

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032720\
 Data File : VD065539.D
 Acq On : 27 Mar 2020 12:51
 Operator : VA/SY
 Sample : L1753-09
 Misc : 7.61G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 30 06:33:27 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	526192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	936916	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	910951	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	357830	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	284604	64.98	ug/l	0.00
Spiked Amount			Recovery	=	129.96%	
35) Dibromofluoromethane	7.92	113	317135	54.84	ug/l	0.00
Spiked Amount			Recovery	=	109.68%	
50) Toluene-d8	10.34	98	1123022	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
62) 4-Bromofluorobenzene	12.64	95	368304	53.45	ug/l	0.00
Spiked Amount			Recovery	=	106.90%	

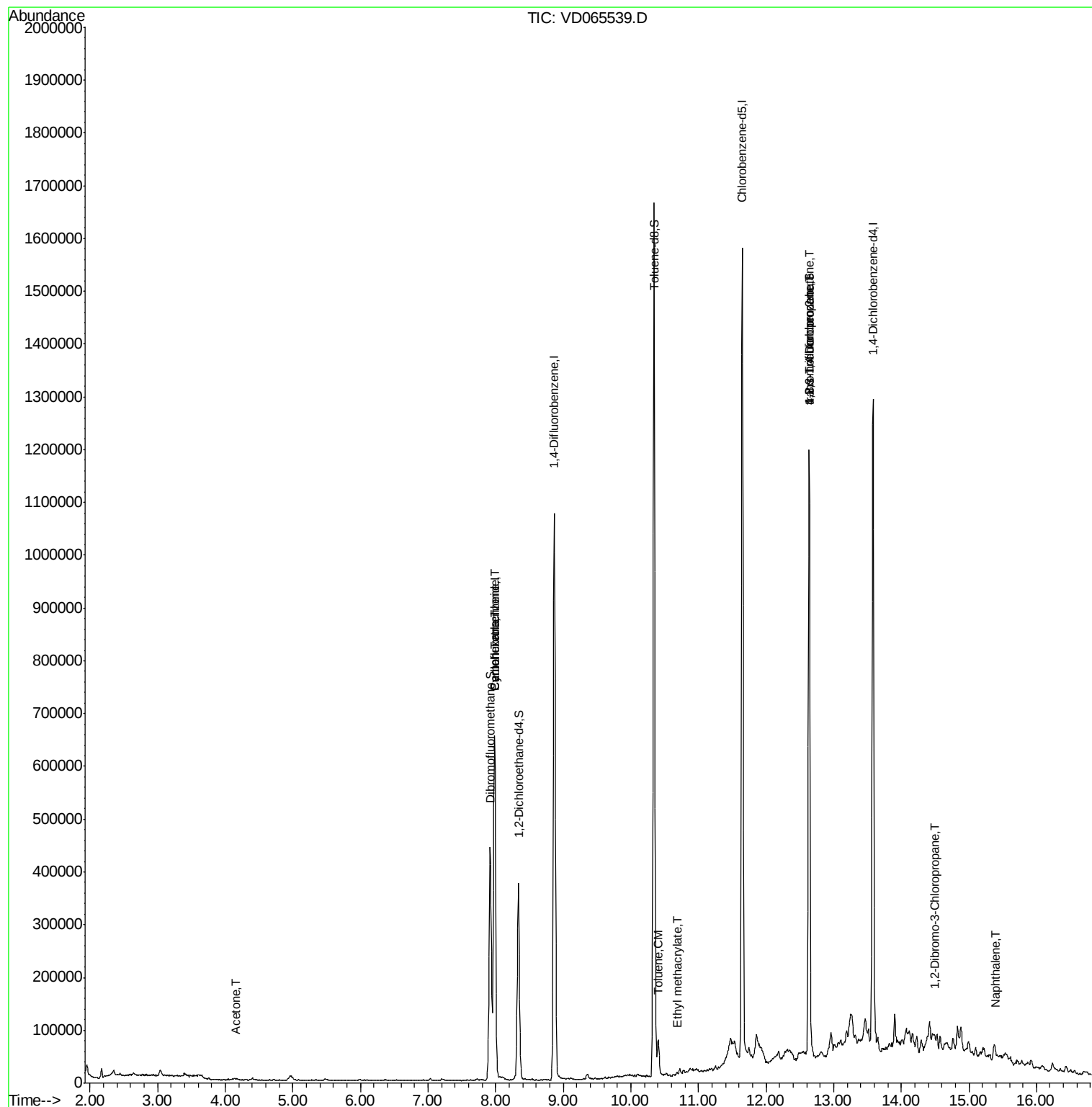
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	681	Below Cal		89
3) Chloromethane	2.21	50	1265	Below Cal	#	79
5) Bromomethane	2.79	94	1168	Below Cal	#	33
16) Acetone	4.16	43	4807	5.816	ug/l #	81
20) Methylene Chloride	4.96	84	6009	Below Cal		95
31) Cyclohexane	7.98	56	11585	1.407	ug/l #	21
38) Carbon Tetrachloride	7.98	117	48559	5.386	ug/l #	17
52) Toluene	10.41	92	26225	1.695	ug/l	98
56) Ethyl methacrylate	10.68	69	934	3.453	ug/l #	55
76) 1,2,3-Trichloropropane	12.64	75	175221	63.693	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	175221	142.175	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.50	75	755	1.313	ug/l #	26
95) Naphthalene	15.41	128	4450	4.690	ug/l #	65

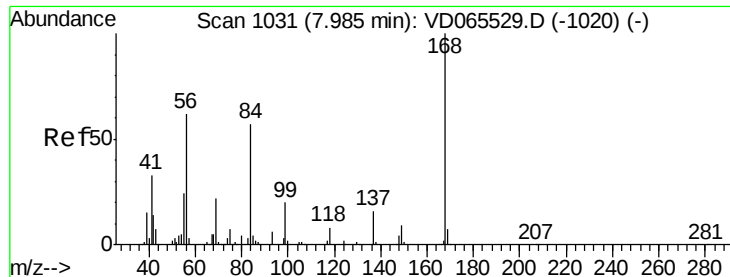
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD065539.D

Acq: 27 Mar 2020 12:51

Instrument :

MSVOA_D

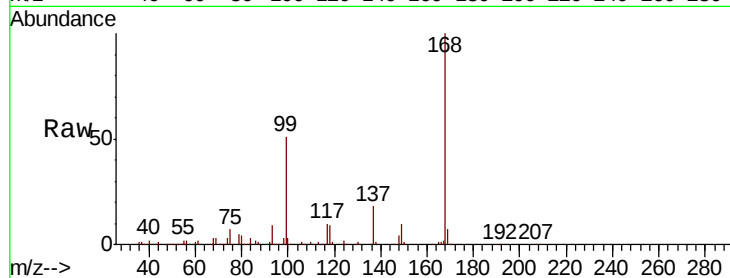
ClientSampleId :

Tot Ion:168 Resp: 526192

Ion Ratio Lower Upper

168 100

99 51.1 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

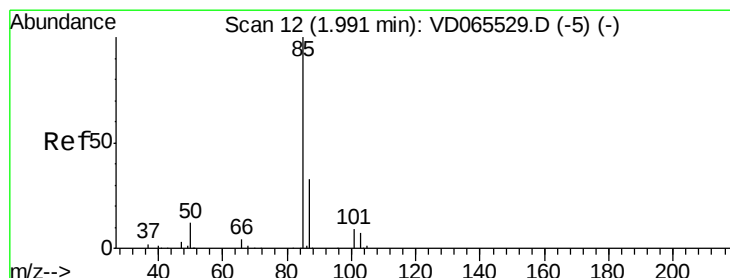
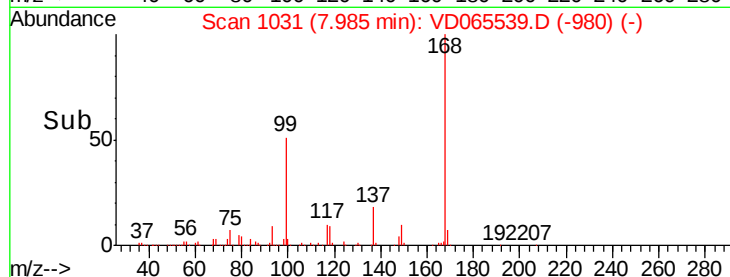
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. -0.01 min

Lab File: VD065539.D

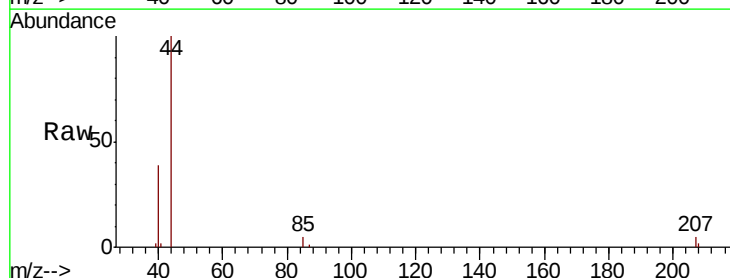
Acq: 27 Mar 2020 12:51

Tgt Ion: 85 Resp: 681

Ion Ratio Lower Upper

85 100

87 26.7 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

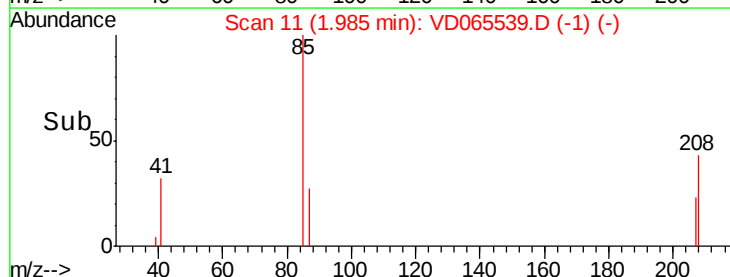
600

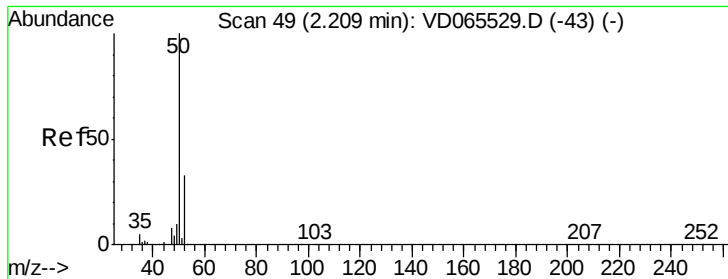
400

200

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065539.D

Acq: 27 Mar 2020 12:51

Instrument :

MSVOA_D

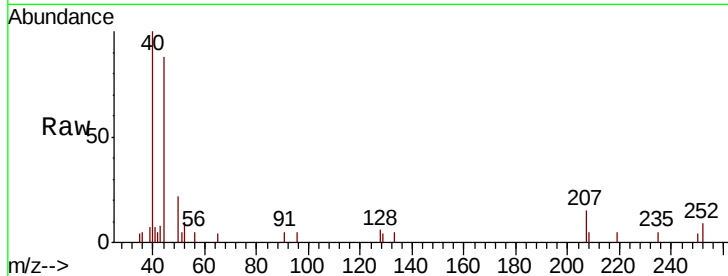
ClientSampled :

Tot Ion: 50 Resp: 1265

Ion Ratio Lower Upper

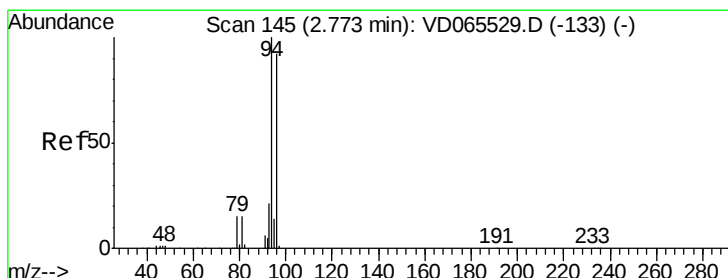
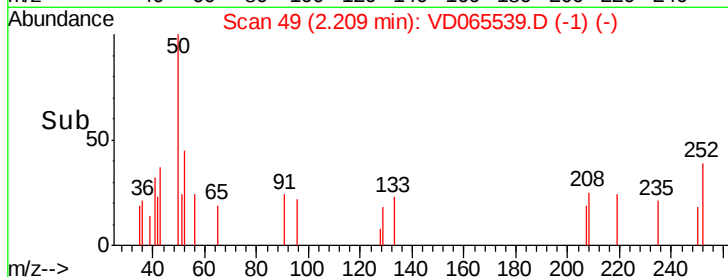
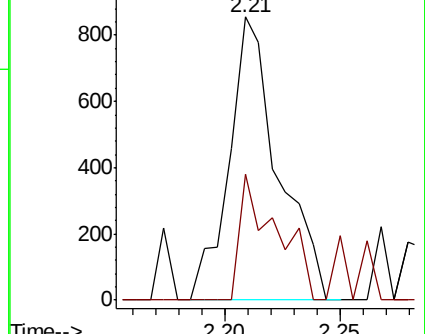
50 100

52 44.6 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: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065539.D

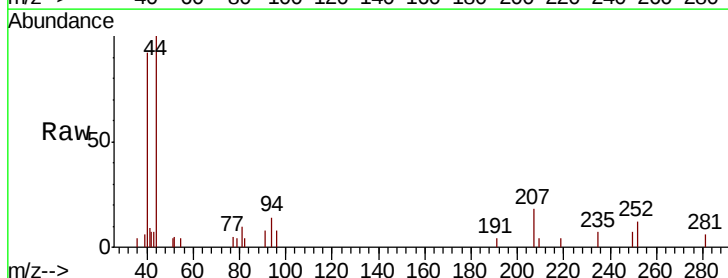
Acq: 27 Mar 2020 12:51

Tgt Ion: 94 Resp: 1168

Ion Ratio Lower Upper

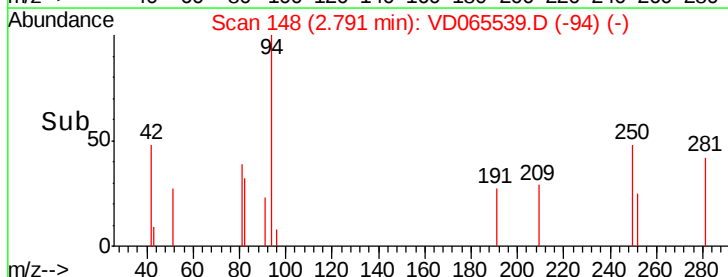
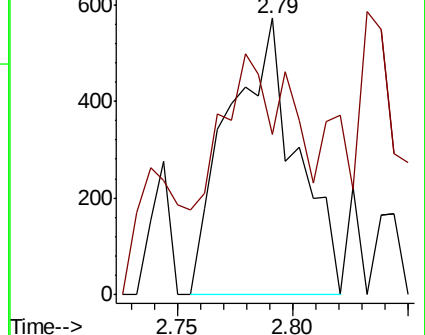
94 100

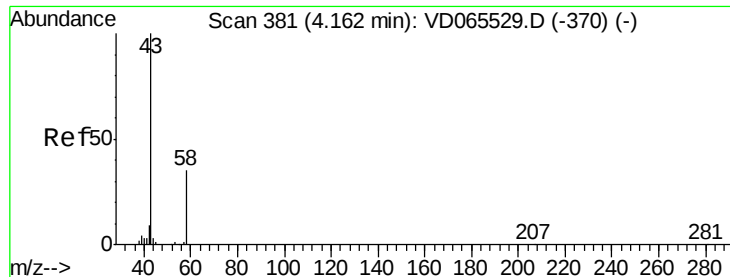
96 27.6 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

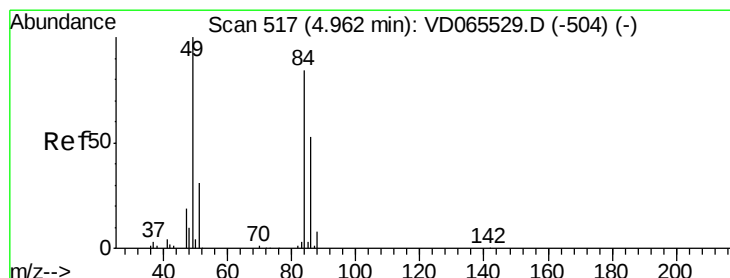
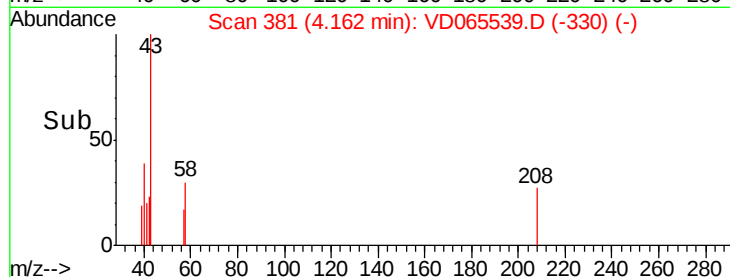
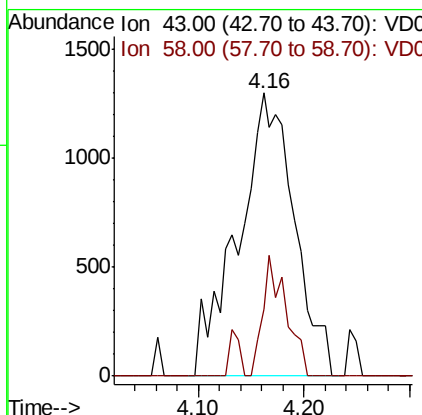
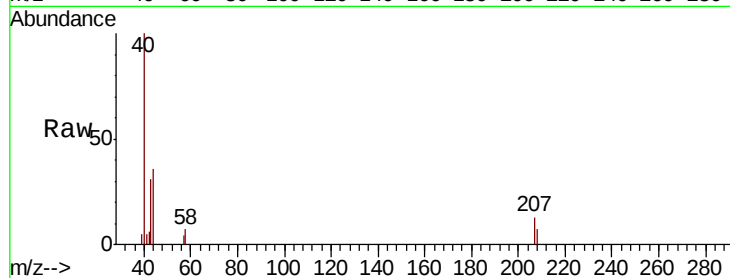




#16
Acetone
Concen: 5.816 ug/l
RT: 4.16 min Scan# 381
Delta R.T. -0.00 min
Lab File: VD065539.D
Acq: 27 Mar 2020 12:51

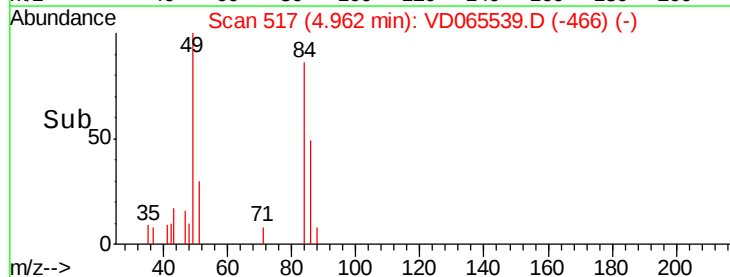
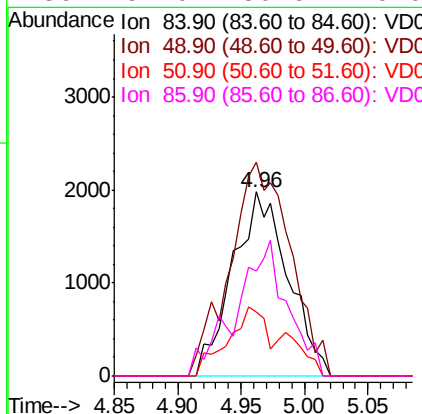
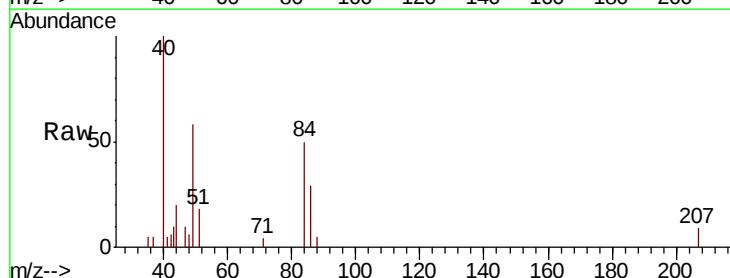
Instrument :
MSVOA_D
ClientSampled :

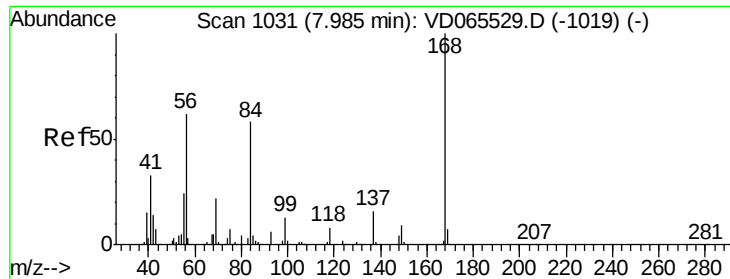
Tot Ion: 43 Resp: 4807
Ion Ratio Lower Upper
43 100
58 23.8 27.9 41.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD065539.D
Acq: 27 Mar 2020 12:51

Tgt Ion: 84 Resp: 6009
Ion Ratio Lower Upper
84 100
49 116.1 95.6 143.4
51 34.9 29.4 44.2
86 57.0 50.6 76.0

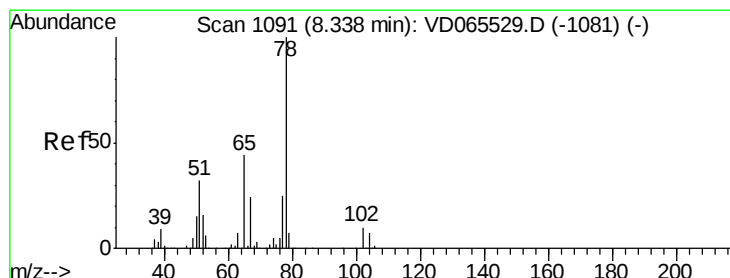
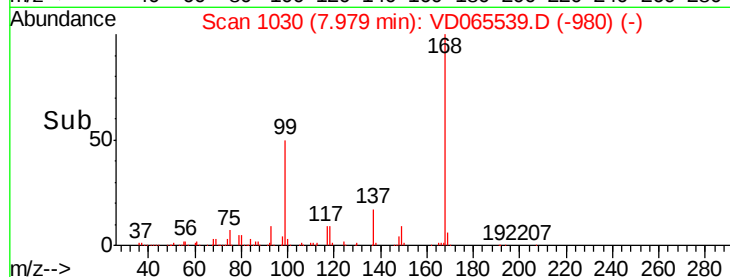
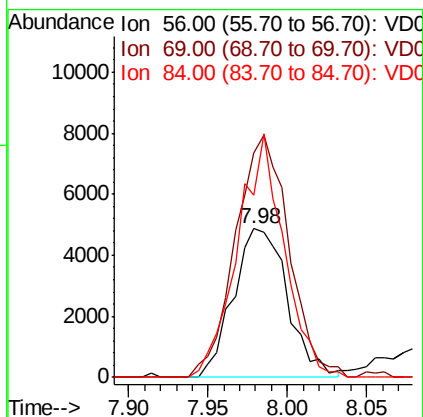
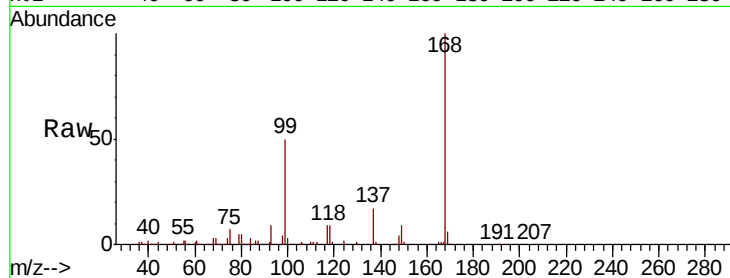




#31
Cyclohexane
Concen: 1.407 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD065539.D
Acq: 27 Mar 2020 12:51

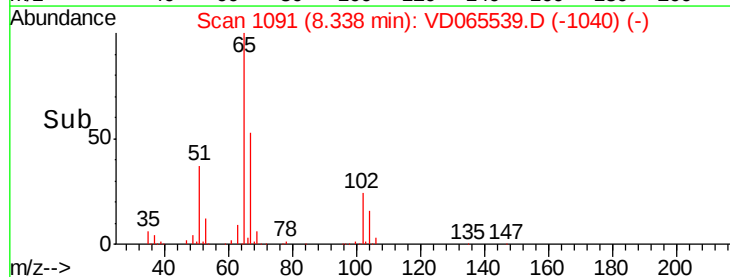
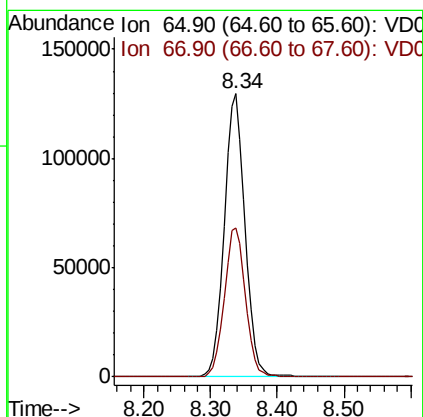
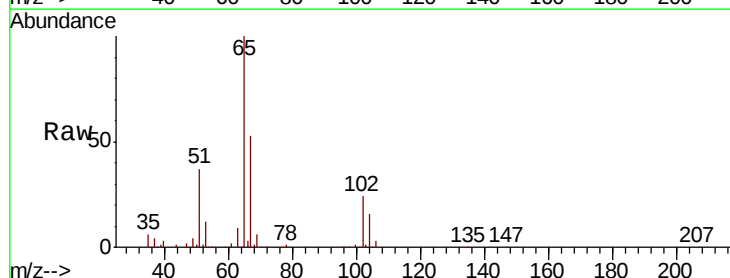
Instrument :
MSVOA_D
ClientSampled :

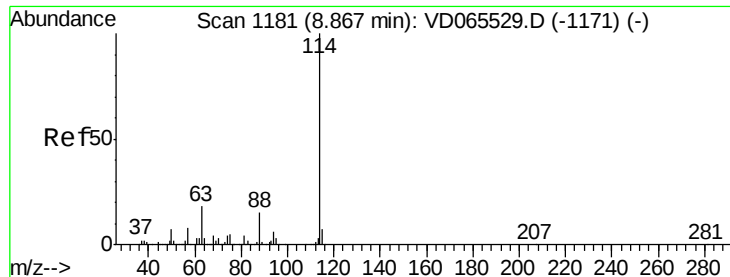
Tot Ion: 56 Resp: 11585
Ion Ratio Lower Upper
56 100
69 151.0 28.2 42.4#
84 122.5 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 64.975 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD065539.D
Acq: 27 Mar 2020 12:51

Tgt Ion: 65 Resp: 284604
Ion Ratio Lower Upper
65 100
67 53.1 0.0 107.6

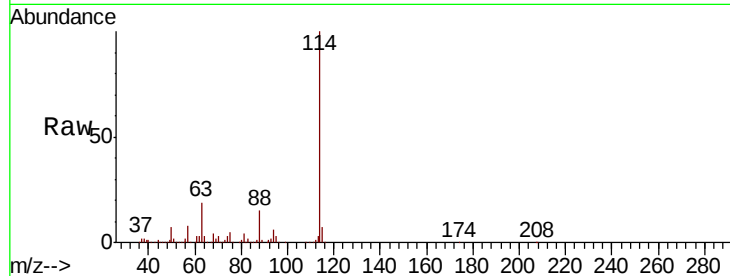




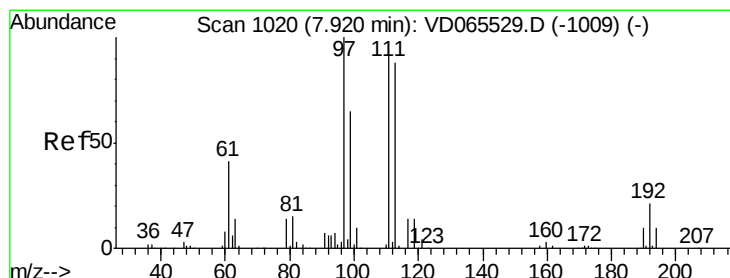
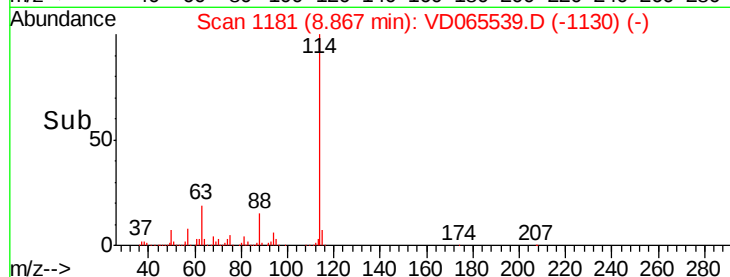
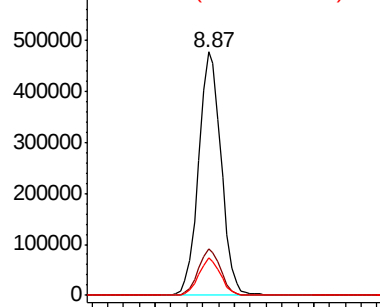
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065539.D
 Acq: 27 Mar 2020 12:51

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 936916
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 37.0
 88 15.5 0.0 30.4

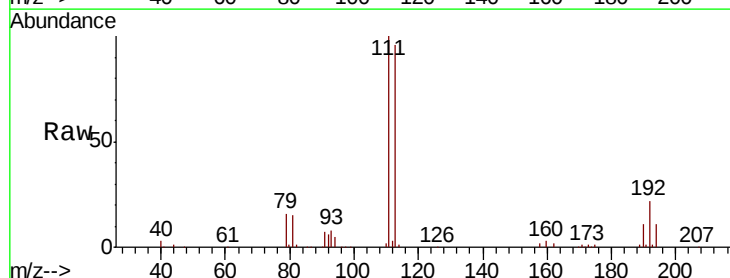


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

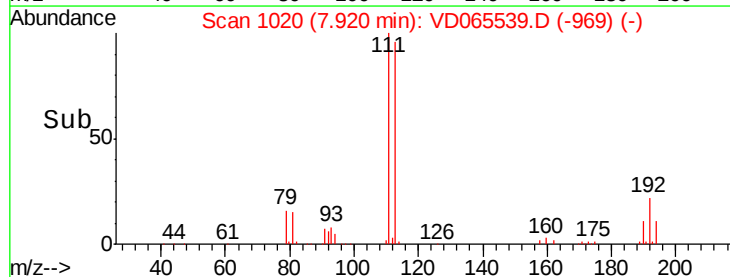
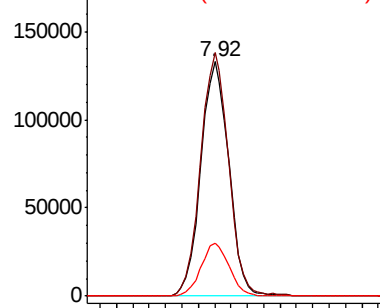


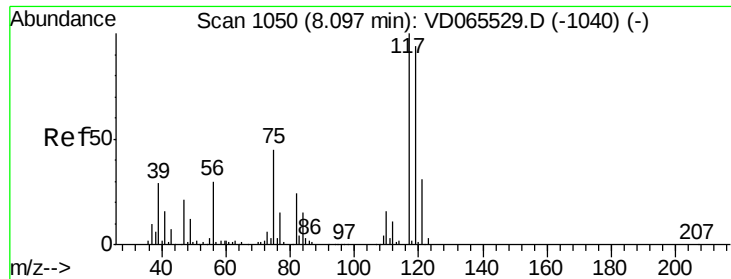
#35
 Dibromofluoromethane
 Concen: 54.838 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065539.D
 Acq: 27 Mar 2020 12:51

Tgt Ion:113 Resp: 317135
 Ion Ratio Lower Upper
 113 100
 111 103.6 83.3 124.9
 192 22.5 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





#38

Carbon Tetrachloride

Concen: 5.386 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065539.D

Acq: 27 Mar 2020 12:51

Instrument :

MSVOA_D

ClientSampled :

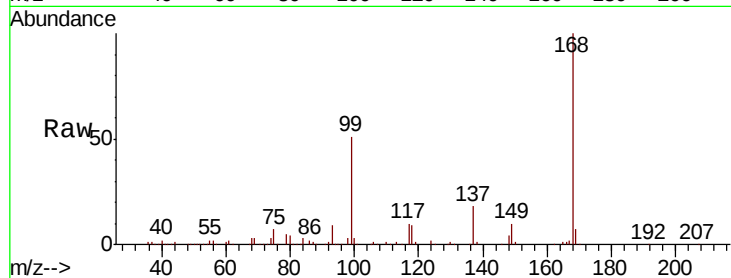
Tot Ion:117 Resp: 48559

Ion Ratio Lower Upper

117 100

119 5.7 75.2 112.8#

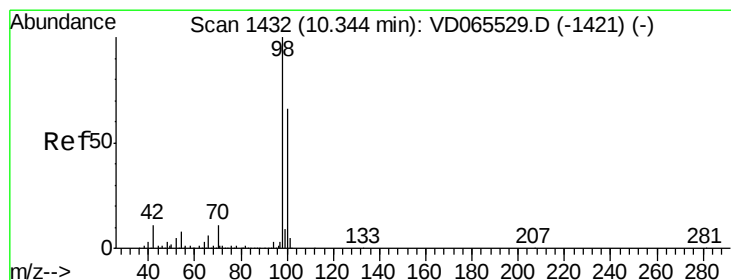
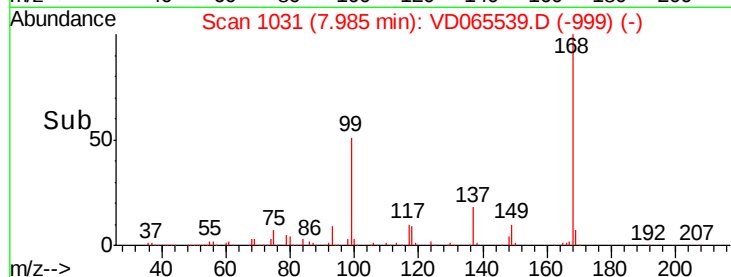
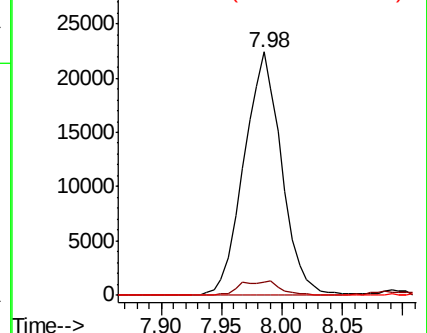
121 0.0 24.5 36.7#



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: 51.725 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065539.D

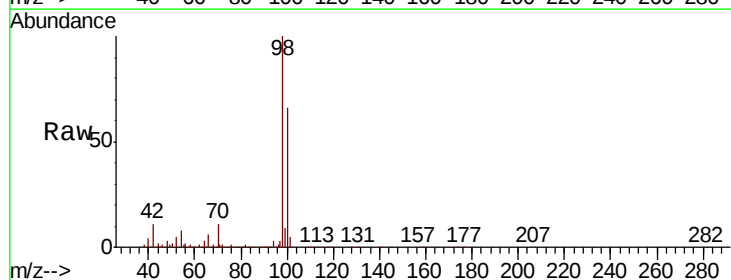
Acq: 27 Mar 2020 12:51

Tgt Ion: 98 Resp: 1123022

Ion Ratio Lower Upper

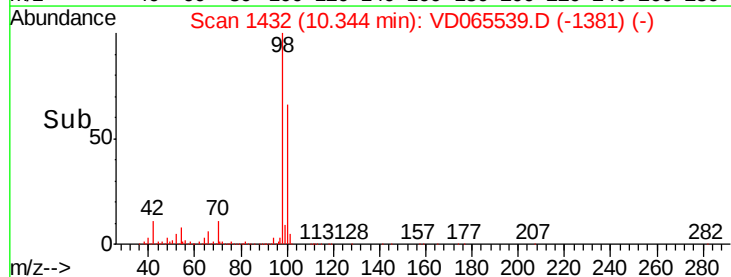
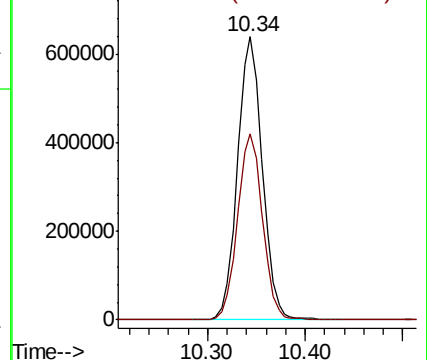
98 100

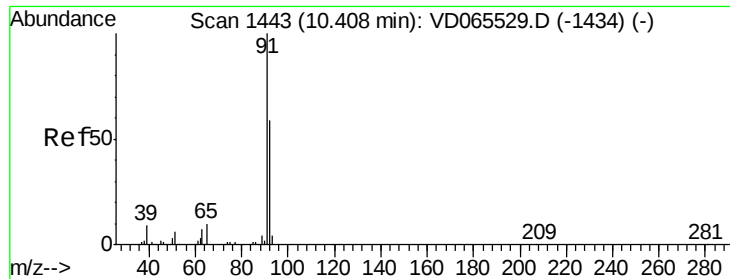
100 66.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 1.695 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD065539.D

Acq: 27 Mar 2020 12:51

Instrument :

MSVOA_D

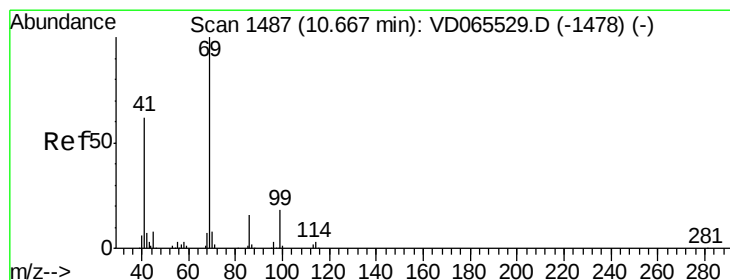
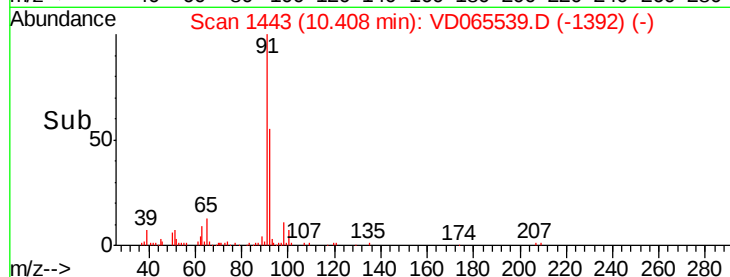
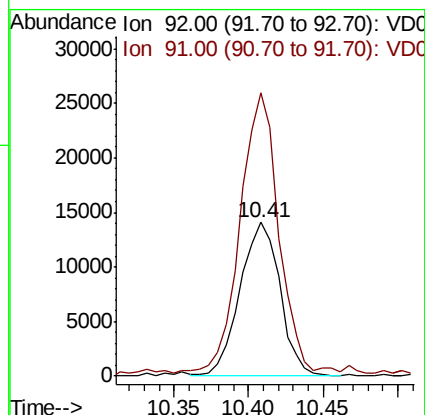
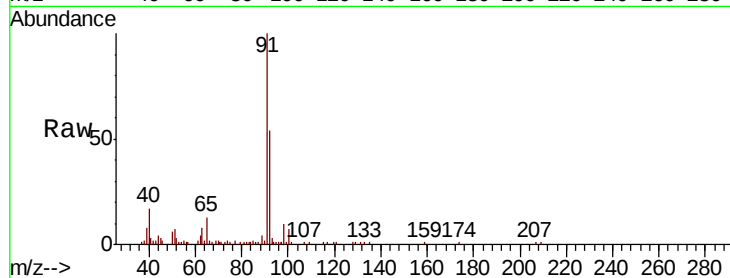
ClientSampled :

Tot Ion: 92 Resp: 26225

Ion Ratio Lower Upper

92 100

91 174.5 137.3 205.9



#56

Ethyl methacrylate

Concen: 3.453 ug/l

RT: 10.68 min Scan# 1489

Delta R.T. 0.01 min

Lab File: VD065539.D

Acq: 27 Mar 2020 12:51

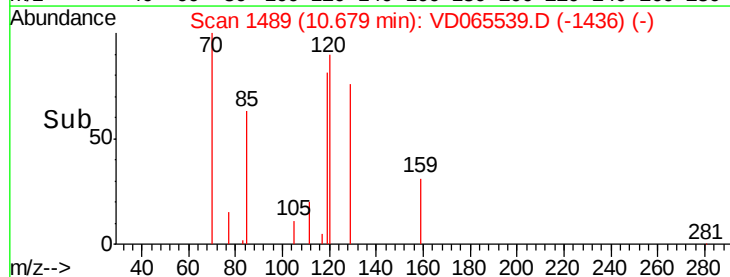
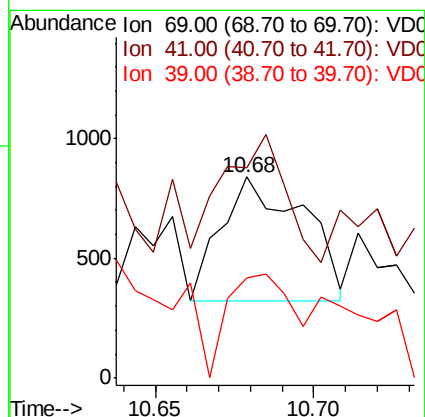
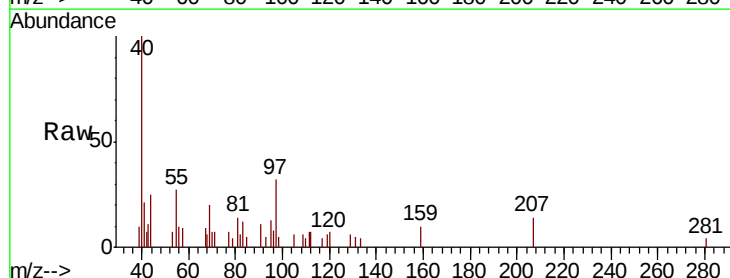
Tgt Ion: 69 Resp: 934

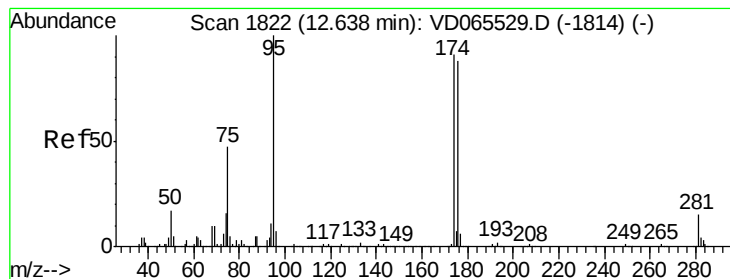
Ion Ratio Lower Upper

69 100

41 92.2 51.3 76.9#

39 66.2 25.3 37.9#





#62

4-Bromofluorobenzene

Concen: 53.448 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065539.D

Acq: 27 Mar 2020 12:51

Instrument :

MSVOA_D

ClientSampleId :

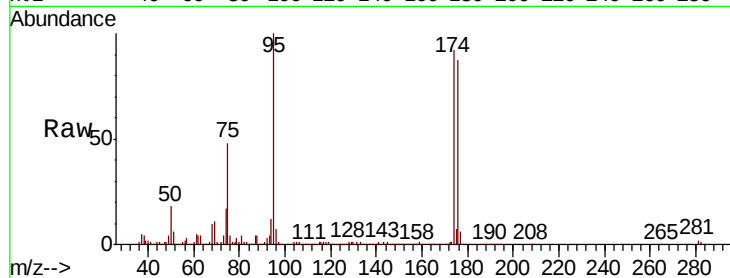
Tot Ion: 95 Resp: 368304

Ion Ratio Lower Upper

95 100

174 94.9 0.0 183.8

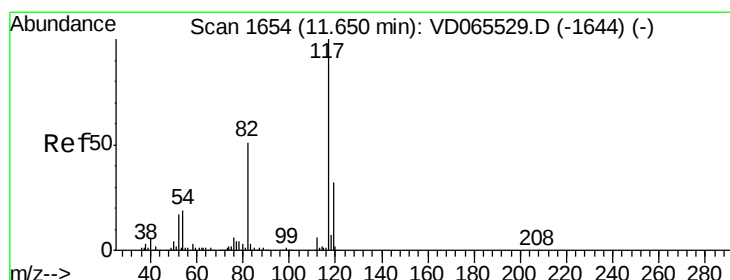
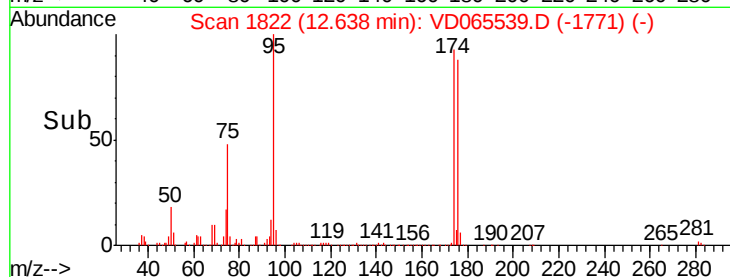
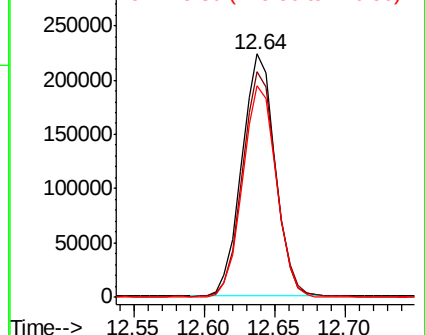
176 88.6 0.0 178.2



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: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065539.D

Acq: 27 Mar 2020 12:51

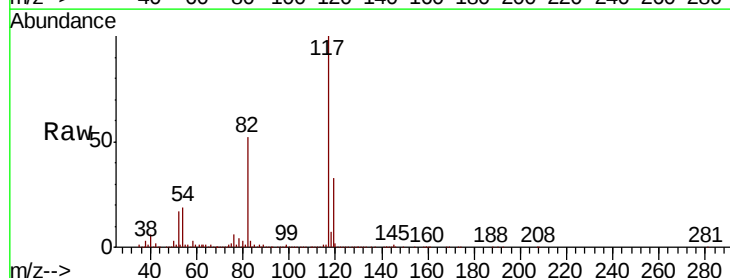
Tgt Ion: 117 Resp: 910951

Ion Ratio Lower Upper

117 100

82 51.7 41.0 61.6

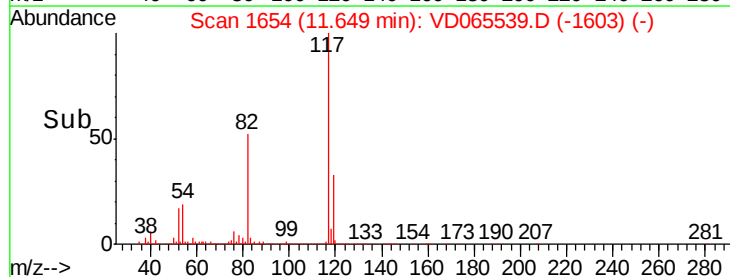
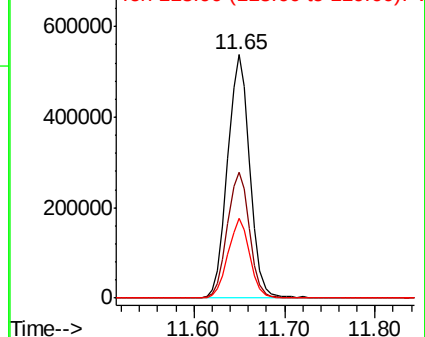
119 32.5 25.5 38.3

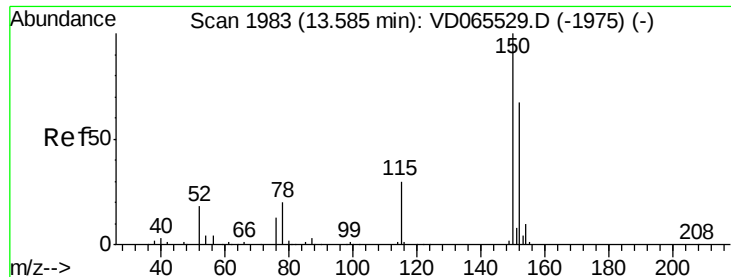


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD065539.D

Acq: 27 Mar 2020 12:51

Instrument :

MSVOA_D

ClientSampleId :

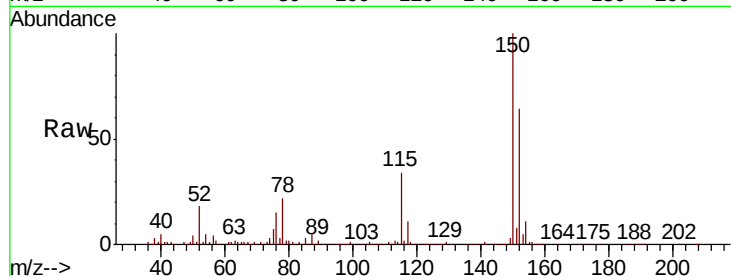
Tot Ion:152 Resp: 357830

Ion Ratio Lower Upper

152 100

115 55.0 27.2 81.6

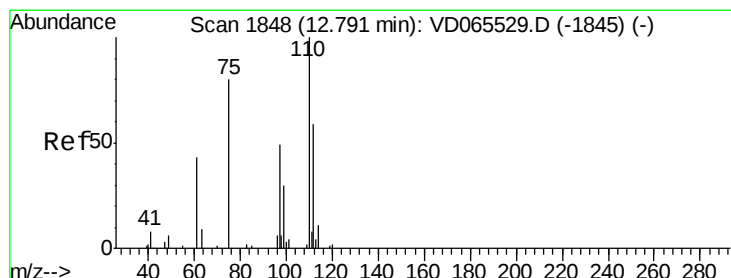
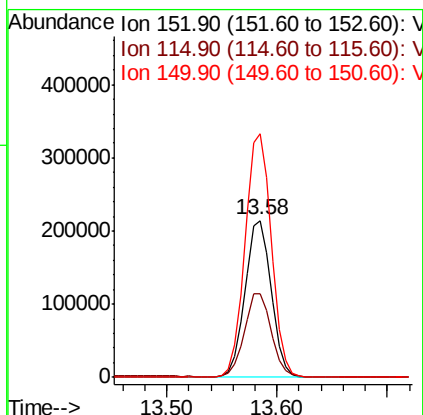
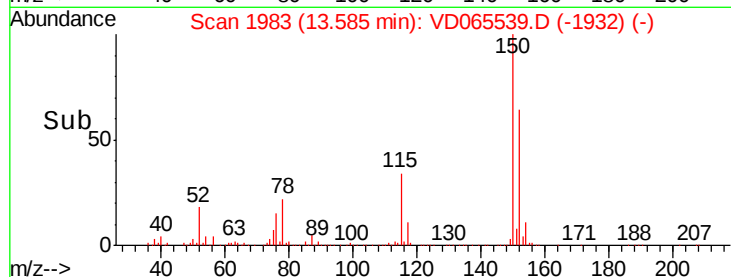
150 156.2 0.0 340.2



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: 63.693 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065539.D

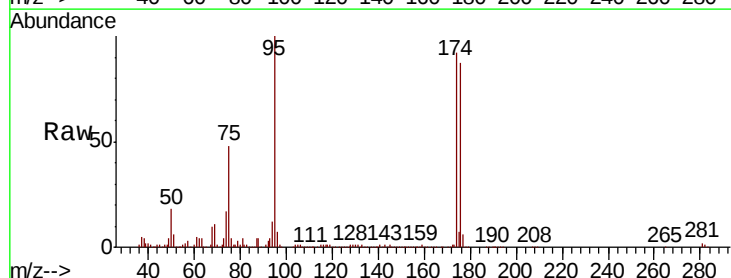
Acq: 27 Mar 2020 12:51

Tgt Ion: 75 Resp: 175221

Ion Ratio Lower Upper

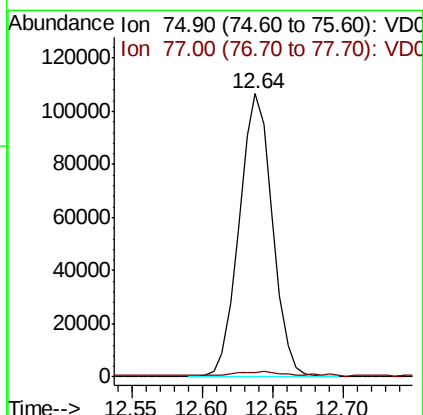
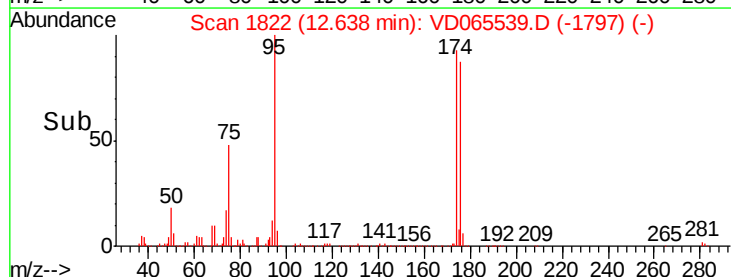
75 100

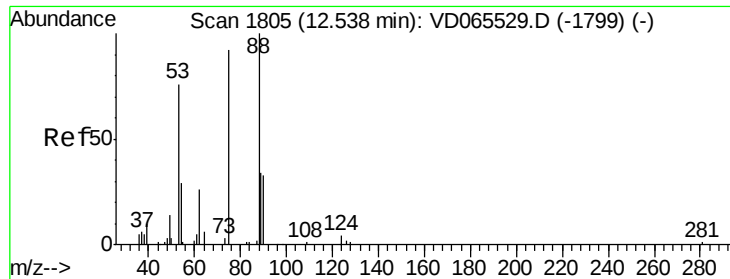
77 1.9 0.0 0.0#



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: 142.175 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065539.D

Acq: 27 Mar 2020 12:51

Instrument :

MSVOA_D

ClientSampleId :

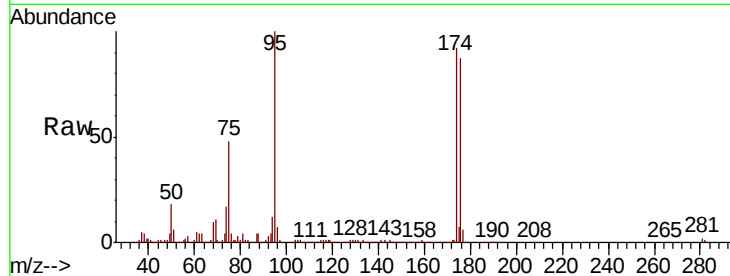
Tot Ion: 75 Resp: 175221

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

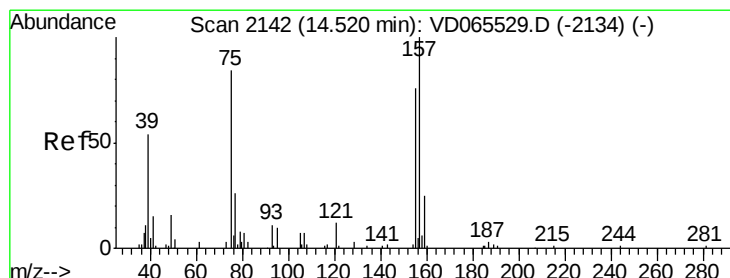
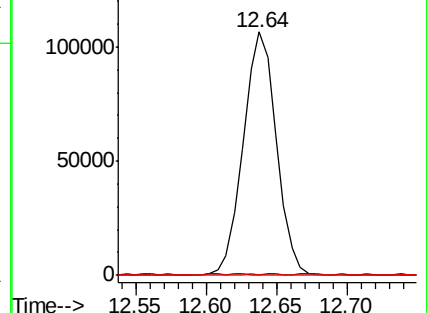
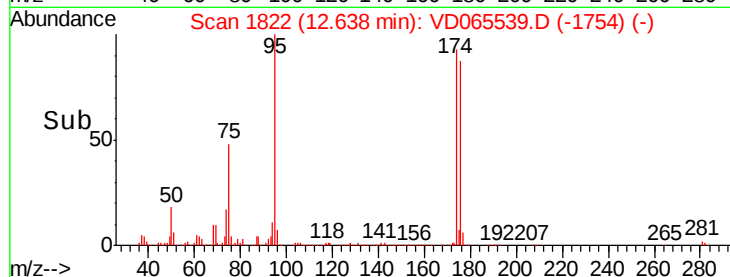
89 0.4 36.9 55.3#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.313 ug/l

RT: 14.50 min Scan# 2138

Delta R.T. -0.02 min

Lab File: VD065539.D

Acq: 27 Mar 2020 12:51

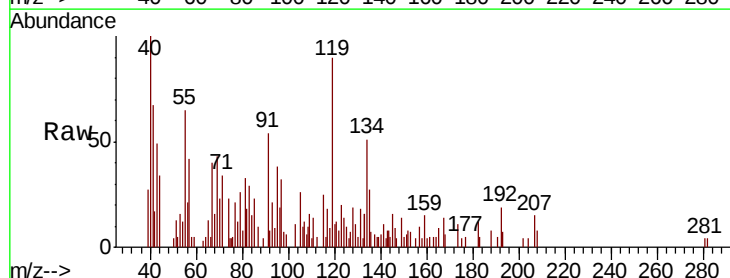
Tgt Ion: 75 Resp: 755

Ion Ratio Lower Upper

75 100

155 40.3 46.2 138.6#

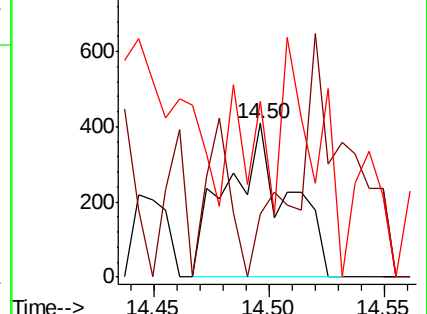
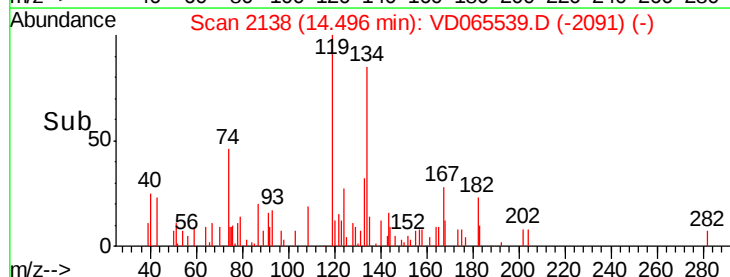
157 18.0 57.9 173.7#

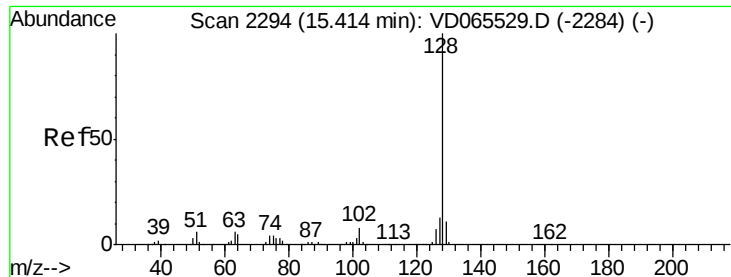


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Napthalene

Concen: 4.690 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD065539.D

Acq: 27 Mar 2020 12:51

Instrument :

MSVOA_D

ClientSampleId :

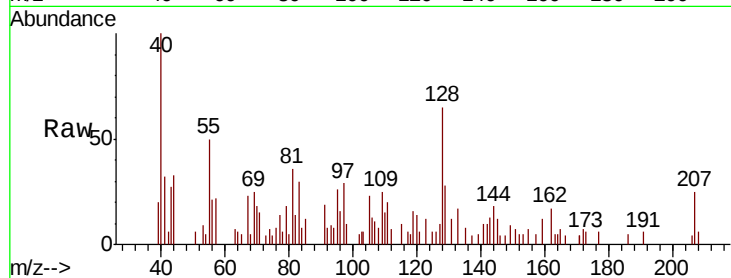
Tot Ion:128 Resp: 4450

Ion Ratio Lower Upper

128 100

127 28.9 10.4 15.6#

129 0.0 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

