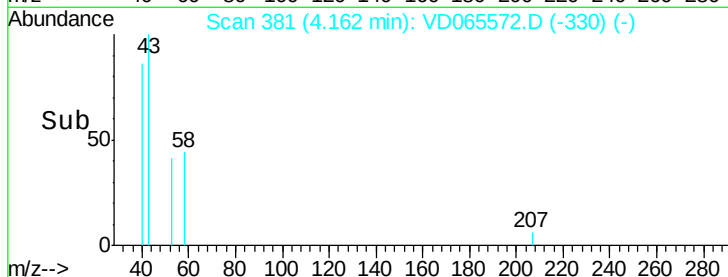
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

4.15 4.20 4.25

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD065572.D

Acq: 31 Mar 2020 18:09

Tgt Ion: 84 Resp: 6934

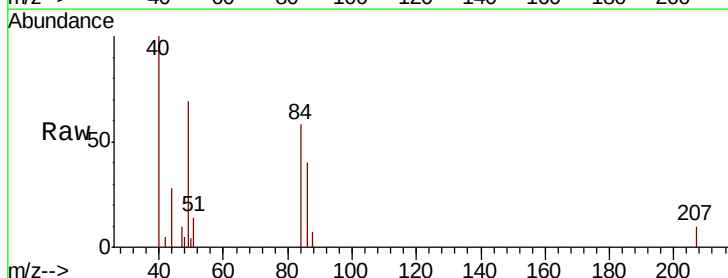
Ion Ratio Lower Upper

84 100

49 118.9 95.6 143.4

51 24.0 29.4 44.2#

86 69.2 50.6 76.0



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

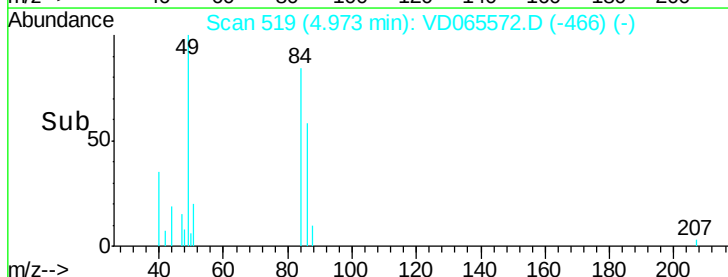
Ion 50.90 (50.60 to 51.60): VDC

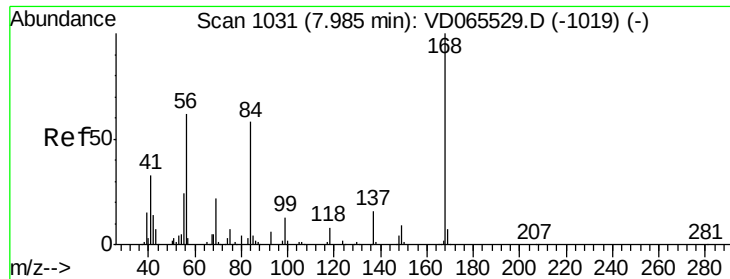
Ion 85.90 (85.60 to 86.60): VDC

4.97

4.95 5.00 5.05

Time-->

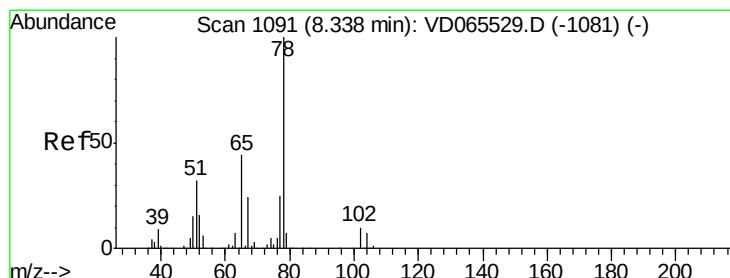
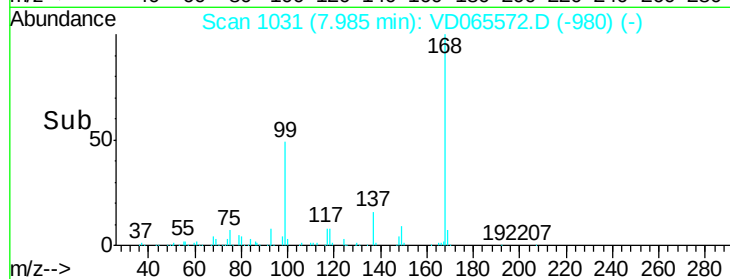
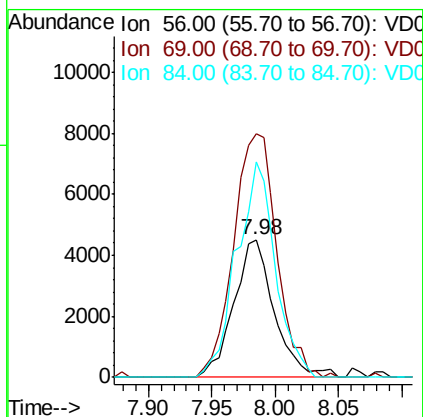
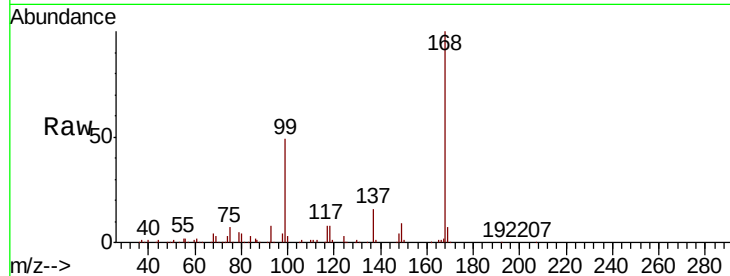




#31
Cyclohexane
Concen: 1.214 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065572.D
Acq: 31 Mar 2020 18:09

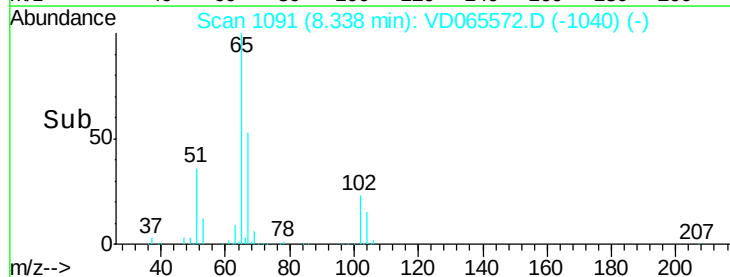
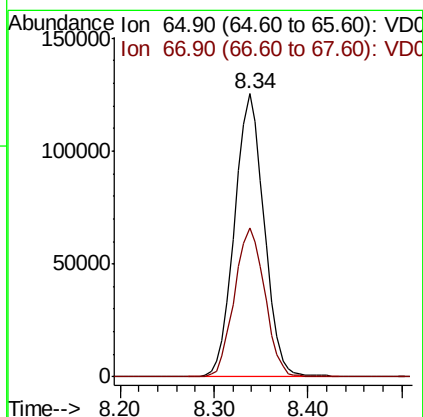
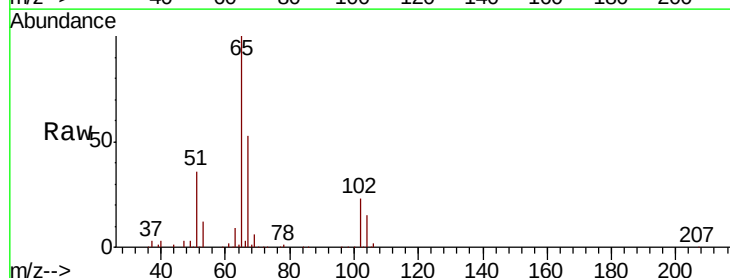
Instrument :
MSVOA_D
ClientSampled :

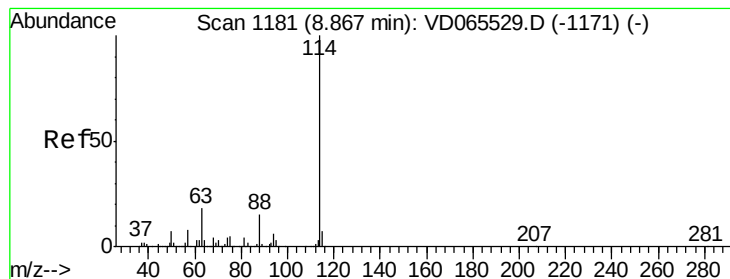
Tot Ion: 56 Resp: 9995
Ion Ratio Lower Upper
56 100
69 176.5 28.2 42.4#
84 155.9 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 62.551 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD065572.D
Acq: 31 Mar 2020 18:09

Tgt Ion: 65 Resp: 273859
Ion Ratio Lower Upper
65 100
67 54.3 0.0 107.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD065572.D

Acq: 31 Mar 2020 18:09

Instrument :

MSVOA_D

ClientSampleId :

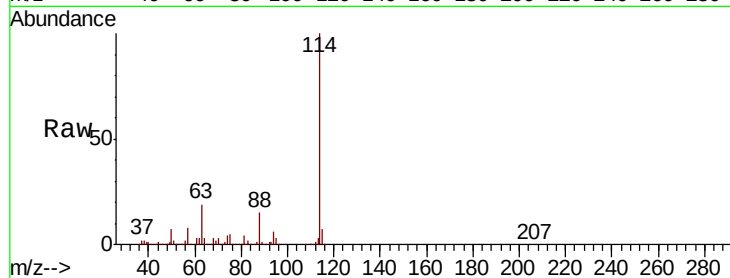
Tot Ion:114 Resp: 946628

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.0

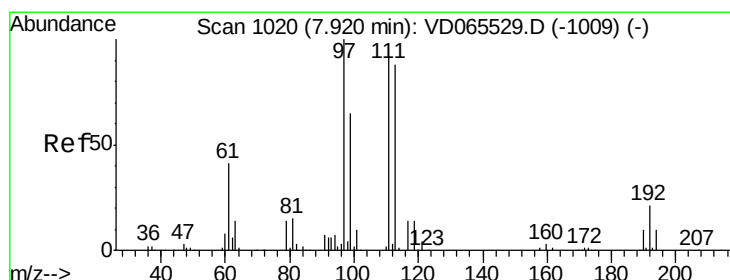
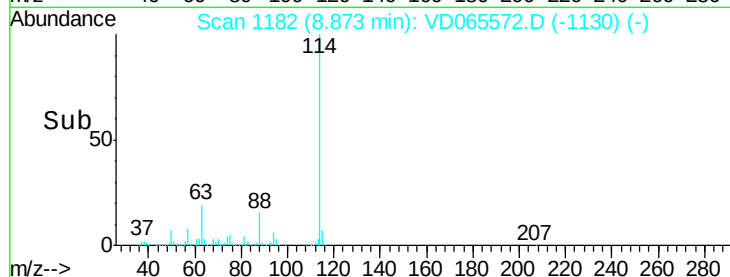
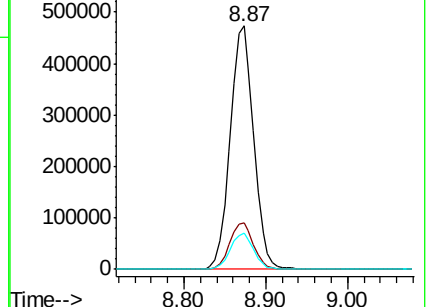
88 14.7 0.0 30.4



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



#35

Dibromofluoromethane

Concen: 54.348 ug/l

RT: 7.93 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VD065572.D

Acq: 31 Mar 2020 18:09

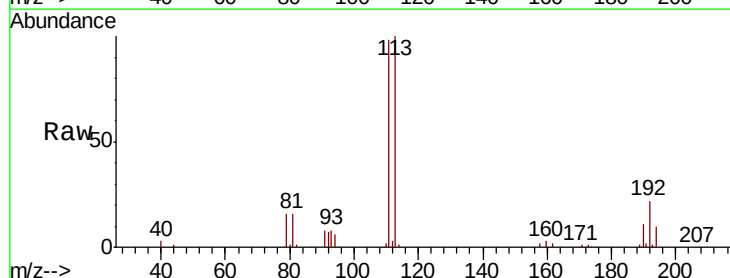
Tgt Ion:113 Resp: 317556

Ion Ratio Lower Upper

113 100

111 100.5 83.3 124.9

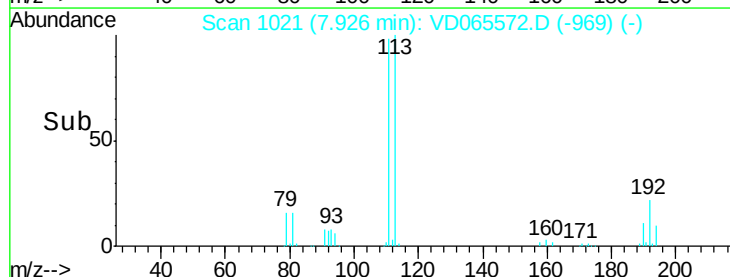
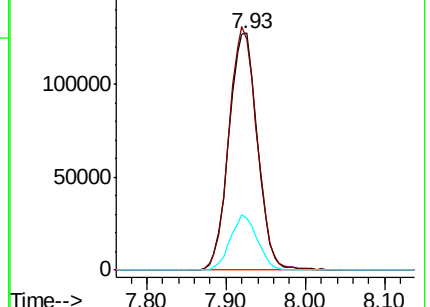
192 22.1 18.5 27.7

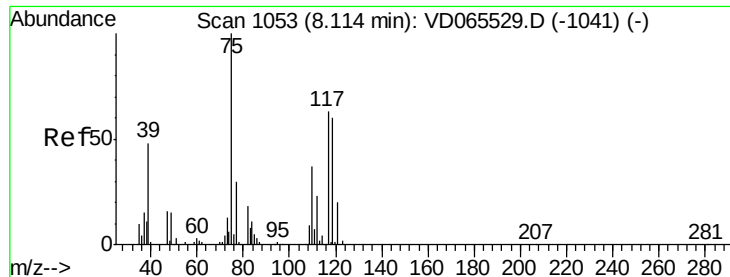


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

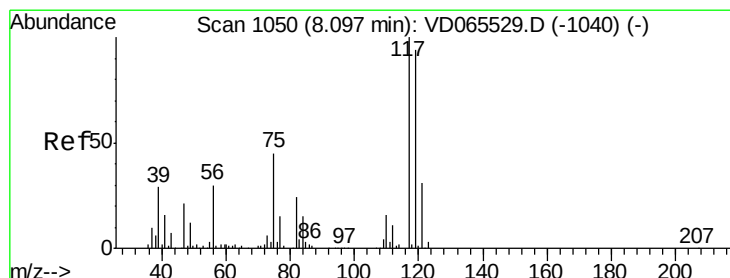
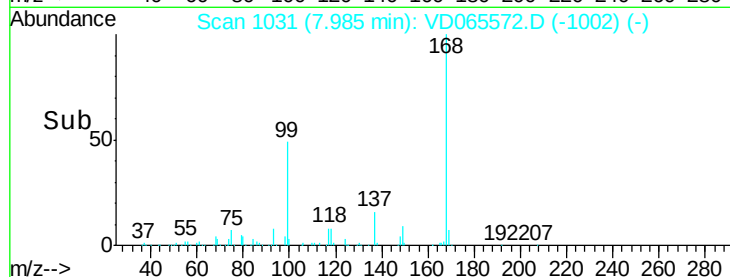
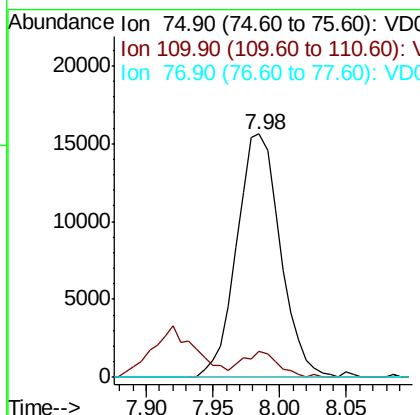
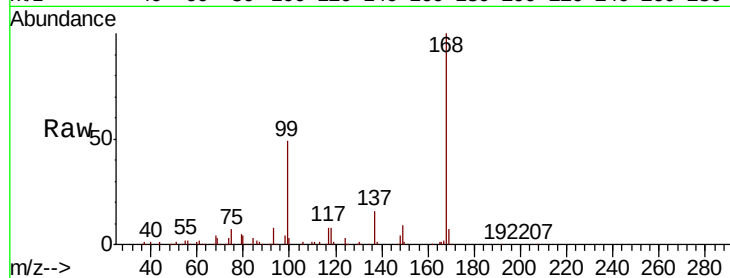




#36
 1,1-Dichloropropene
 Concen: 4.096 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD065572.D
 Acq: 31 Mar 2020 18:09

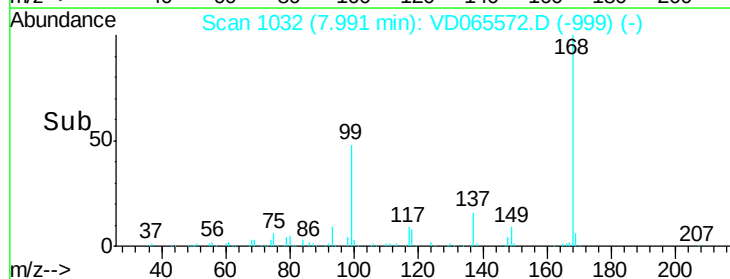
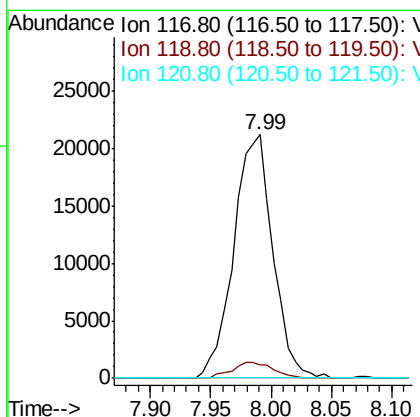
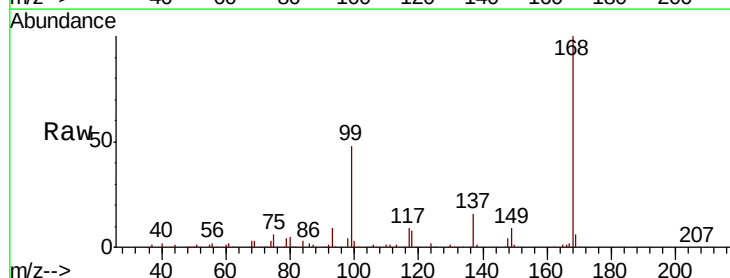
Instrument :
 MSVOA_D
 ClientSampleId :

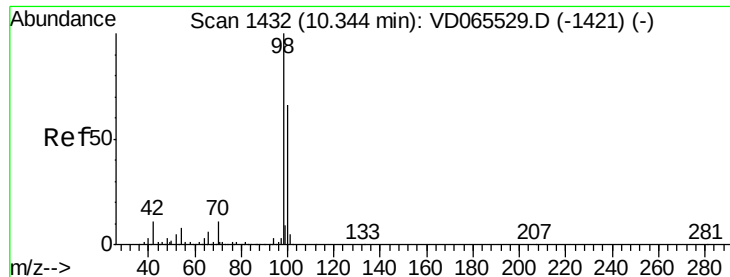
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.8	56.4#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 5.241 ug/l
 RT: 7.99 min Scan# 1032
 Delta R.T. -0.11 min
 Lab File: VD065572.D
 Acq: 31 Mar 2020 18:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	75.2	112.8#
121	0.0	24.5	36.7#

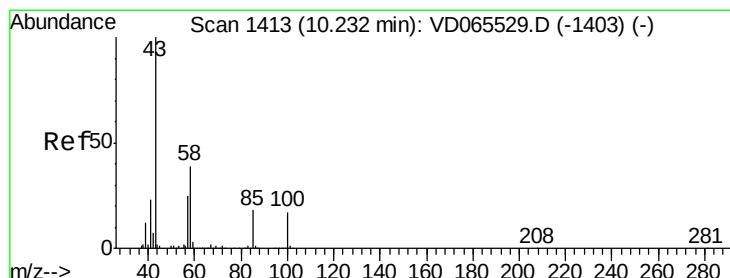
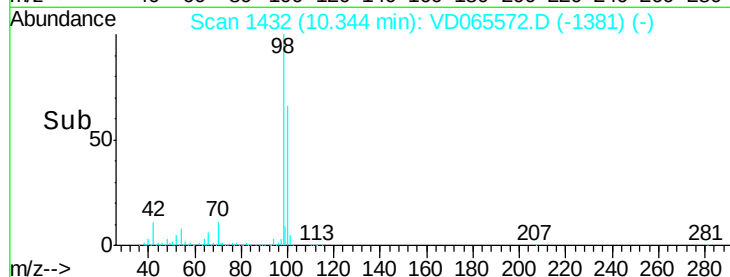
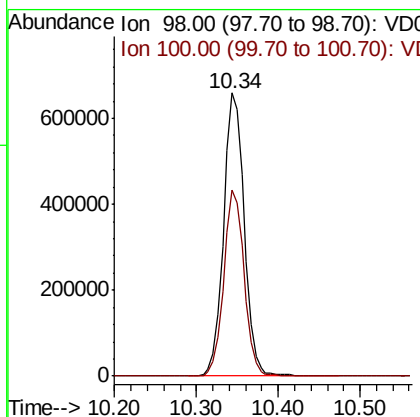
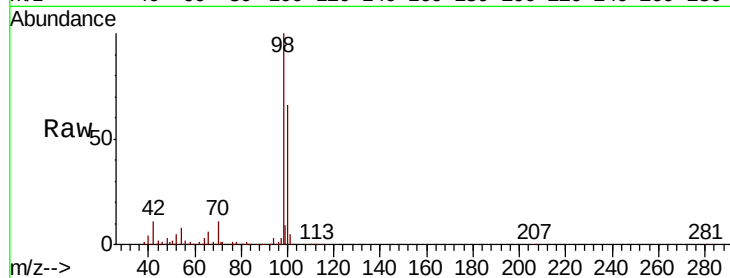




#50
Toluene-d8
Concen: 52.935 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065572.D
Acq: 31 Mar 2020 18:09

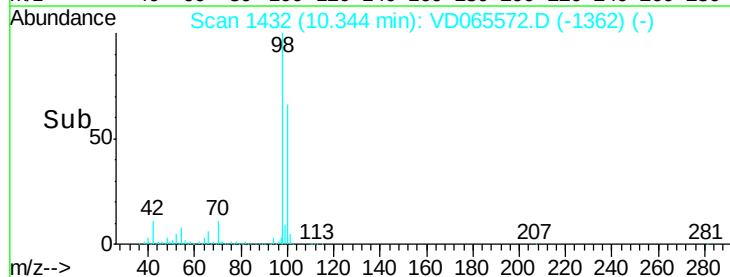
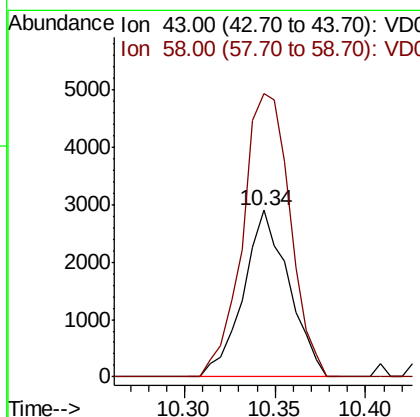
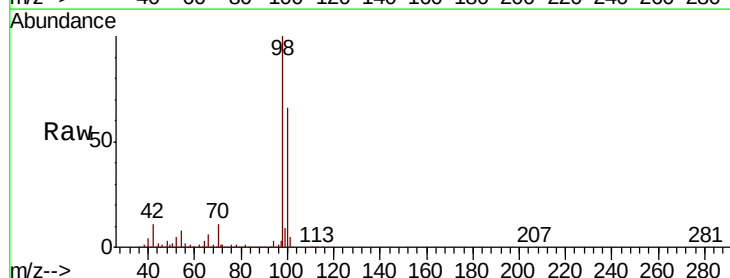
Instrument :
MSVOA_D
ClientSampleId :

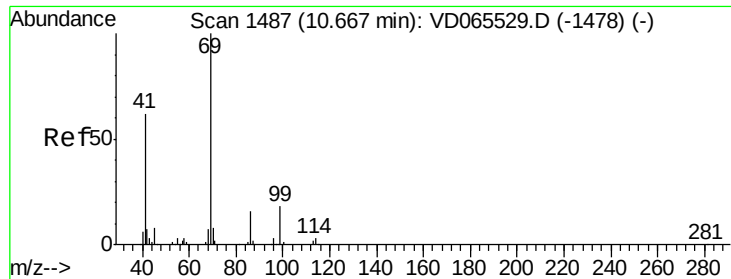
Tot Ion: 98 Resp: 1161203
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 1.669 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.11 min
Lab File: VD065572.D
Acq: 31 Mar 2020 18:09

Tgt Ion: 43 Resp: 5063
Ion Ratio Lower Upper
43 100
58 177.6 31.4 47.2#

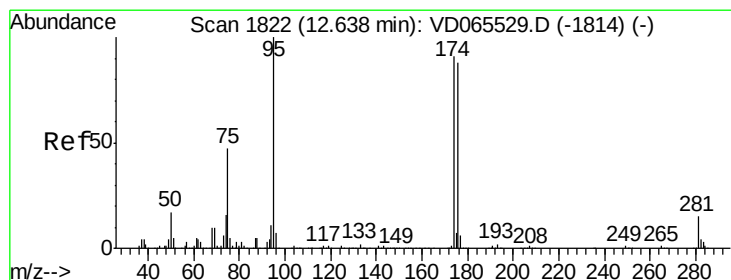
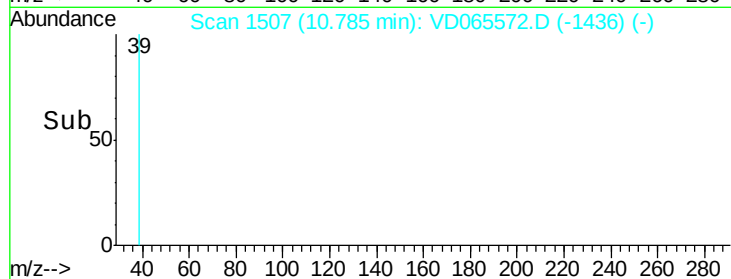
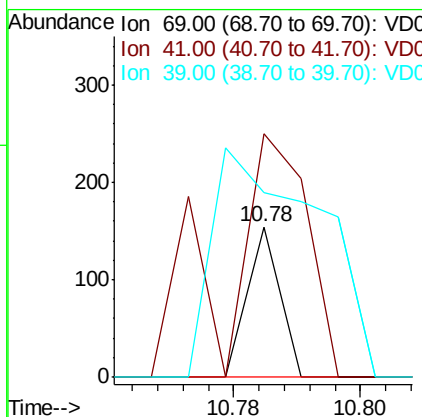
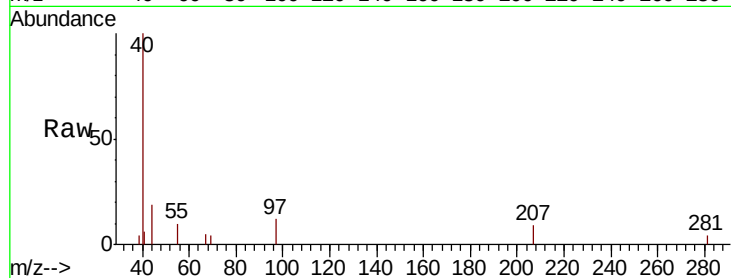




#56
Ethyl methacrylate
Concen: 3.302 ug/l
RT: 10.78 min Scan# 1507
Delta R.T. 0.12 min
Lab File: VD065572.D
Acq: 31 Mar 2020 18:09

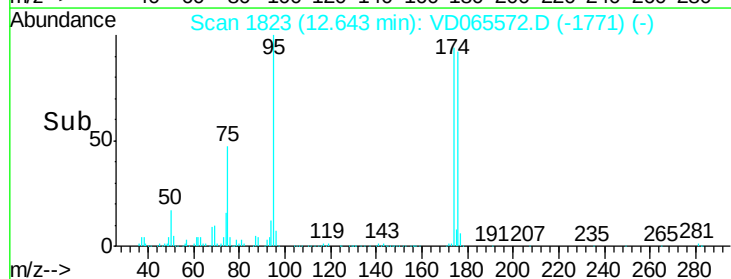
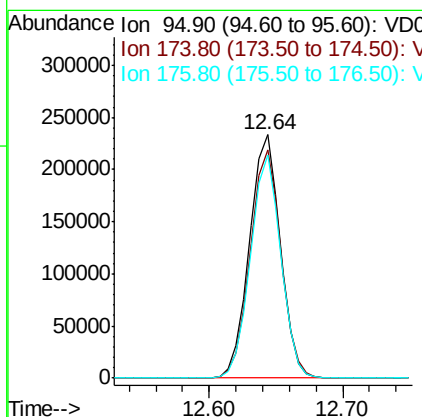
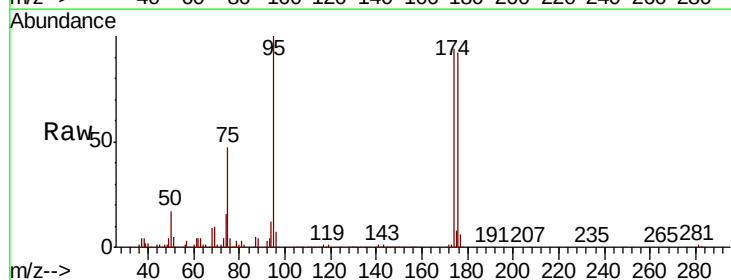
Instrument :
MSVOA_D
ClientSampleId :

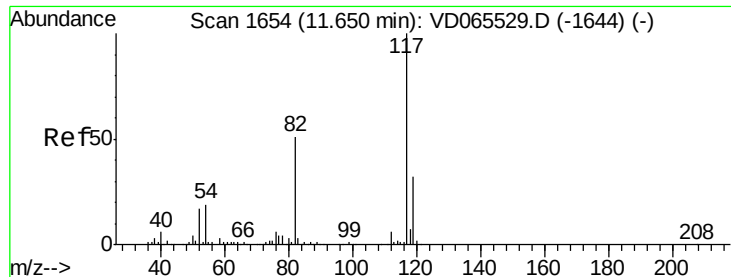
Tot Ion: 69 Resp: 54
Ion Ratio Lower Upper
69 100
41 418.5 51.3 76.9#
39 501.9 25.3 37.9#



#62
4-Bromofluorobenzene
Concen: 53.145 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VD065572.D
Acq: 31 Mar 2020 18:09

Tgt Ion: 95 Resp: 370014
Ion Ratio Lower Upper
95 100
174 93.7 0.0 183.8
176 90.1 0.0 178.2

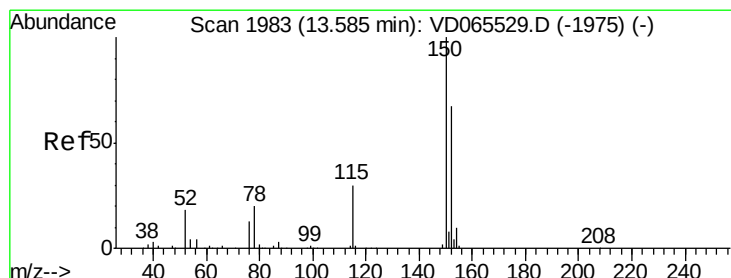
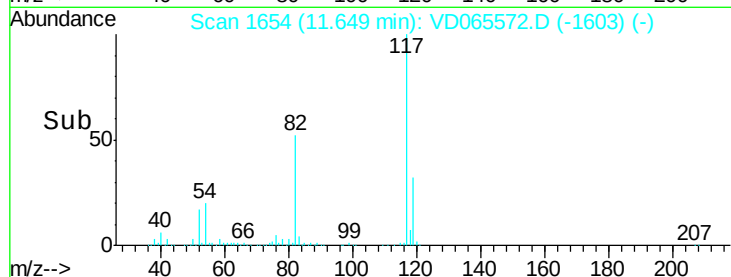
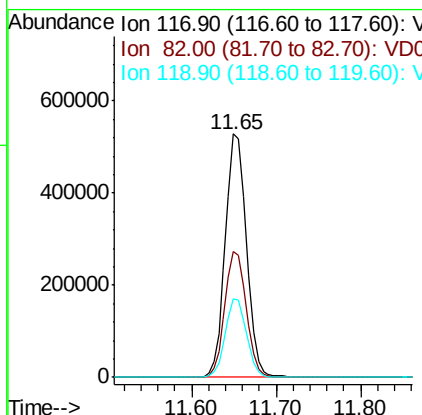
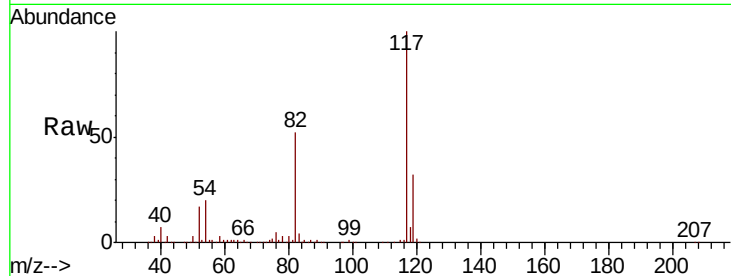




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065572.D
Acq: 31 Mar 2020 18:09

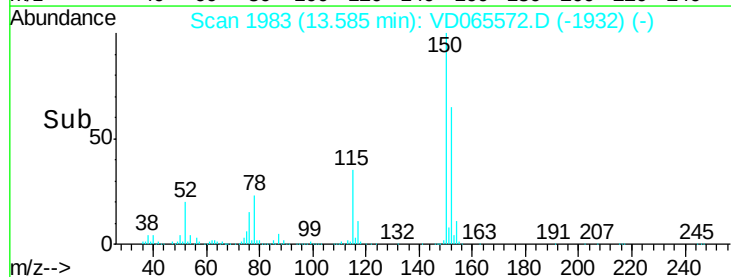
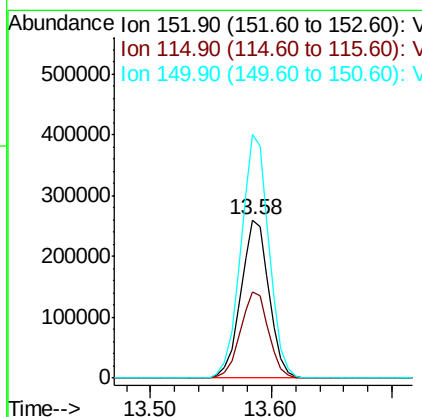
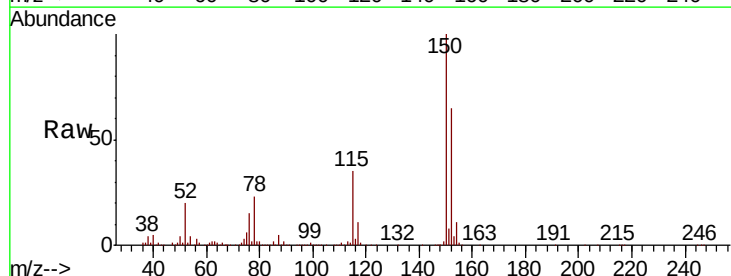
Instrument :
MSVOA_D
ClientSampleId :

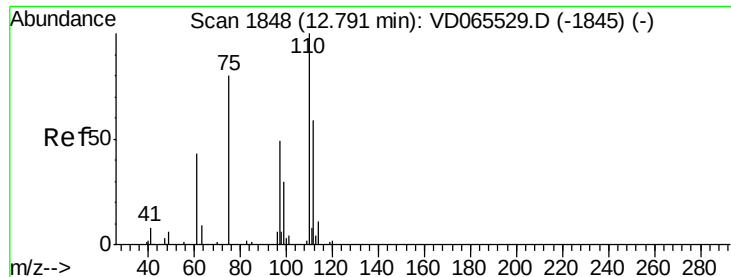
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.6	41.0	61.6
119	32.2	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065572.D
Acq: 31 Mar 2020 18:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	27.2	81.6
150	154.3	0.0	340.2





#76

1,2,3-Trichloropropane

Concen: 55.761 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD065572.D

Acq: 31 Mar 2020 18:09

Instrument :

MSVOA_D

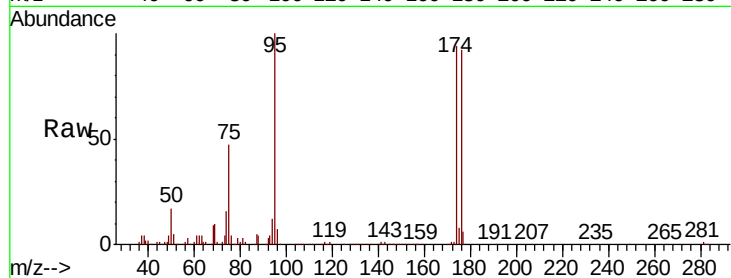
ClientSampleId :

Tot Ion: 75 Resp: 179719

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

120000

100000

80000

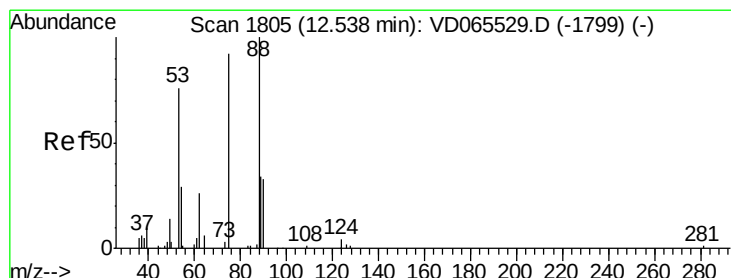
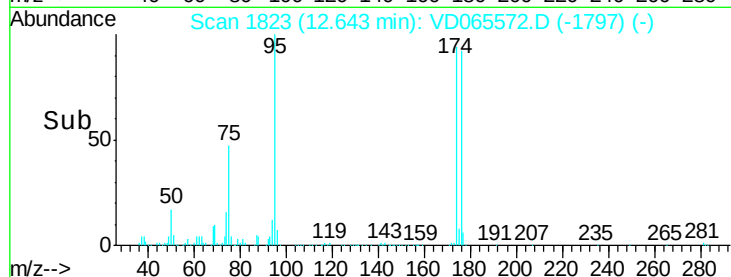
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 124.469 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065572.D

Acq: 31 Mar 2020 18:09

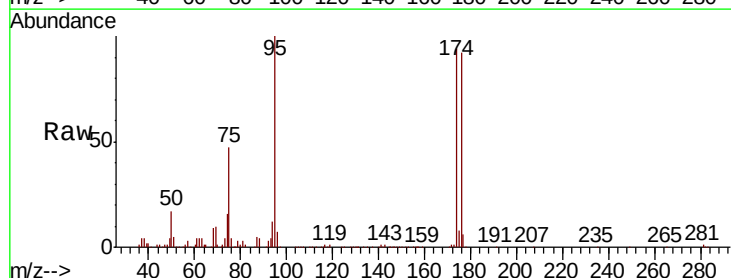
Tgt Ion: 75 Resp: 179719

Ion Ratio Lower Upper

75 100

53 0.1 72.4 108.6#

89 0.1 36.9 55.3#



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

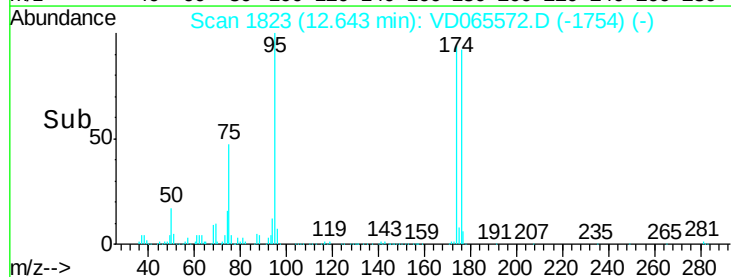
150000

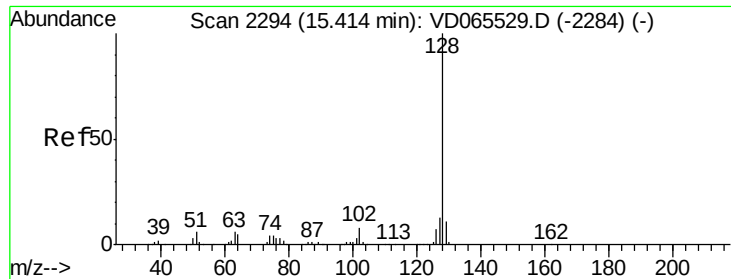
100000

50000

0

Time-->

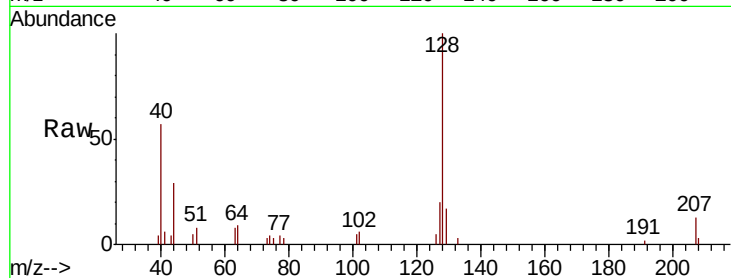




#95
 Naphthalene
 Concen: 5.282 ug/l
 RT: 15.41 min Scan# 2294
 Delta R.T. -0.00 min
 Lab File: VD065572.D
 Acq: 31 Mar 2020 18:09

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.5	10.4	15.6
129	12.4	8.7	13.1



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

