

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032720\
 Data File : VD065548.D
 Acq On : 27 Mar 2020 17:09
 Operator : VA/SY
 Sample : L2040-07RE
 Misc : 6.49G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 30 06:35:32 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	410368	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	774830	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	756467	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	348009	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	208125	60.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.86%	
35) Dibromofluoromethane	7.91	113	252612	52.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.64%	
50) Toluene-d8	10.34	98	1012439	56.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.78%	
62) 4-Bromofluorobenzene	12.64	95	310060	54.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.82%	

Target Compounds

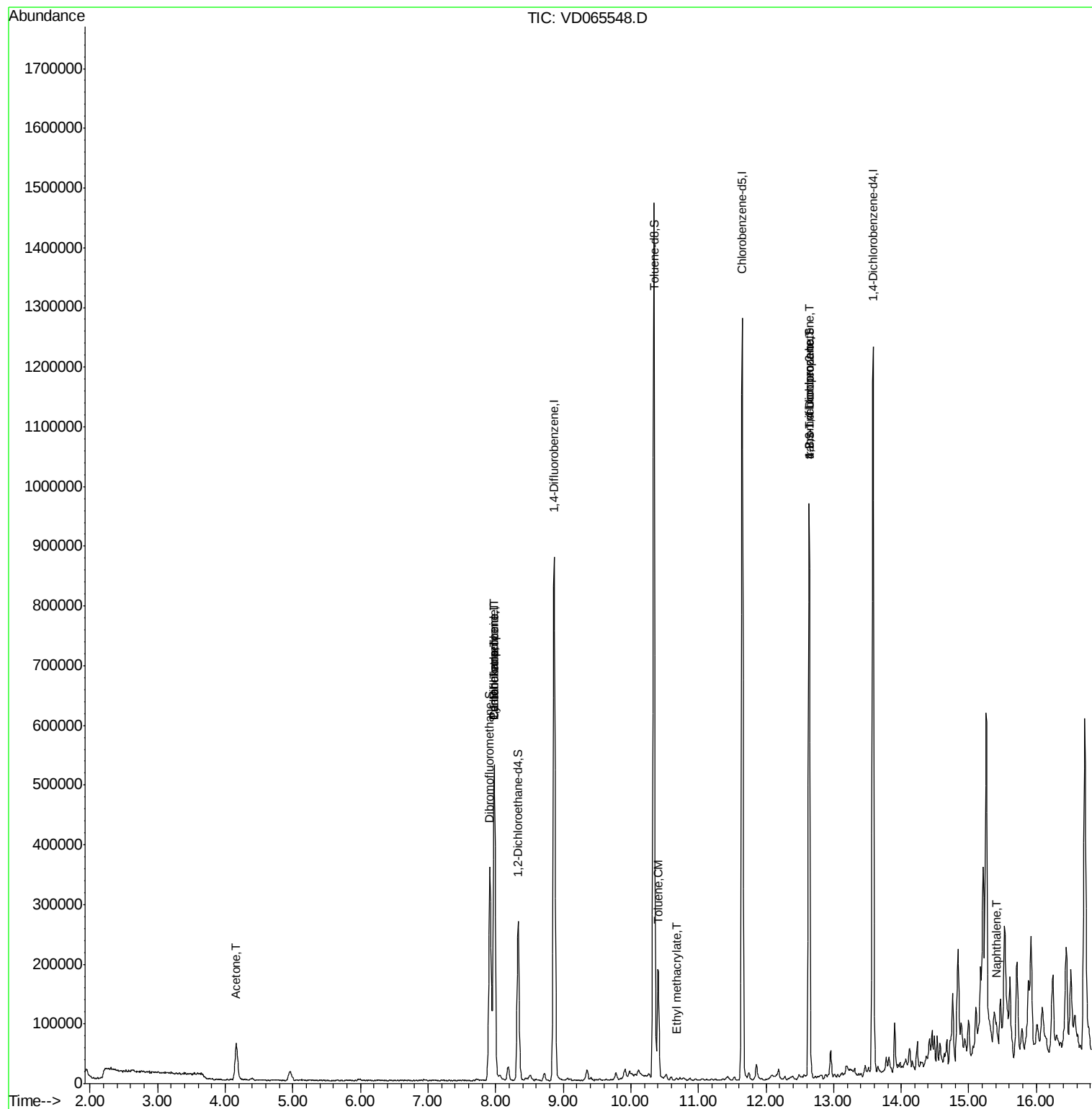
						Qvalue
2) Dichlorodifluoromethane	2.00	85	575	Below Cal	#	42
3) Chloromethane	2.21	50	841	Below Cal	#	42
5) Bromomethane	2.76	94	84	Below Cal	#	4
16) Acetone	4.16	43	109706	170.204	ug/l	96
20) Methylene Chloride	4.96	84	12281	Below Cal		92
31) Cyclohexane	7.98	56	10971	1.709	ug/l #	30
36) 1,1-Dichloropropene	7.98	75	27956	3.949	ug/l #	47
38) Carbon Tetrachloride	7.98	117	37722	5.059	ug/l #	17
52) Toluene	10.41	92	76268	5.962	ug/l	95
56) Ethyl methacrylate	10.67	69	264	3.347	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	146593	54.790	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	146593	122.303	ug/l #	13
95) Naphthalene	15.41	128	8697	5.062	ug/l #	79

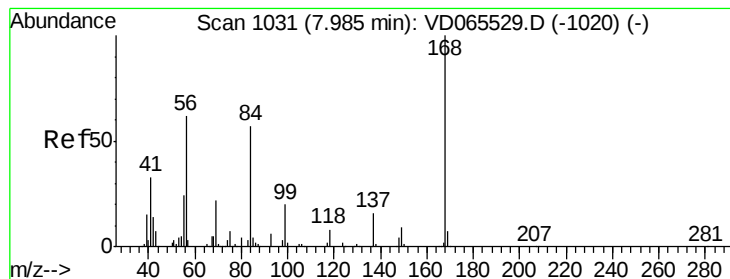
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

Instrument :

MSVOA_D

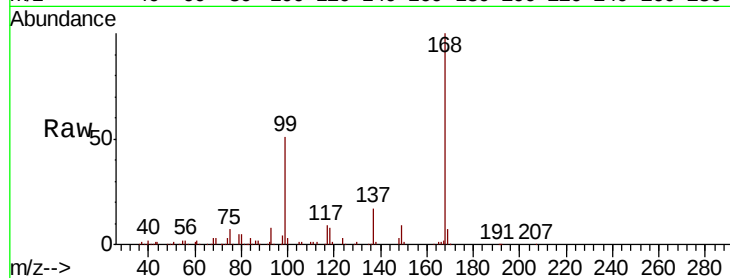
ClientSampleId :

Tot Ion:168 Resp: 410368

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

200000

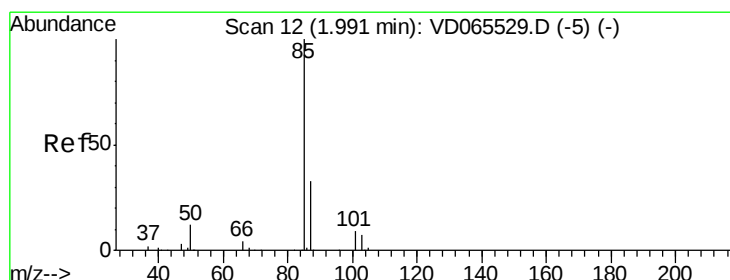
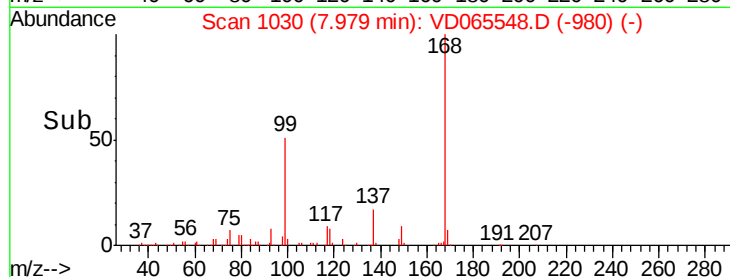
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD065548.D

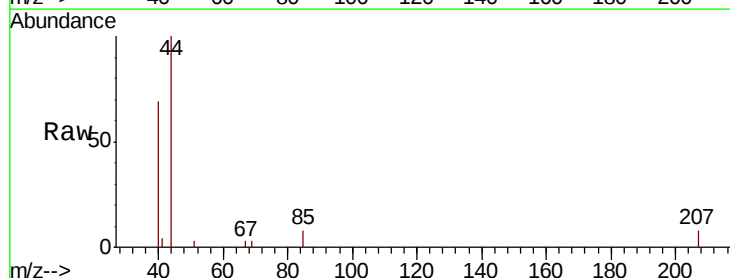
Acq: 27 Mar 2020 17:09

Tgt Ion: 85 Resp: 575

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

2.00

500

400

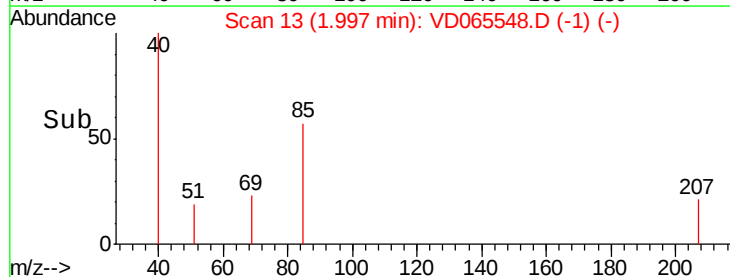
300

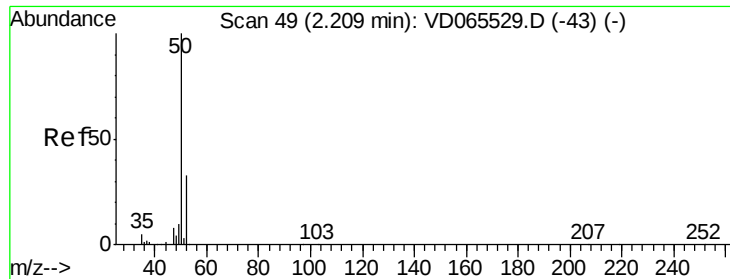
200

100

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

Instrument :

MSVOA_D

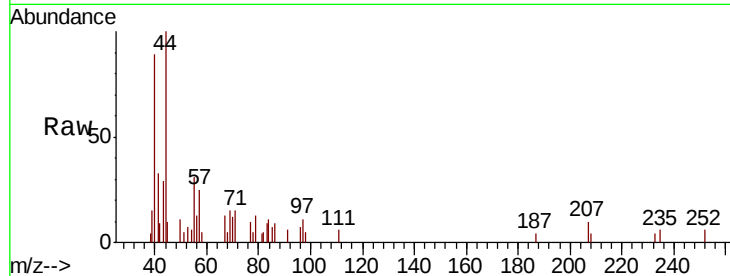
ClientSampleId :

Tot Ion: 50 Resp: 841

Ion Ratio Lower Upper

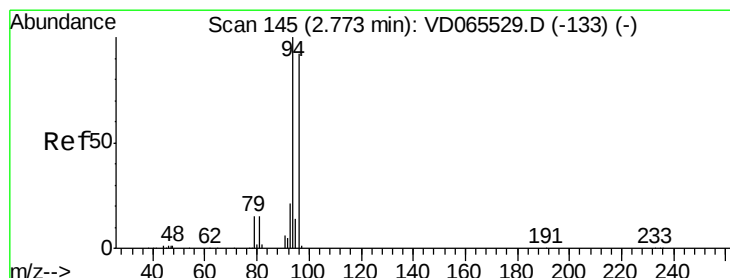
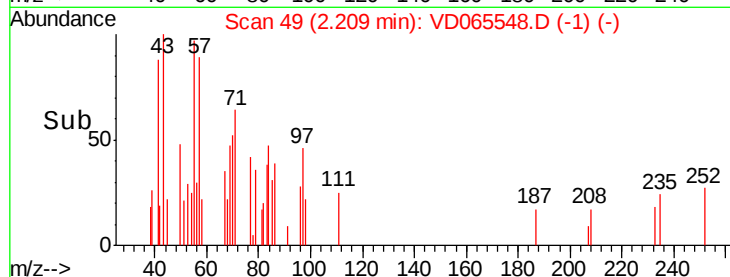
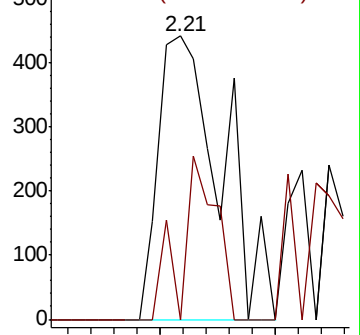
50 100

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: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD065548.D

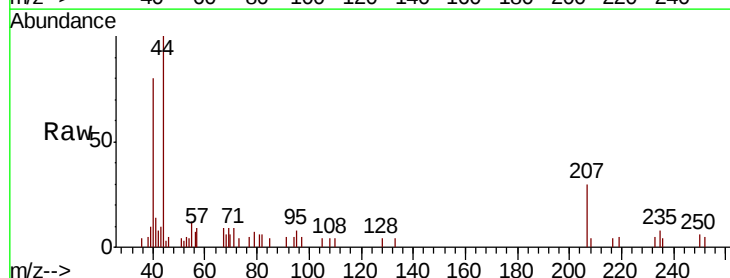
Acq: 27 Mar 2020 17:09

Tgt Ion: 94 Resp: 84

Ion Ratio Lower Upper

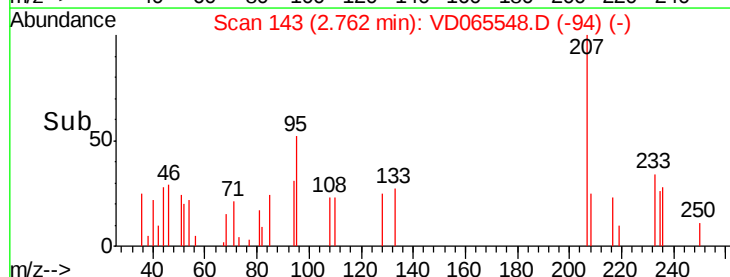
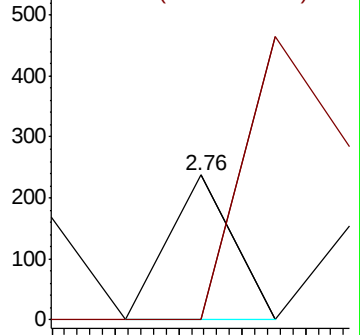
94 100

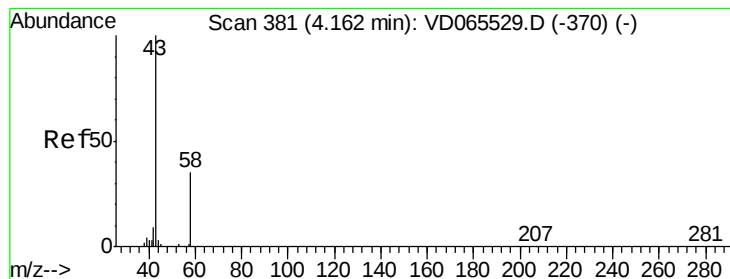
96 0.0 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 170.204 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.00 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

Instrument :

MSVOA_D

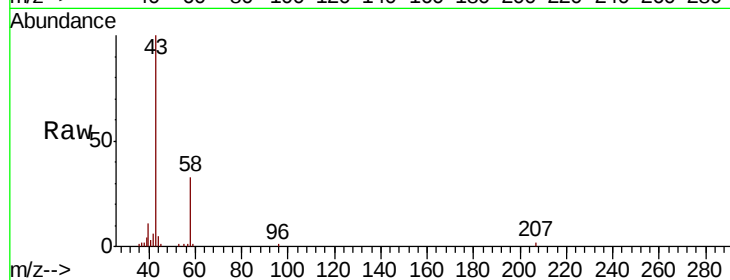
ClientSampleId :

Tot Ion: 43 Resp: 109706

Ion Ratio Lower Upper

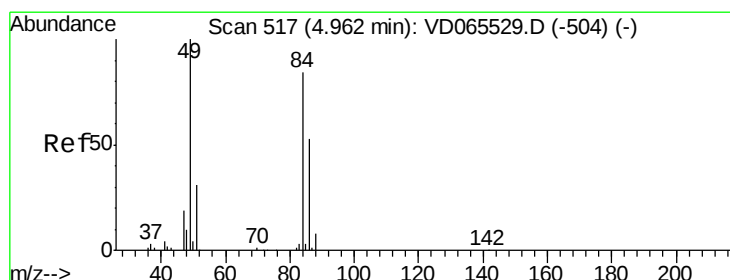
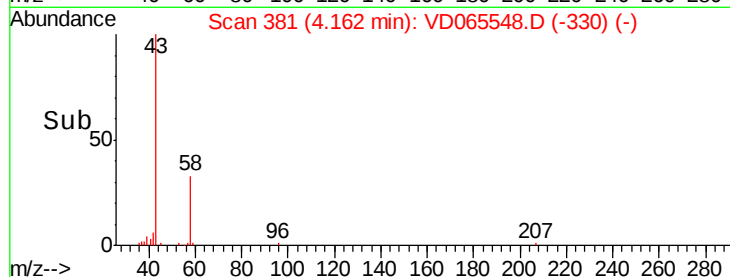
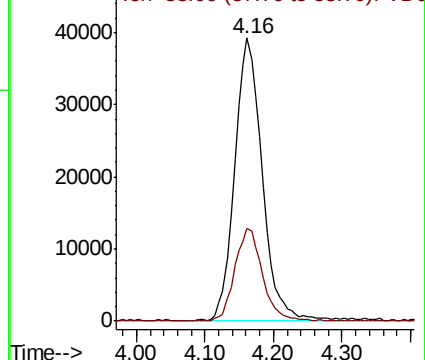
43 100

58 32.5 27.9 41.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

Tgt Ion: 84 Resp: 12281

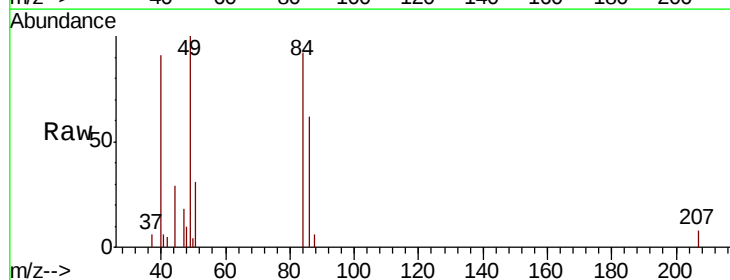
Ion Ratio Lower Upper

84 100

49 108.2 95.6 143.4

51 33.1 29.4 44.2

86 67.0 50.6 76.0

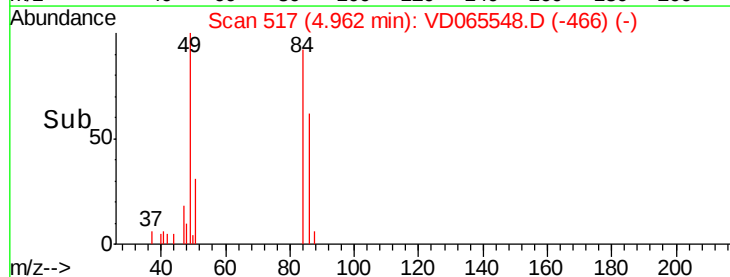
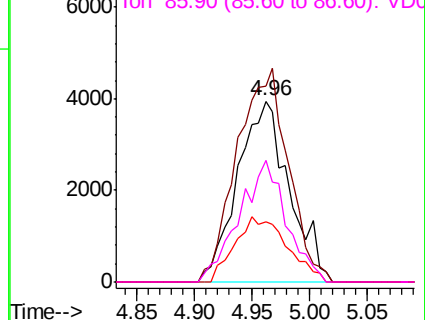


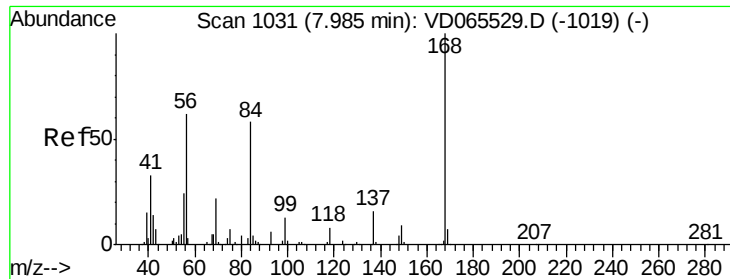
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

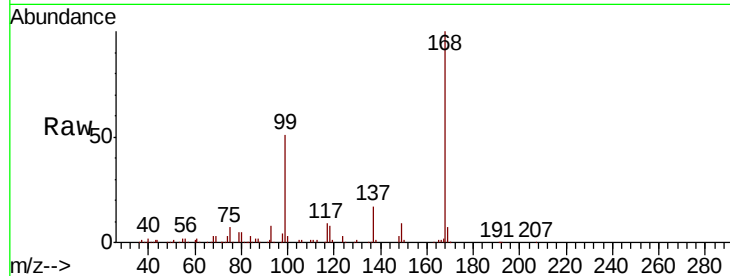




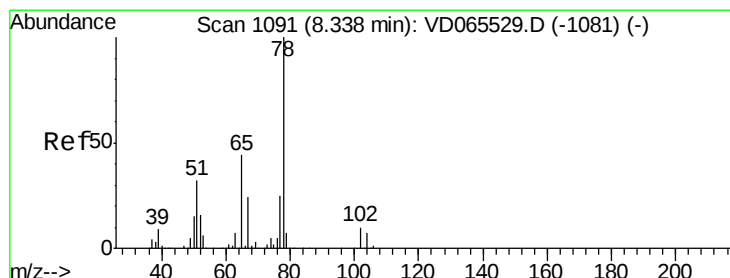
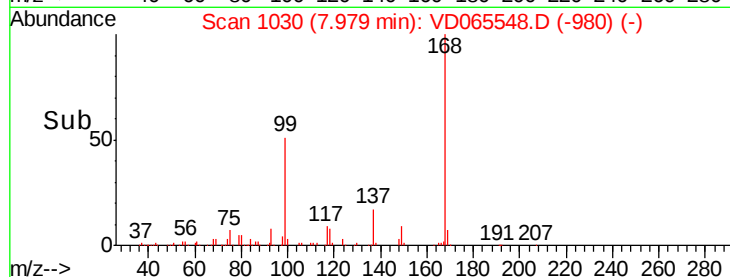
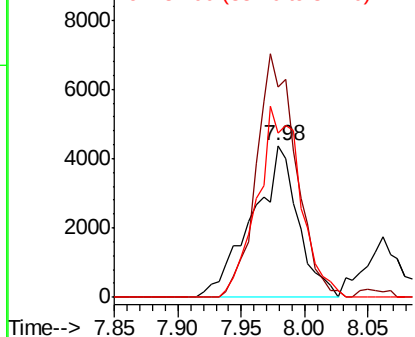
#31
Cyclohexane
Concen: 1.709 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD065548.D
Acq: 27 Mar 2020 17:09

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 10971
Ion Ratio Lower Upper
56 100
69 138.4 28.2 42.4#
84 119.6 73.4 110.0#

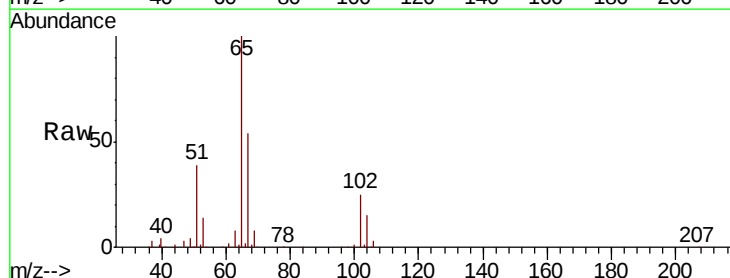


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

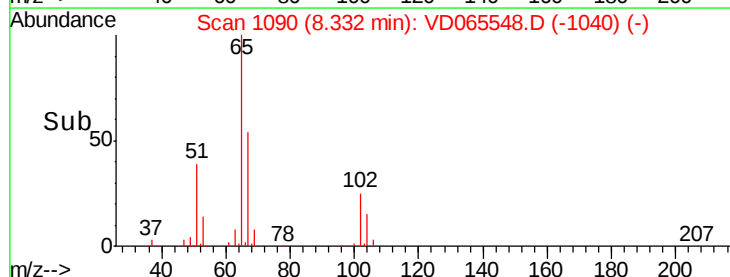
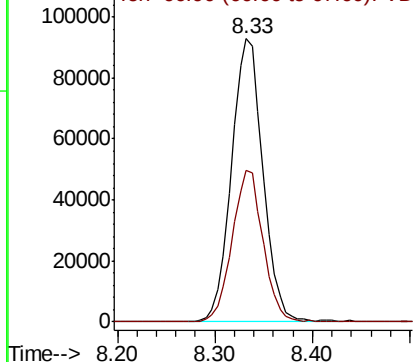


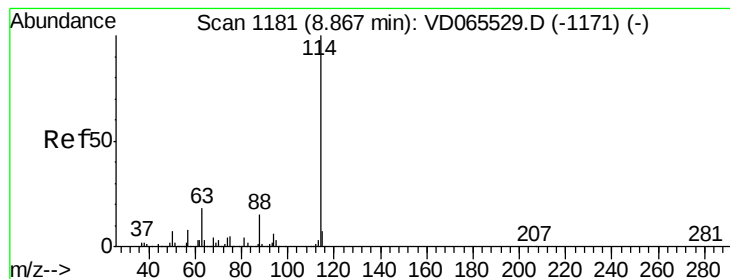
#33
1,2-Dichloroethane-d4
Concen: 60.926 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD065548.D
Acq: 27 Mar 2020 17:09

Tgt Ion: 65 Resp: 208125
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

Instrument :

MSVOA_D

ClientSampled :

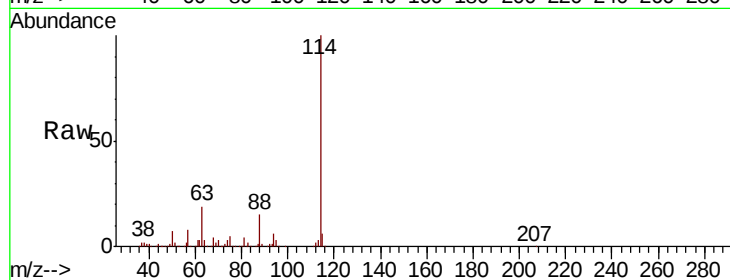
Tot Ion:114 Resp: 774830

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.0

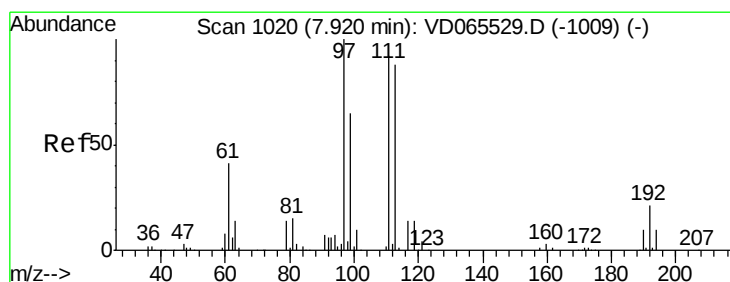
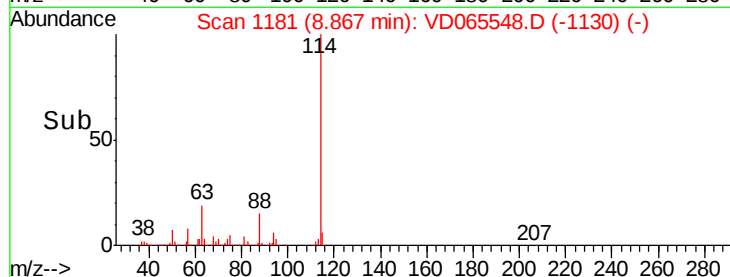
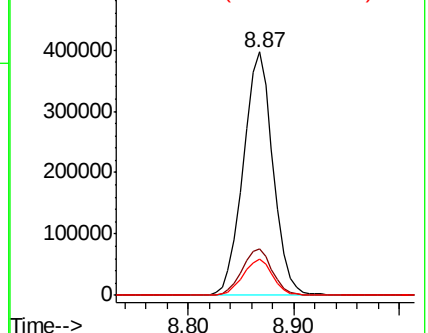
88 14.9 0.0 30.4



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: 52.819 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

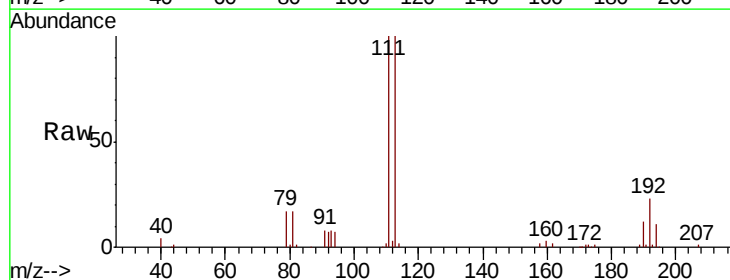
Tgt Ion:113 Resp: 252612

Ion Ratio Lower Upper

113 100

111 103.7 83.3 124.9

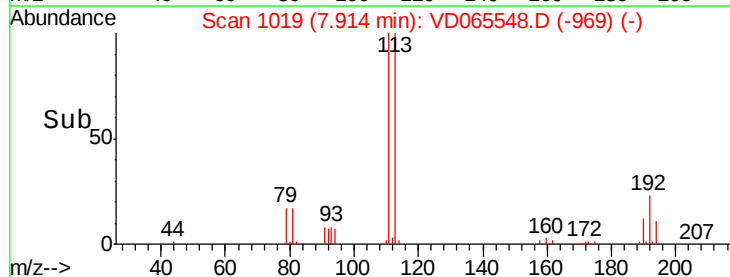
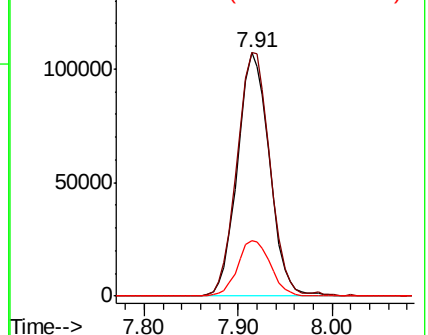
192 23.5 18.5 27.7

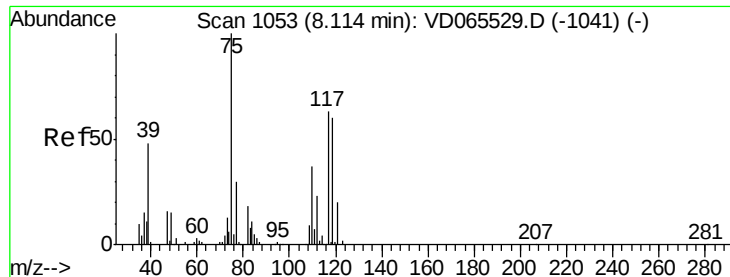


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

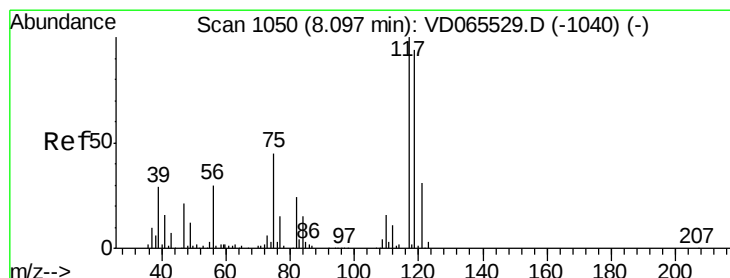
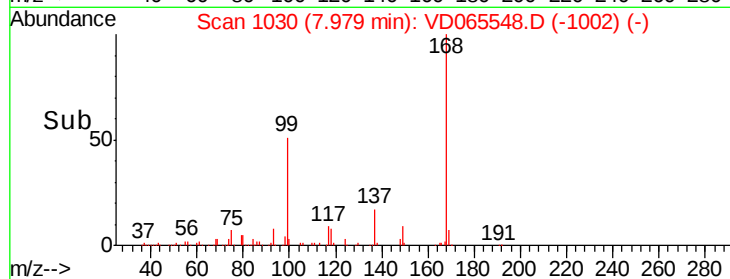
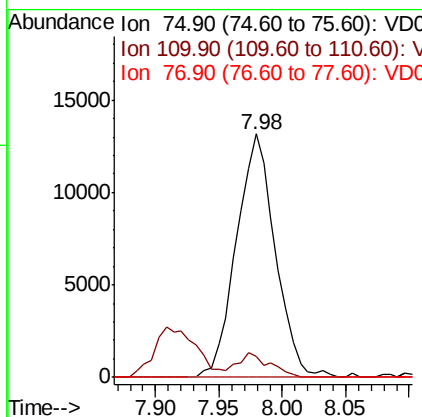
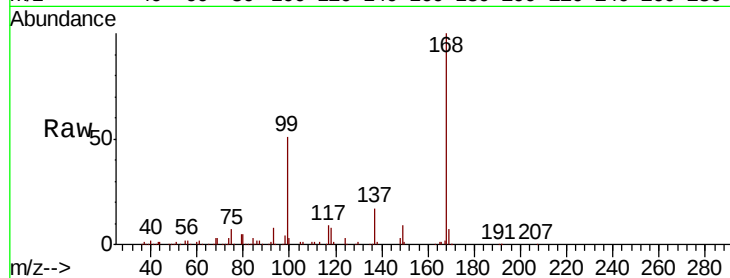




#36
 1,1-Dichloropropene
 Concen: 3.949 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD065548.D
 Acq: 27 Mar 2020 17:09

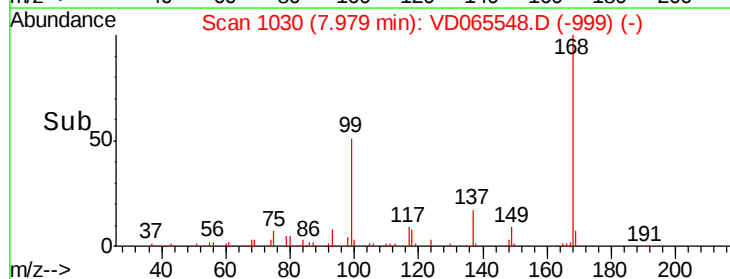
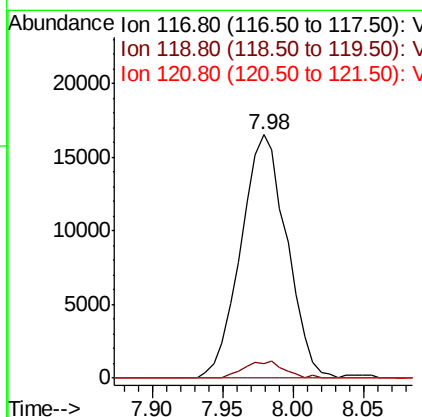
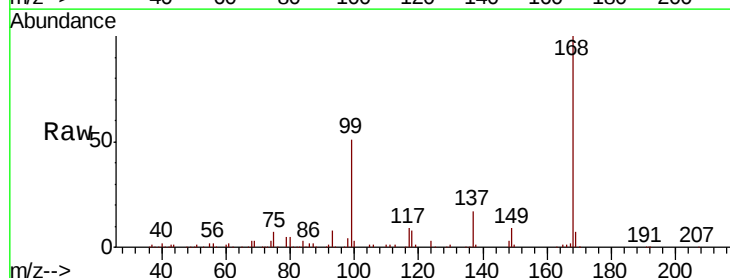
Instrument :
 MSVOA_D
 ClientSampleId :

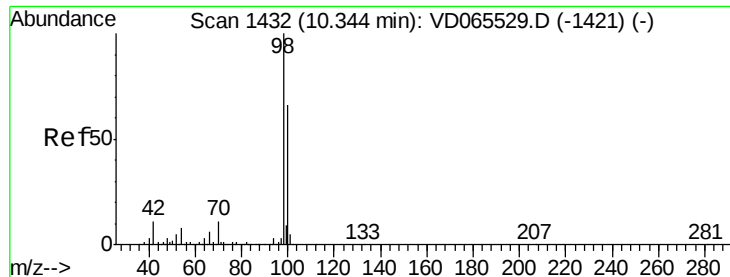
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.8	56.4#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 5.059 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD065548.D
 Acq: 27 Mar 2020 17:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	75.2	112.8#
121	0.0	24.5	36.7#

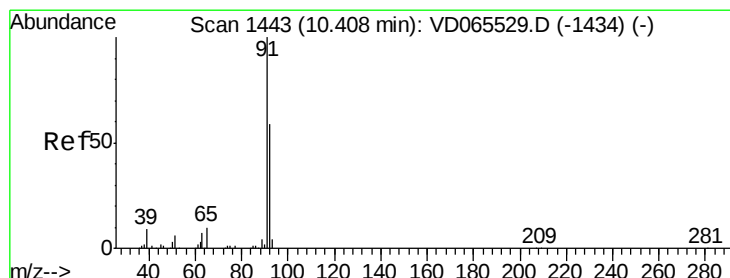
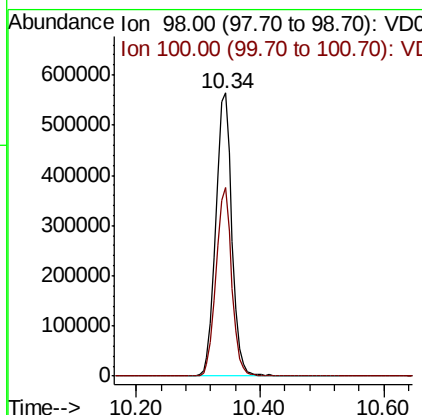
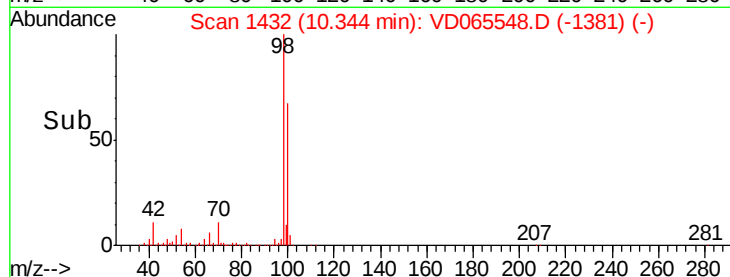
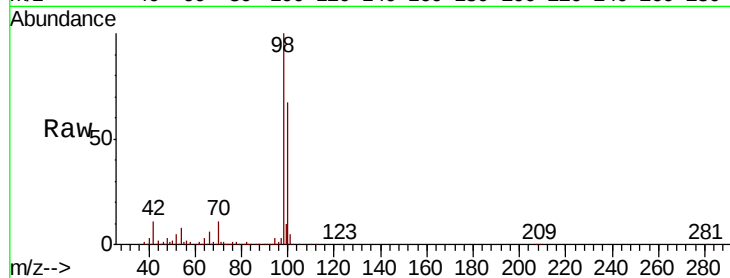




#50
Toluene-d8
Concen: 56.387 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065548.D
Acq: 27 Mar 2020 17:09

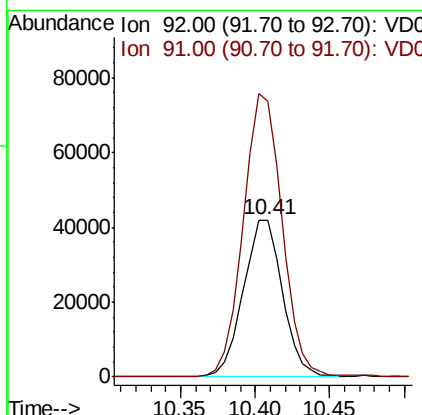
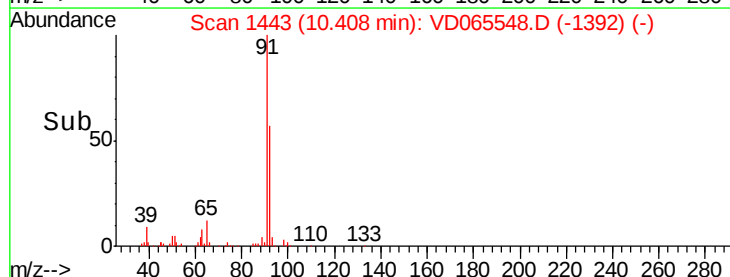
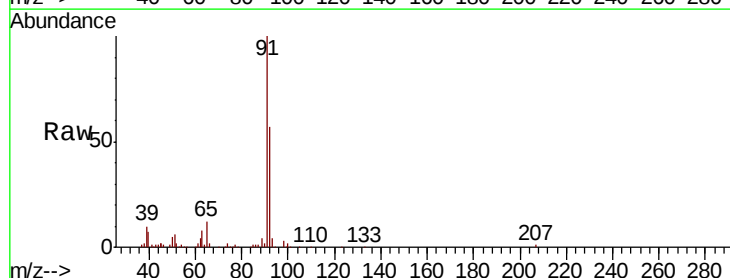
Instrument :
MSVOA_D
ClientSampleId :

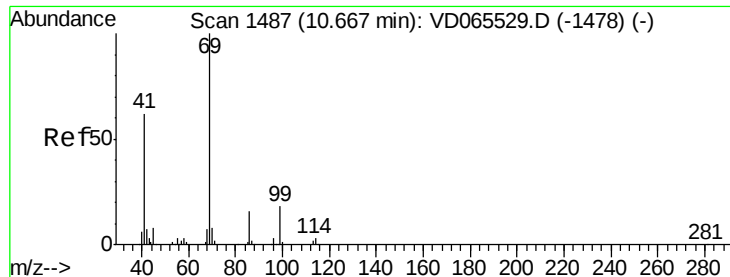
Tot Ion: 98 Resp: 1012439
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.2



#52
Toluene
Concen: 5.962 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. -0.00 min
Lab File: VD065548.D
Acq: 27 Mar 2020 17:09

Tgt Ion: 92 Resp: 76268
Ion Ratio Lower Upper
92 100
91 178.6 137.3 205.9





#56

Ethyl methacrylate

Concen: 3.347 ug/l

RT: 10.67 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

Instrument :

MSVOA_D

ClientSampleID :

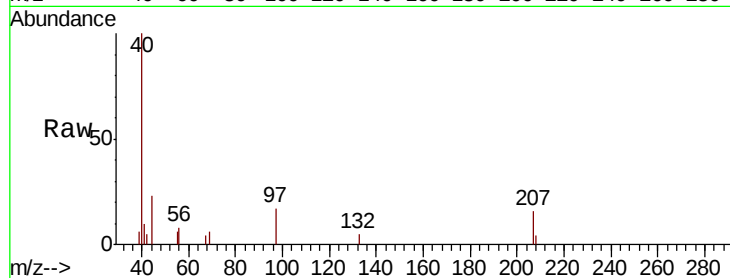
Tot Ion: 69 Resp: 264

Ion Ratio Lower Upper

69 100

41 276.5 51.3 76.9#

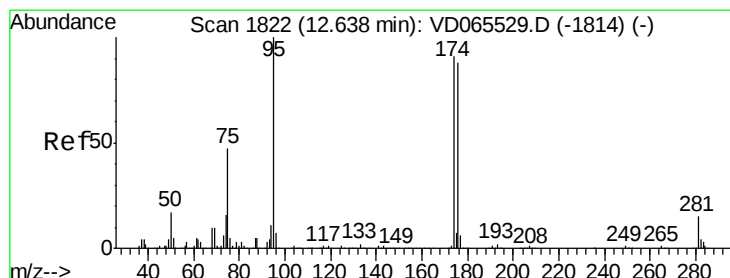
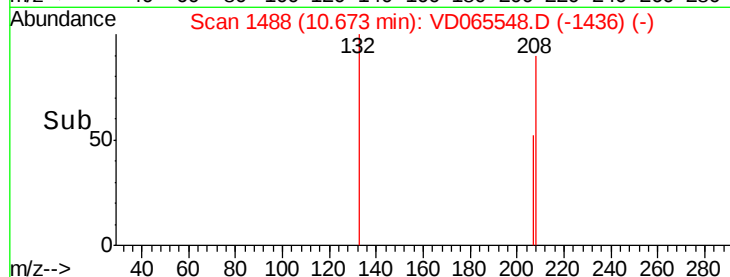
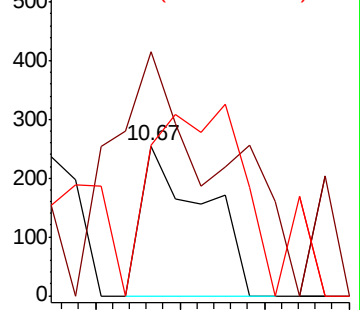
39 203.4 25.3 37.9#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#62

4-Bromofluorobenzene

Concen: 54.408 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

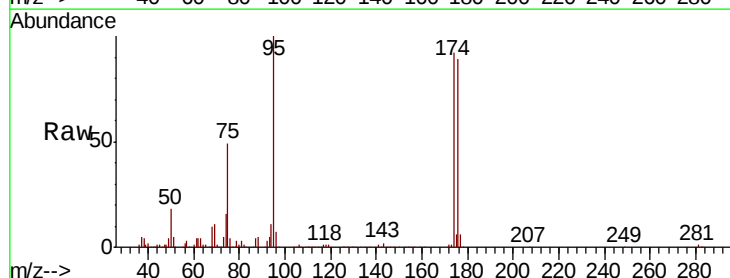
Tgt Ion: 95 Resp: 310060

Ion Ratio Lower Upper

95 100

174 92.3 0.0 183.8

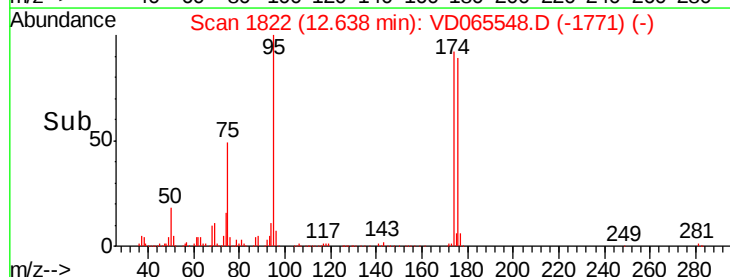
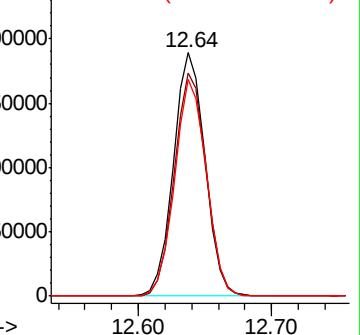
176 89.1 0.0 178.2

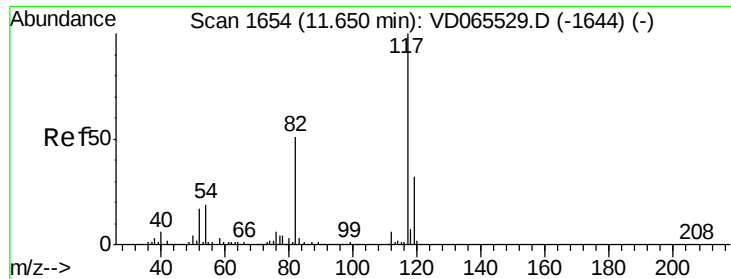


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

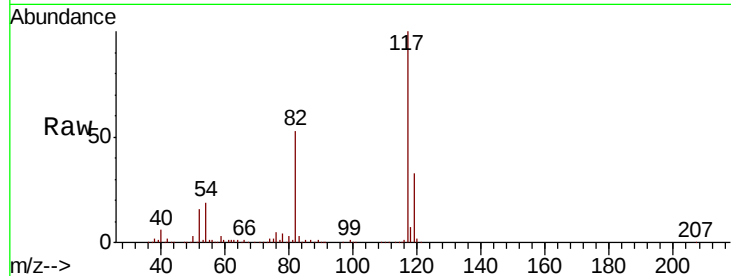




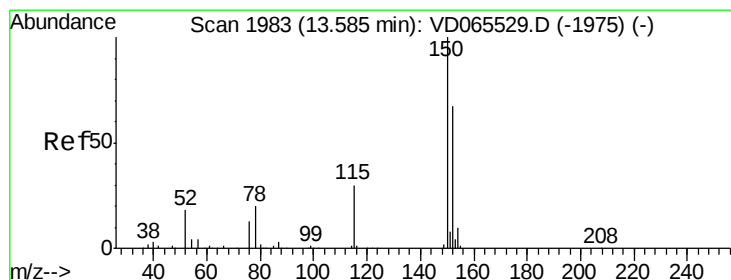
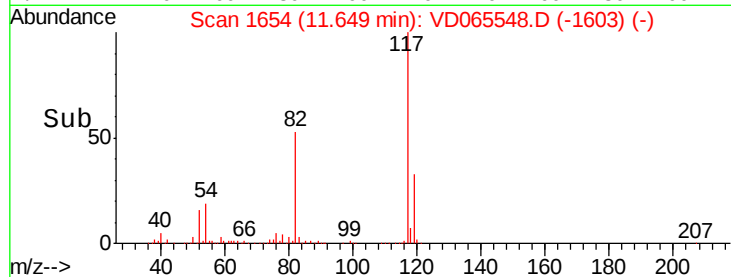
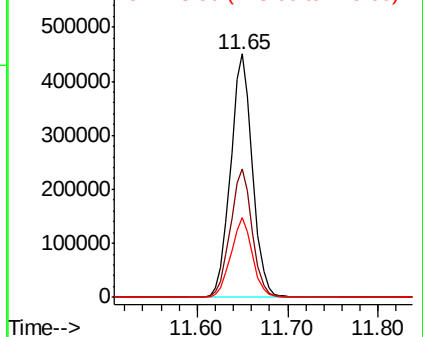
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065548.D
Acq: 27 Mar 2020 17:09

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	41.0	61.6
119	32.7	25.5	38.3

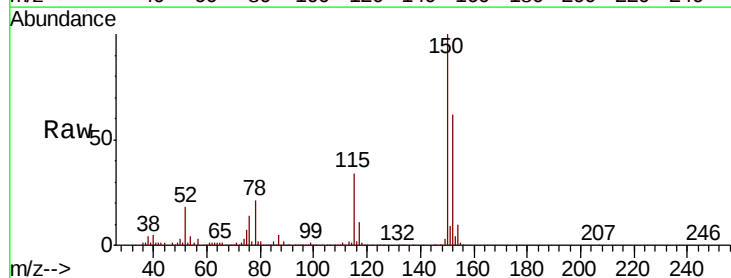


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

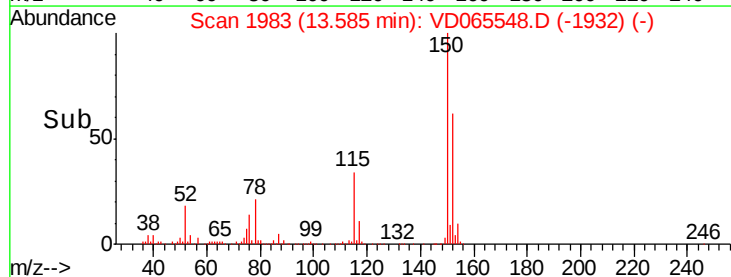
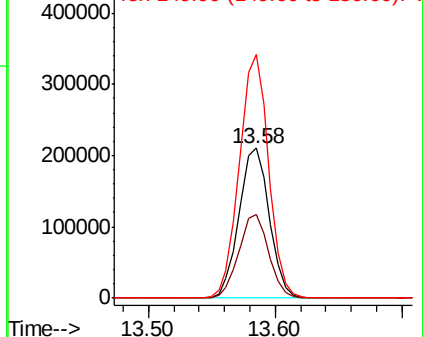


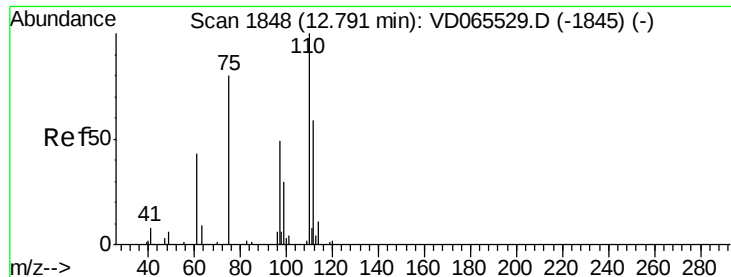
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065548.D
Acq: 27 Mar 2020 17:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	27.2	81.6
150	156.8	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: 54.790 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

Instrument :

MSVOA_D

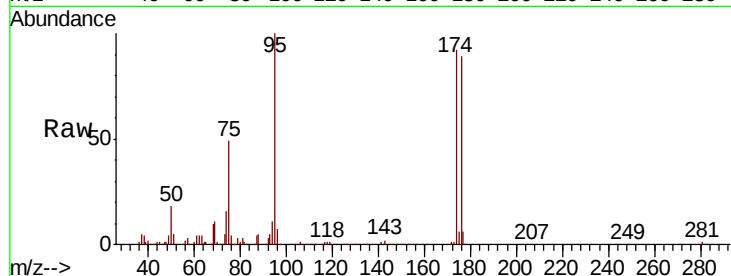
ClientSampleId :

Tot Ion: 75 Resp: 146593

Ion Ratio Lower Upper

75 100

77 1.4 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

100000

80000

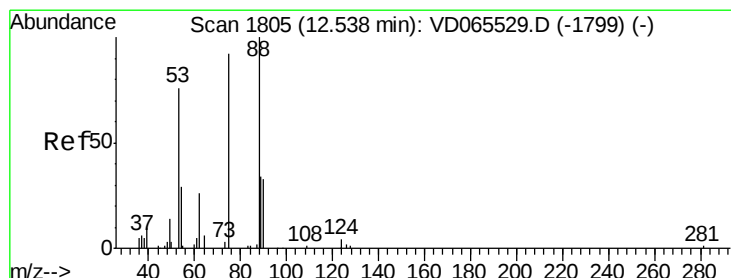
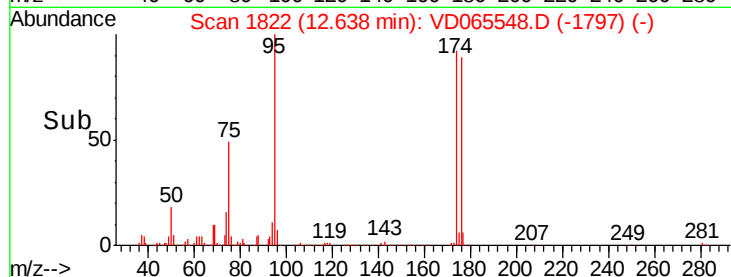
60000

40000

20000

0

Time--> 12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 122.303 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

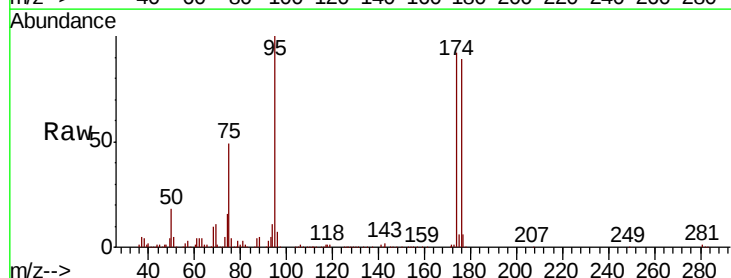
Tgt Ion: 75 Resp: 146593

Ion Ratio Lower Upper

75 100

53 0.1 72.4 108.6#

89 0.0 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

12.64

120000

100000

80000

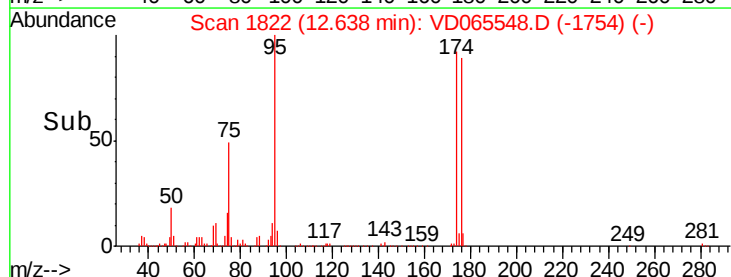
60000

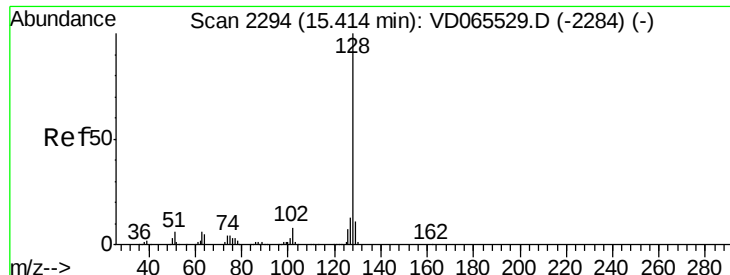
40000

20000

0

Time--> 12.55 12.60 12.65 12.70





#95

Napthalene

Concen: 5.062 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD065548.D

Acq: 27 Mar 2020 17:09

Instrument :

MSVOA_D

ClientSampleId :

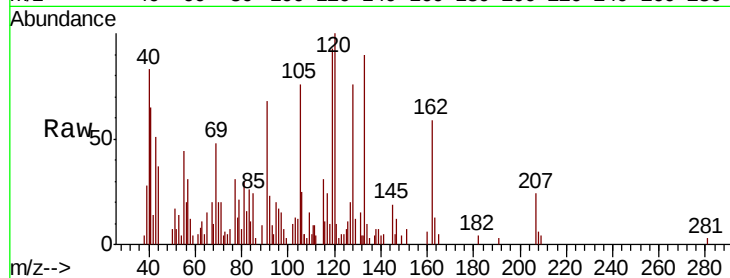
Tot Ion:128 Resp: 8697

Ion Ratio Lower Upper

128 100

127 25.9 10.4 15.6#

129 7.7 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

