

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032720\
 Data File : VD065546.D
 Acq On : 27 Mar 2020 16:12
 Operator : VA/SY
 Sample : L1753-09RE
 Misc : 6.77G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 30 06:34:52 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	477688	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	921536	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	930394	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	364329	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	266288	66.97	ug/l	0.00
Spiked Amount			Recovery	=	133.94%	
35) Dibromofluoromethane	7.92	113	317308	55.78	ug/l	0.00
Spiked Amount			Recovery	=	111.56%	
50) Toluene-d8	10.34	98	1153592	54.02	ug/l	0.00
Spiked Amount			Recovery	=	108.04%	
62) 4-Bromofluorobenzene	12.64	95	379040	55.92	ug/l	0.00
Spiked Amount			Recovery	=	111.84%	

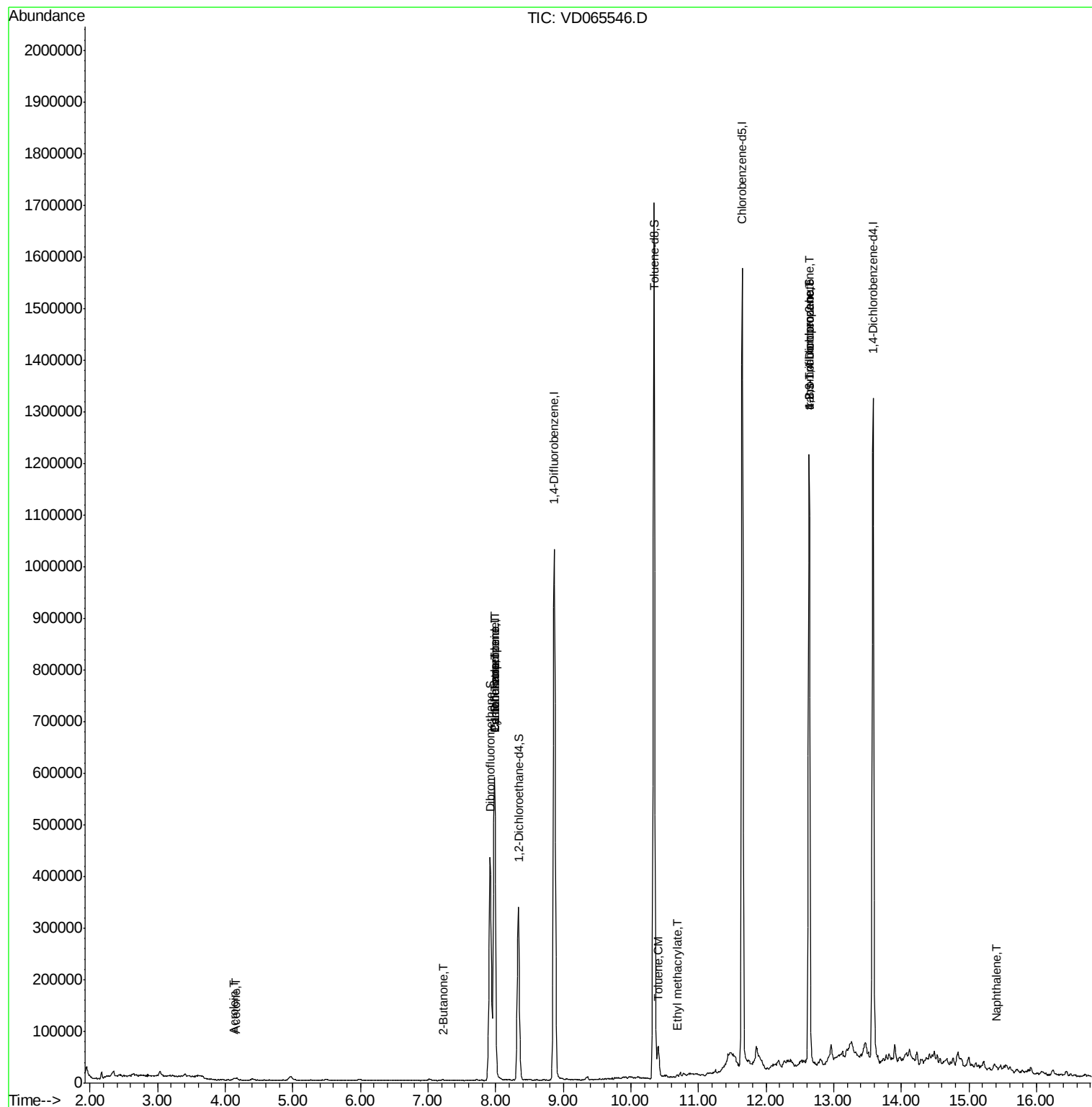
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	56	Below Cal	#	42
3) Chloromethane	2.21	50	444	Below Cal	#	42
5) Bromomethane	2.77	94	239	Below Cal	#	4
13) Acrolein	4.13	56	496	1.314	ug/l #	48
16) Acetone	4.16	43	6768	9.020	ug/l #	85
20) Methylene Chloride	4.97	84	5832	Below Cal	#	79
25) 2-Butanone	7.23	43	1739	1.707	ug/l #	48
31) Cyclohexane	7.98	56	9987	1.336	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	33132	3.935	ug/l #	47
38) Carbon Tetrachloride	7.98	117	43160	4.867	ug/l #	17
52) Toluene	10.41	92	24396	1.603	ug/l	98
56) Ethyl methacrylate	10.68	69	561	3.391	ug/l #	30
76) 1,2,3-Trichloropropane	12.64	75	183072	65.360	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	183072	145.895	ug/l #	13
95) Naphthalene	15.41	128	4315	4.673	ug/l #	83

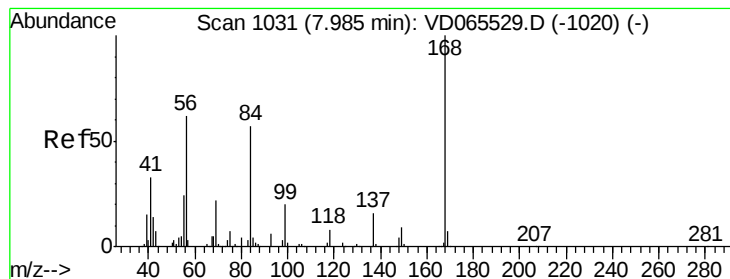
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD065546.D

Acq: 27 Mar 2020 16:12

Instrument :

MSVOA_D

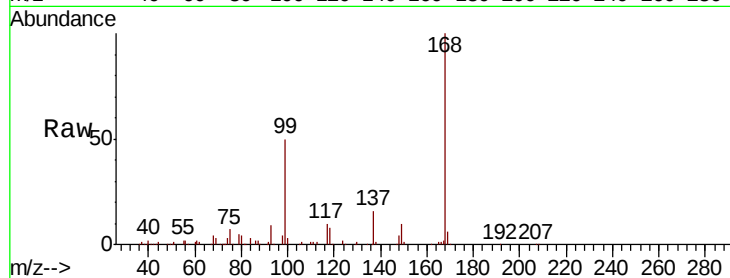
ClientSampleId :

Tot Ion:168 Resp: 477688

Ion Ratio Lower Upper

168 100

99 50.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

250000

200000

150000

100000

50000

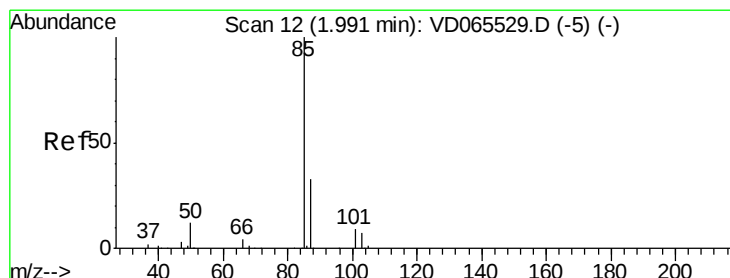
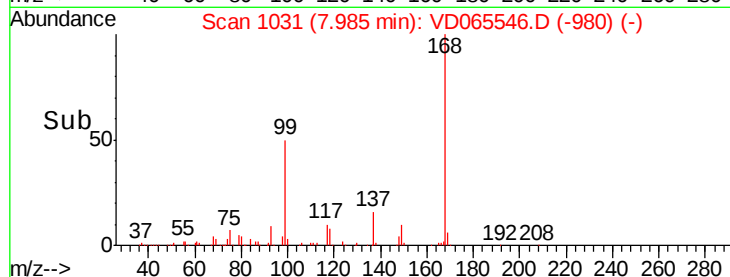
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. -0.01 min

Lab File: VD065546.D

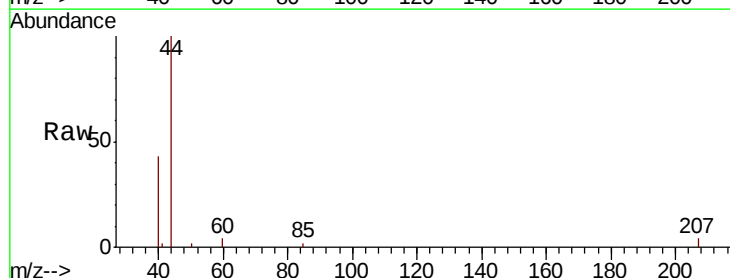
Acq: 27 Mar 2020 16:12

Tgt Ion: 85 Resp: 56

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

150

100

50

0

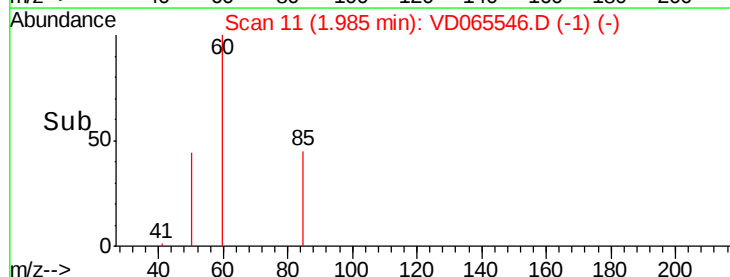
1.97

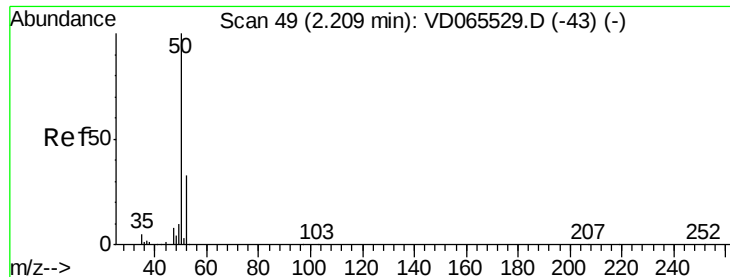
1.98

1.99

2.00

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD065546.D

Acq: 27 Mar 2020 16:12

Instrument :

MSVOA_D

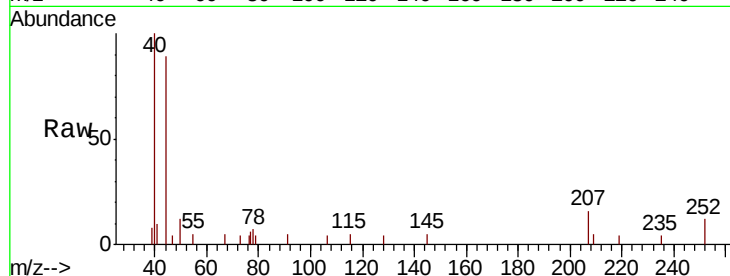
ClientSampled :

Tot Ion: 50 Resp: 444

Ion Ratio Lower Upper

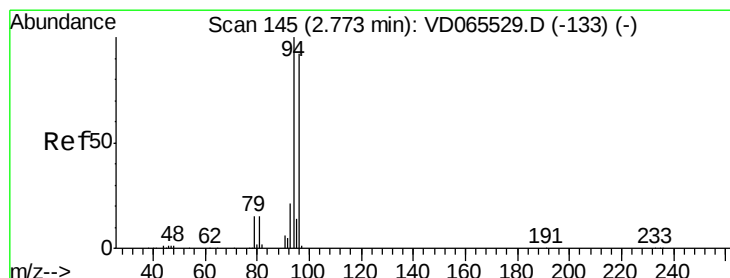
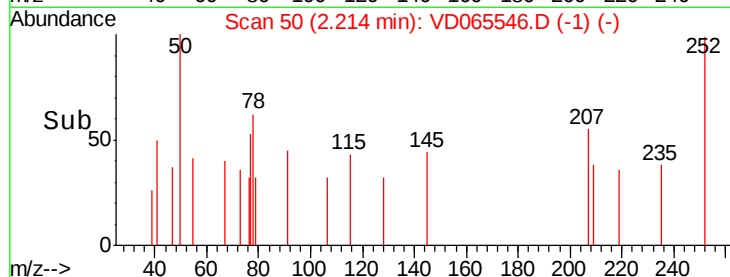
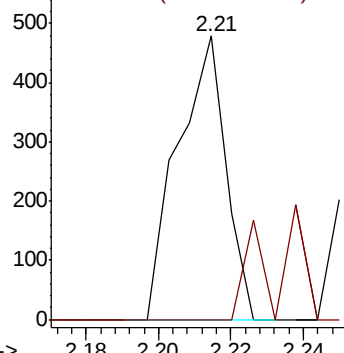
50 100

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: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD065546.D

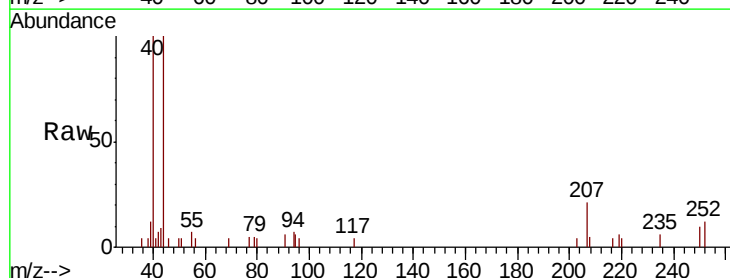
Acq: 27 Mar 2020 16:12

Tgt Ion: 94 Resp: 239

Ion Ratio Lower Upper

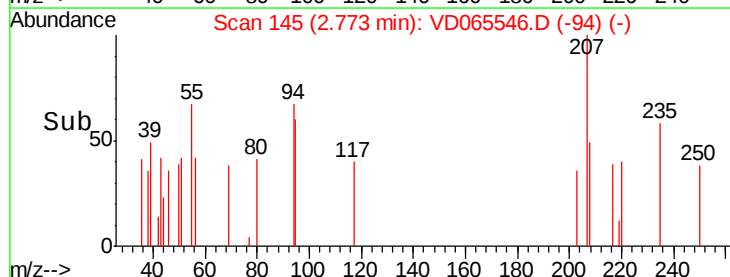
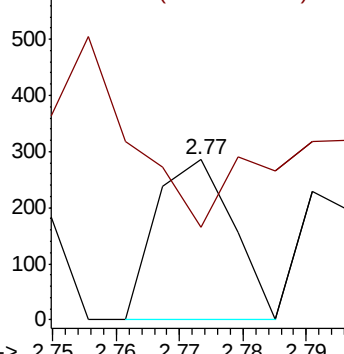
94 100

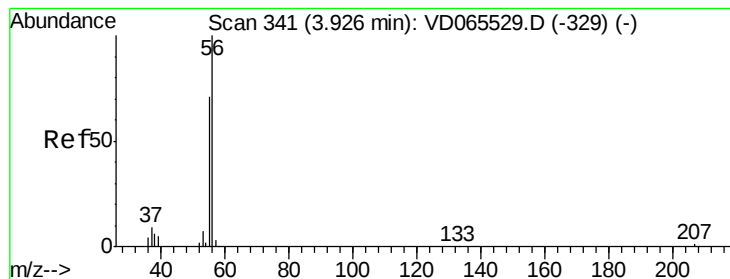
96 0.0 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#13

Acrolein

Concen: 1.314 ug/l

RT: 4.13 min Scan# 375

Delta R.T. 0.20 min

Lab File: VD065546.D

Acq: 27 Mar 2020 16:12

Instrument :

MSVOA_D

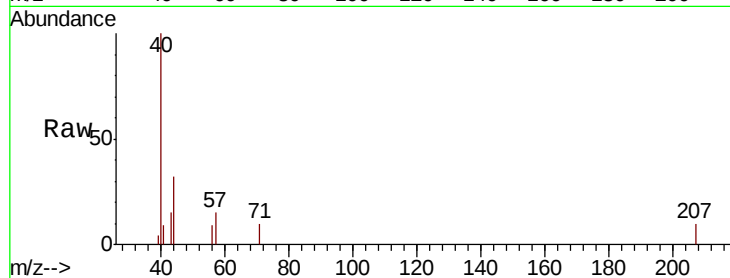
ClientSampled :

Tot Ion: 56 Resp: 496

Ion Ratio Lower Upper

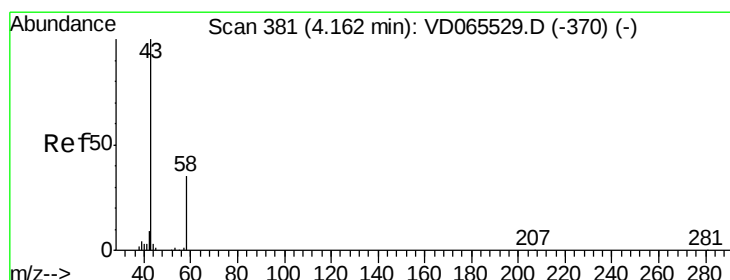
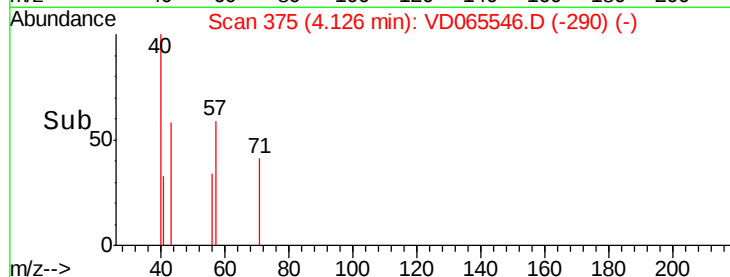
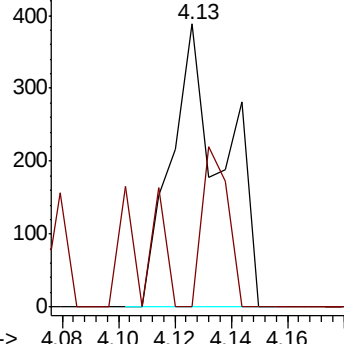
56 100

55 27.8 56.2 84.2#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 9.020 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.00 min

Lab File: VD065546.D

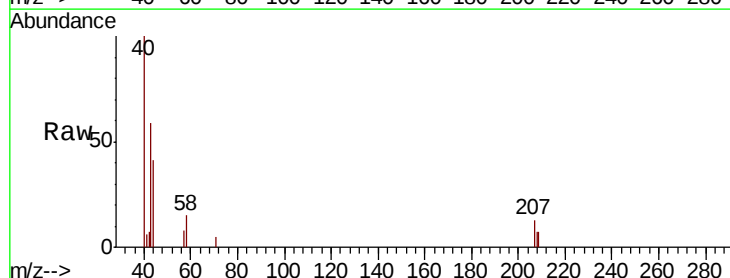
Acq: 27 Mar 2020 16:12

Tgt Ion: 43 Resp: 6768

Ion Ratio Lower Upper

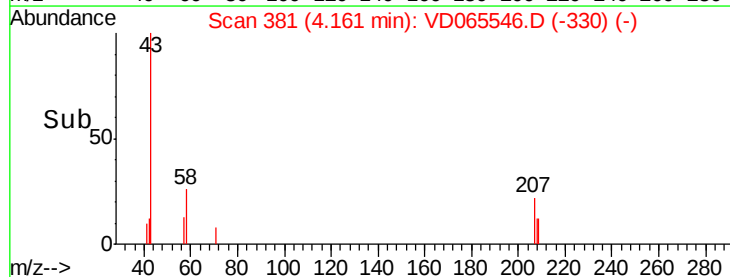
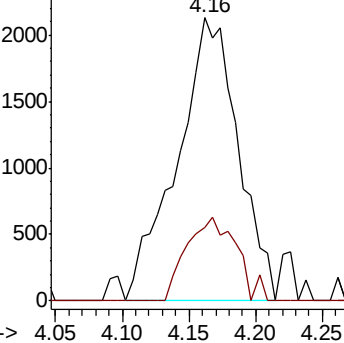
43 100

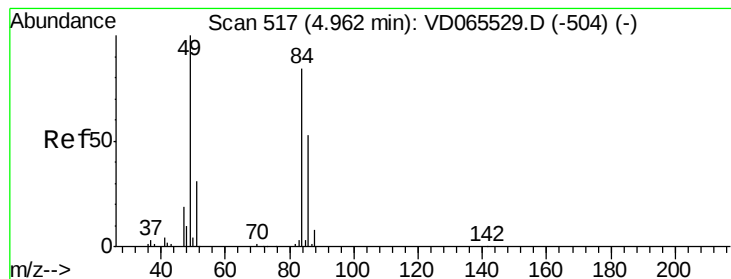
58 26.2 27.9 41.9#



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: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD065546.D

Acq: 27 Mar 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 5832

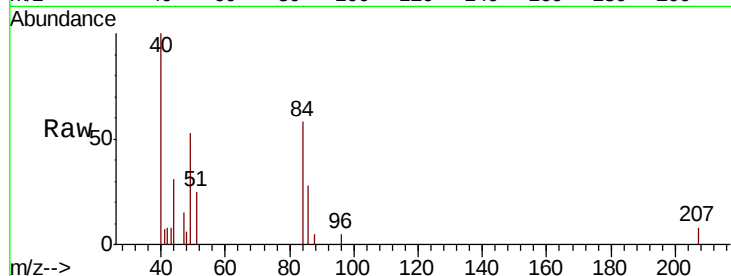
Ion Ratio Lower Upper

84 100

49 91.3 95.6 143.4#

51 42.5 29.4 44.2

86 49.1 50.6 76.0#

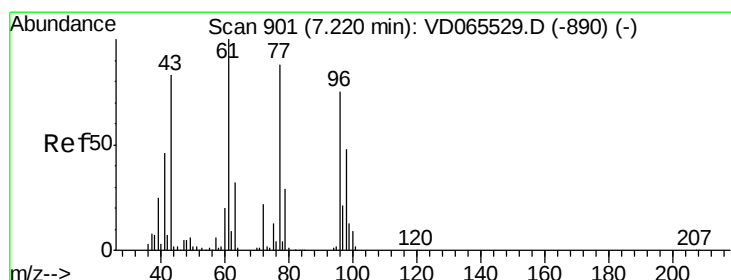
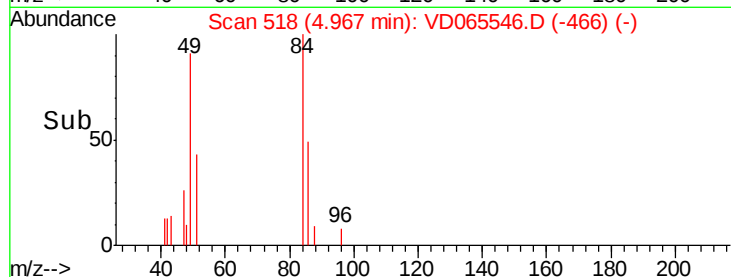
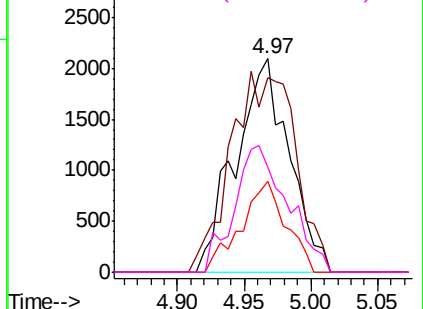


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#25

2-Butanone

Concen: 1.707 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD065546.D

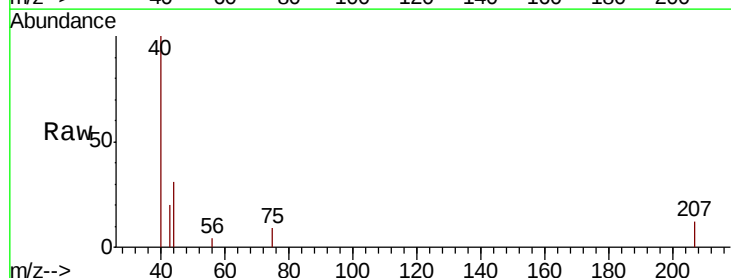
Acq: 27 Mar 2020 16:12

Tgt Ion: 43 Resp: 1739

Ion Ratio Lower Upper

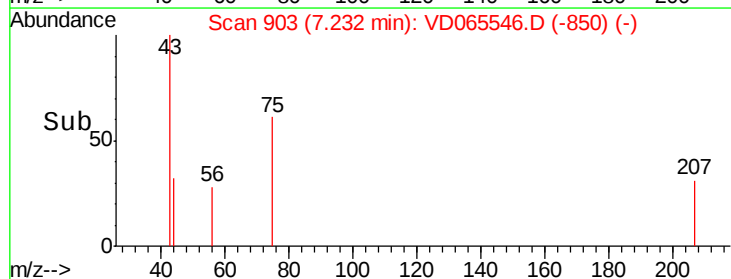
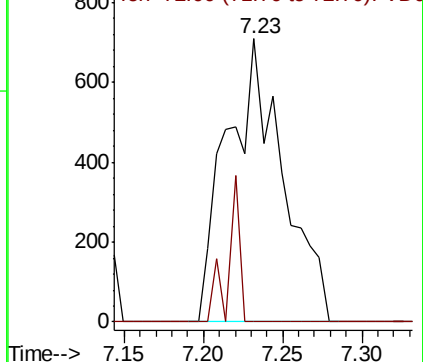
43 100

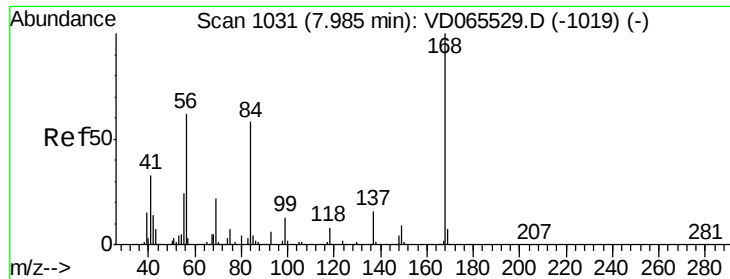
72 0.0 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

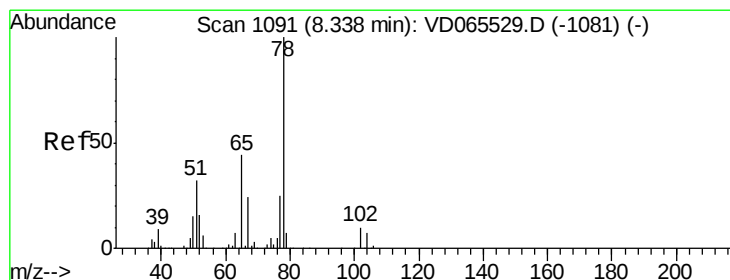
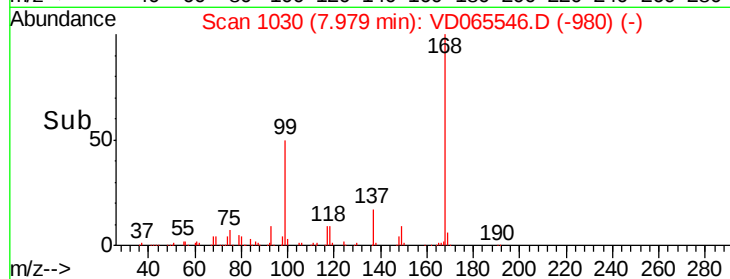
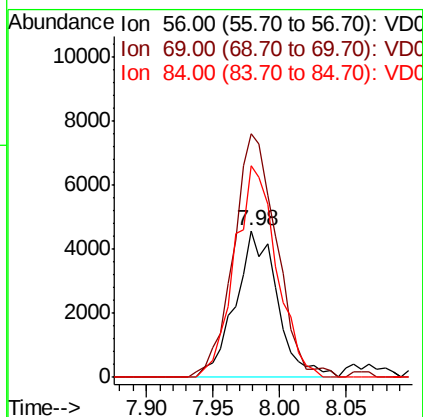
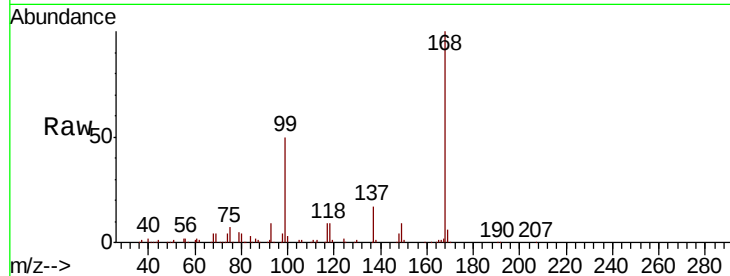




#31
Cyclohexane
Concen: 1.336 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD065546.D
Acq: 27 Mar 2020 16:12

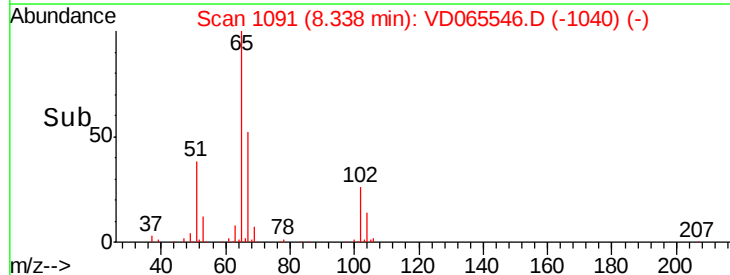
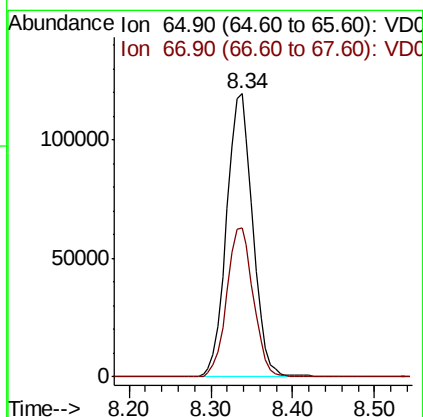
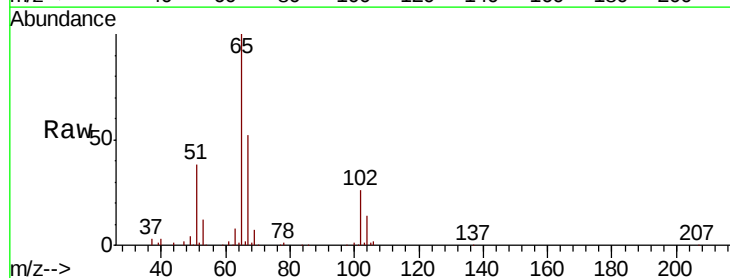
Instrument :
MSVOA_D
ClientSampleId :

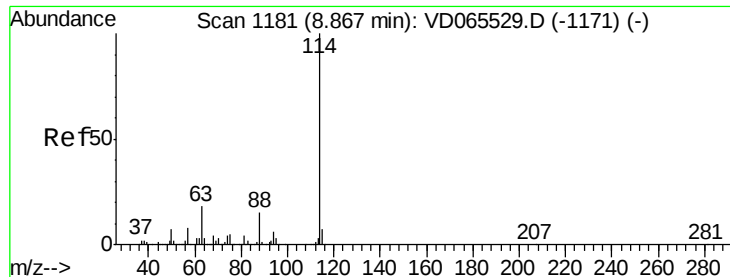
Tot Ion: 56 Resp: 9987
Ion Ratio Lower Upper
56 100
69 165.7 28.2 42.4#
84 148.1 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 66.967 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD065546.D
Acq: 27 Mar 2020 16:12

Tgt Ion: 65 Resp: 266288
Ion Ratio Lower Upper
65 100
67 53.3 0.0 107.6

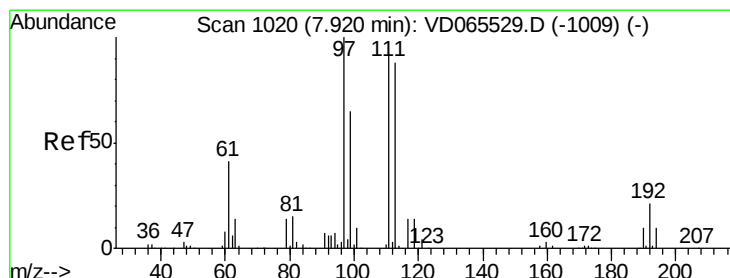
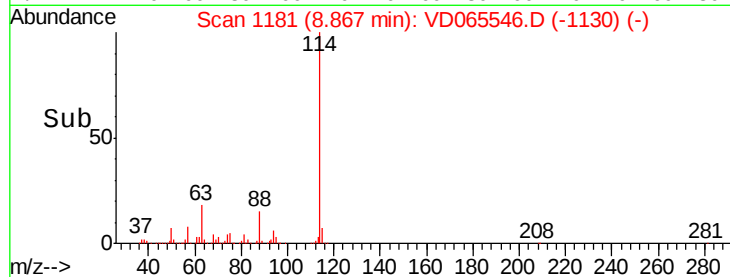
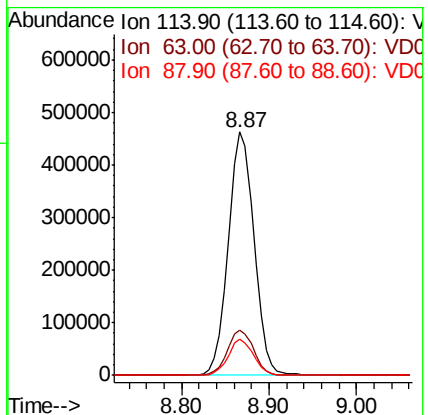
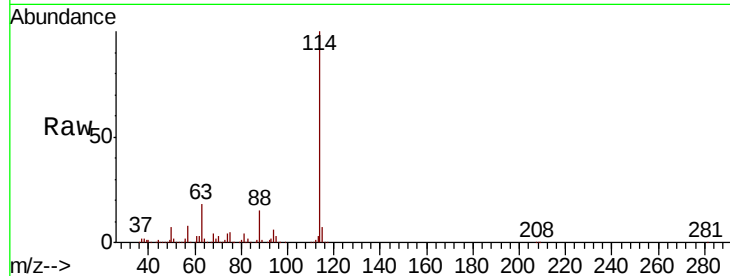




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065546.D
 Acq: 27 Mar 2020 16:12

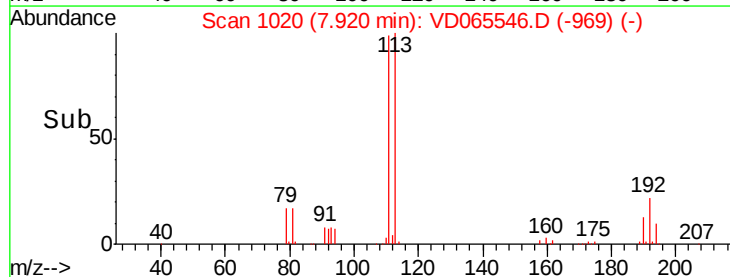
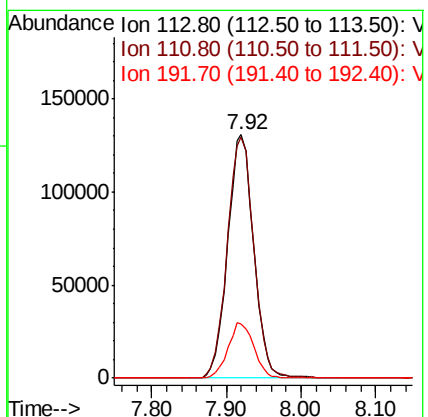
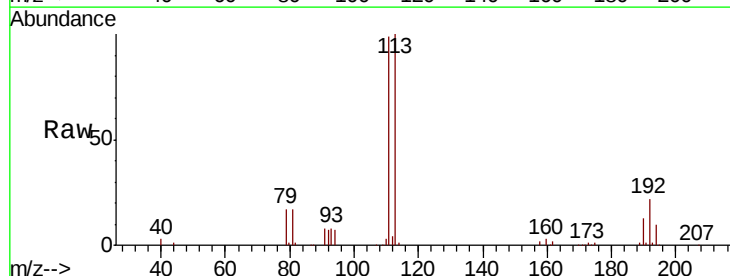
Instrument :
 MSVOA_D
 ClientSampleId :

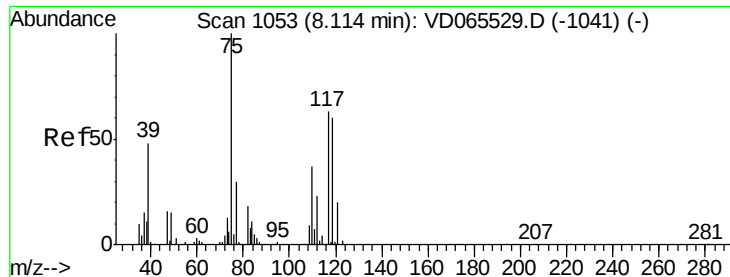
Tot Ion:114 Resp: 921536
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 37.0
 88 15.1 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 55.784 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065546.D
 Acq: 27 Mar 2020 16:12

Tgt Ion:113 Resp: 317308
 Ion Ratio Lower Upper
 113 100
 111 100.8 83.3 124.9
 192 22.5 18.5 27.7

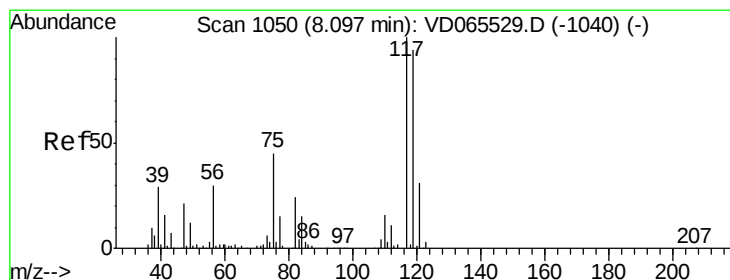
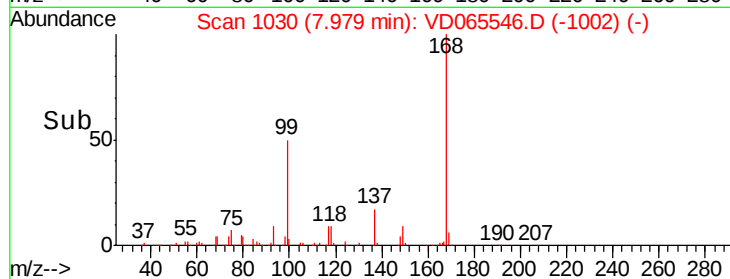
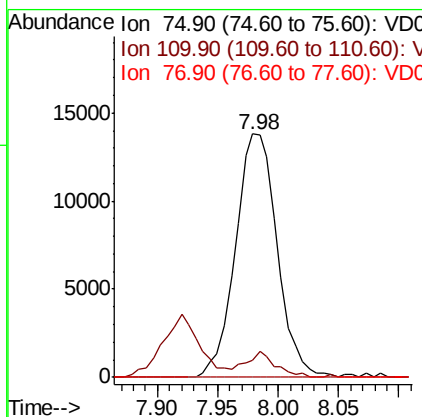
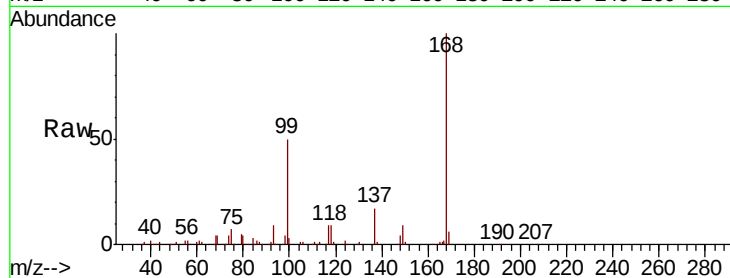




#36
 1,1-Dichloropropene
 Concen: 3.935 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD065546.D
 Acq: 27 Mar 2020 16:12

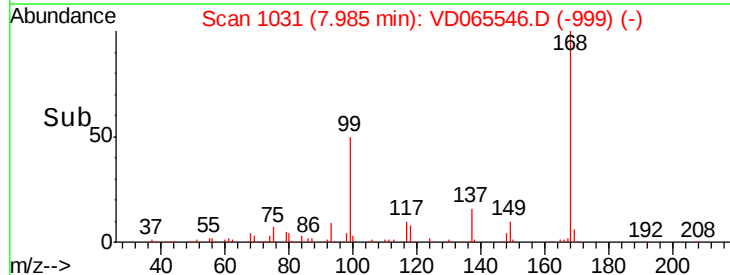
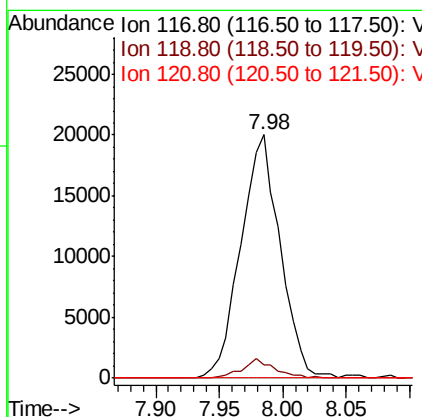
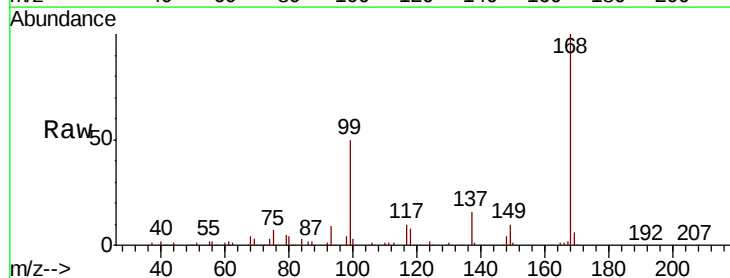
Instrument :
 MSVOA_D
 ClientSampleId :

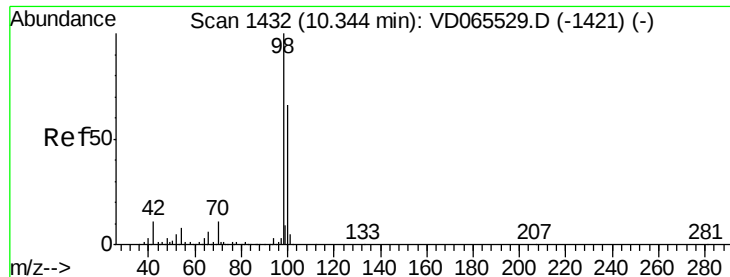
Tot Ion: 75 Resp: 33132
 Ion Ratio Lower Upper
 75 100
 110 7.6 18.8 56.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 4.867 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD065546.D
 Acq: 27 Mar 2020 16:12

Tgt Ion: 117 Resp: 43160
 Ion Ratio Lower Upper
 117 100
 119 5.2 75.2 112.8#
 121 0.0 24.5 36.7#





#50

Toluene-d8

Concen: 54.020 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065546.D

Acq: 27 Mar 2020 16:12

Instrument :

MSVOA_D

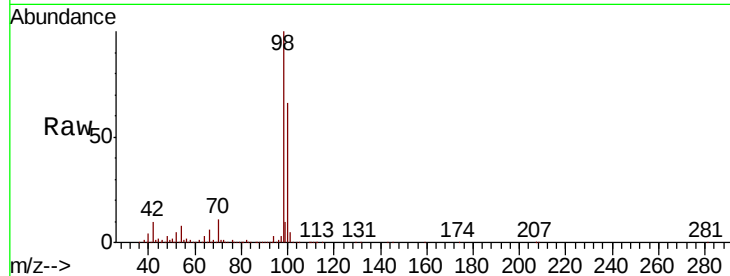
ClientSampleId :

Tot Ion: 98 Resp: 1153592

Ion Ratio Lower Upper

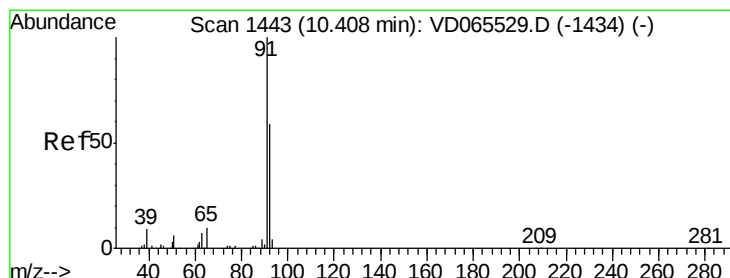
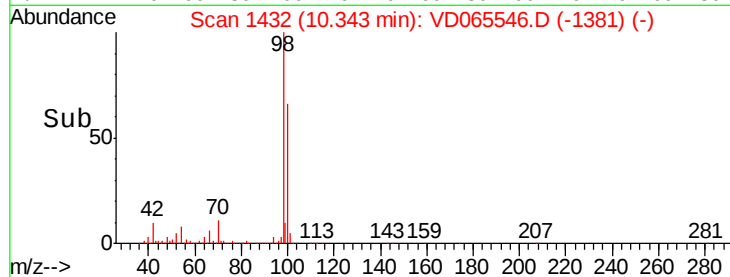
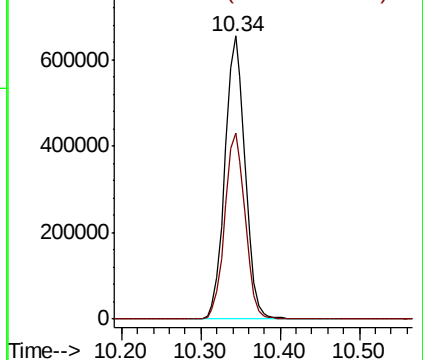
98 100

100 66.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#52

Toluene

Concen: 1.603 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD065546.D

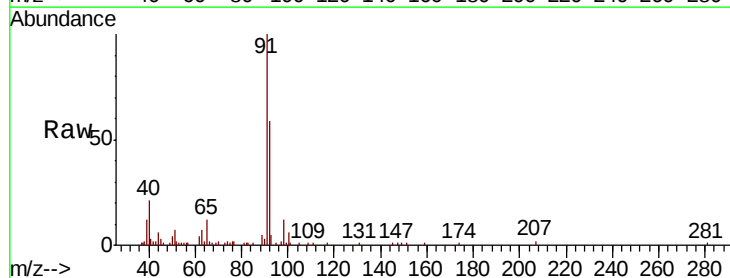
Acq: 27 Mar 2020 16:12

Tgt Ion: 92 Resp: 24396

Ion Ratio Lower Upper

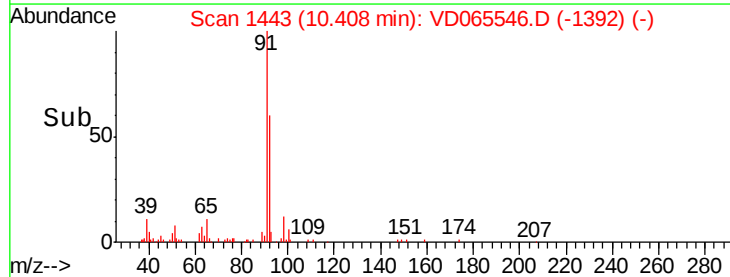
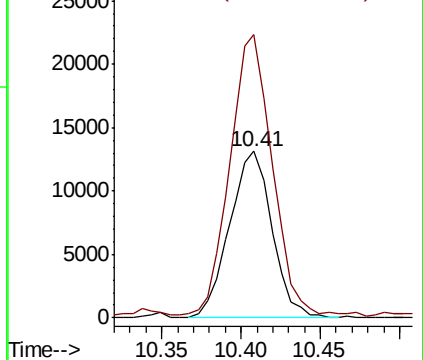
92 100

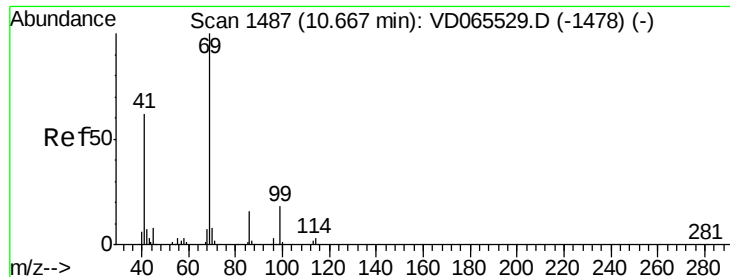
91 168.9 137.3 205.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#56

Ethyl methacrylate

Concen: 3.391 ug/l

RT: 10.68 min Scan# 1489

Delta R.T. 0.01 min

Lab File: VD065546.D

Acq: 27 Mar 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

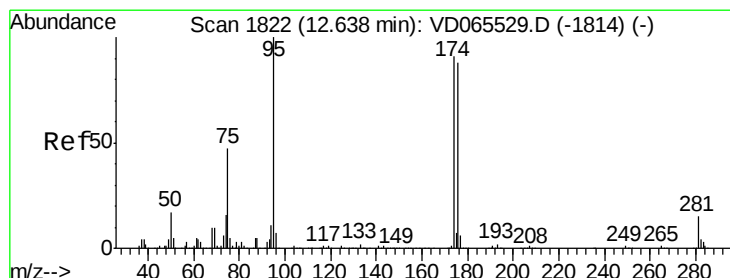
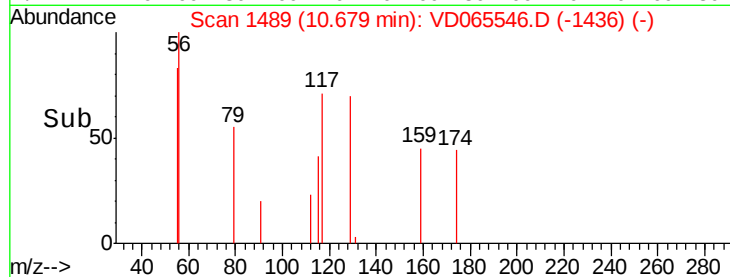
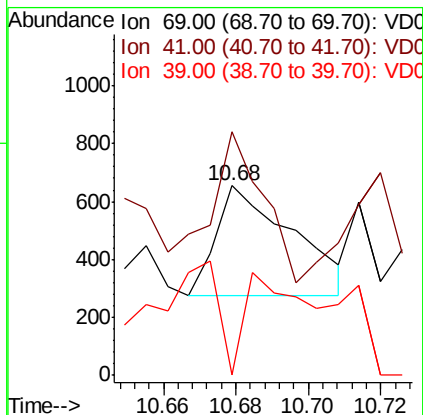
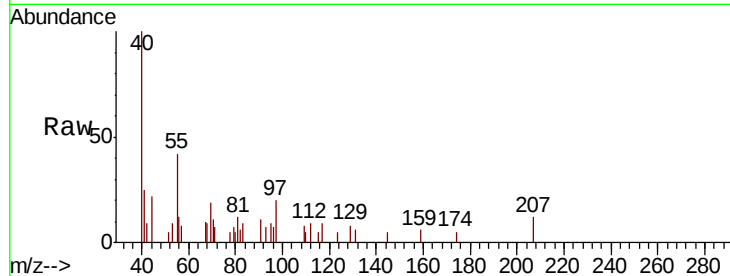
Tot Ion: 69 Resp: 561

Ion Ratio Lower Upper

69 100

41 93.9 51.3 76.9#

39 107.0 25.3 37.9#



#62

4-Bromofluorobenzene

Concen: 55.924 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065546.D

Acq: 27 Mar 2020 16:12

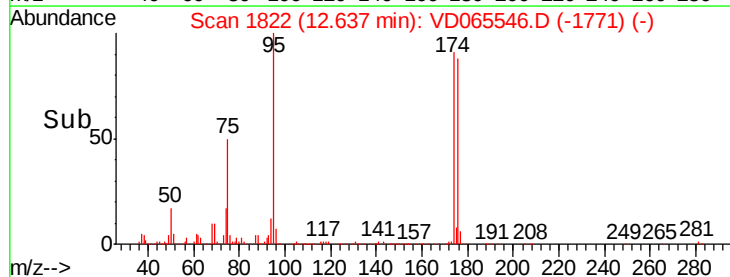
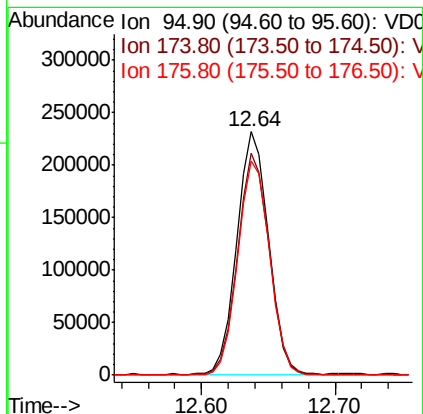
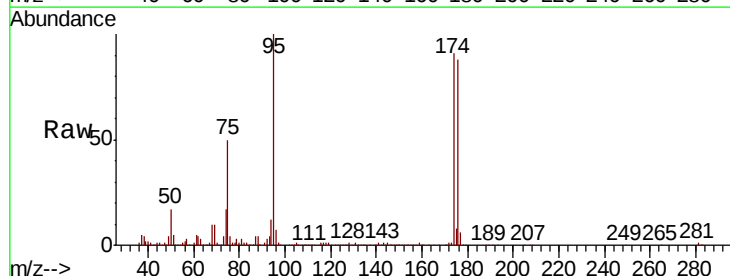
Tgt Ion: 95 Resp: 379040

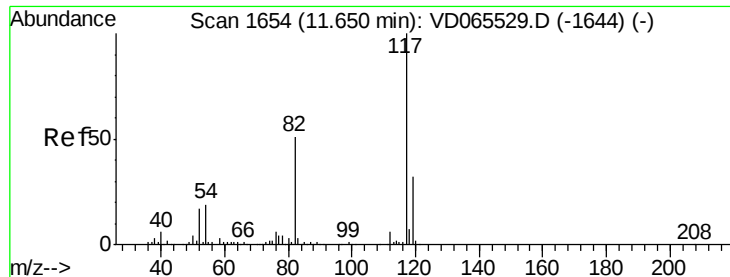
Ion Ratio Lower Upper

95 100

174 92.1 0.0 183.8

176 88.8 0.0 178.2

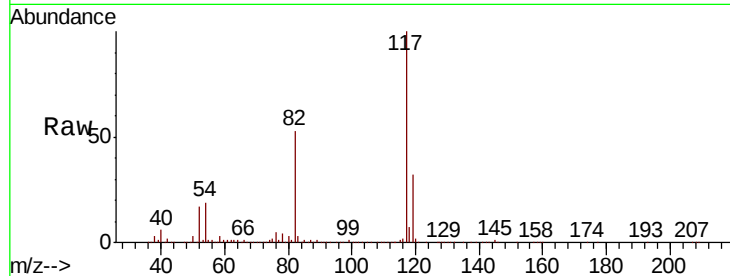




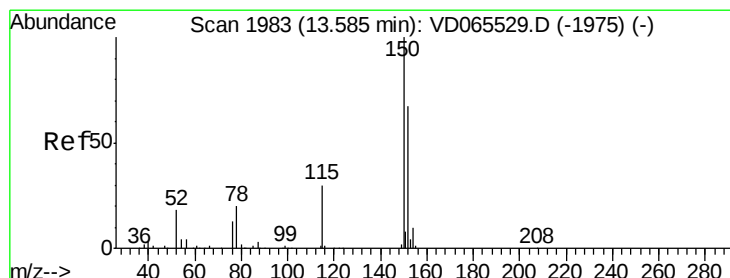
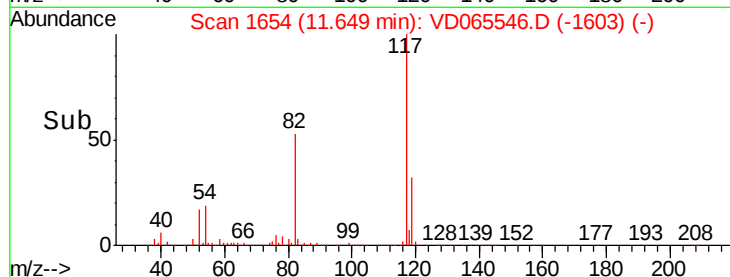
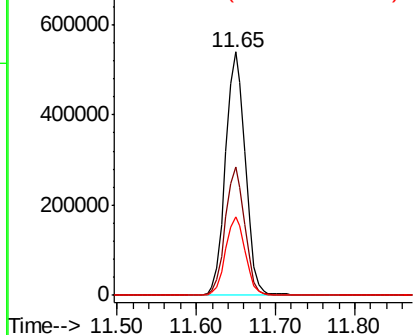
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065546.D
Acq: 27 Mar 2020 16:12

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	41.0	61.6
119	32.0	25.5	38.3

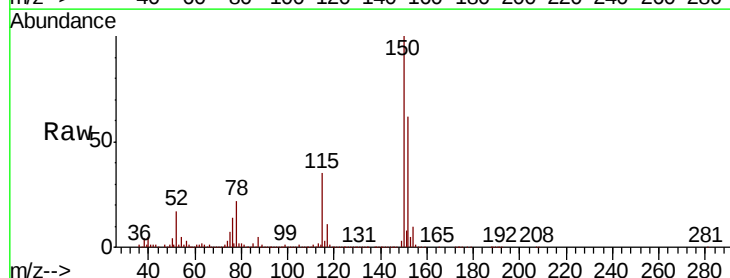


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

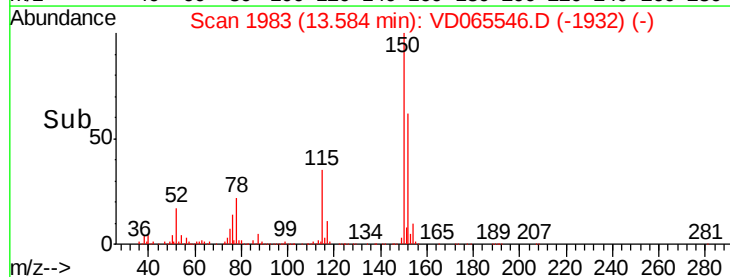
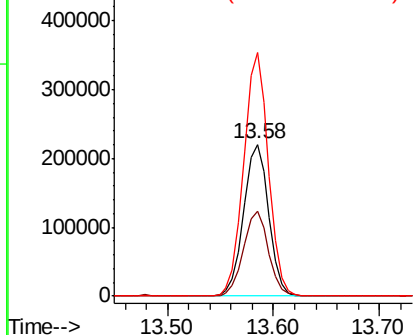


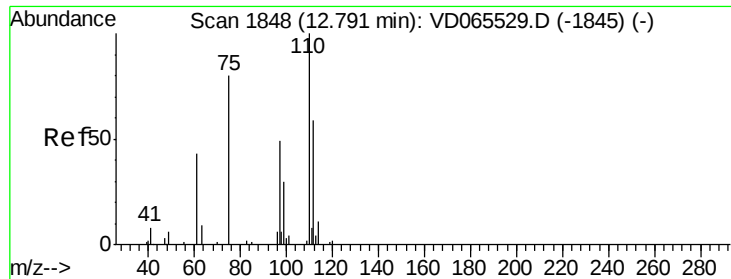
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065546.D
Acq: 27 Mar 2020 16:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	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

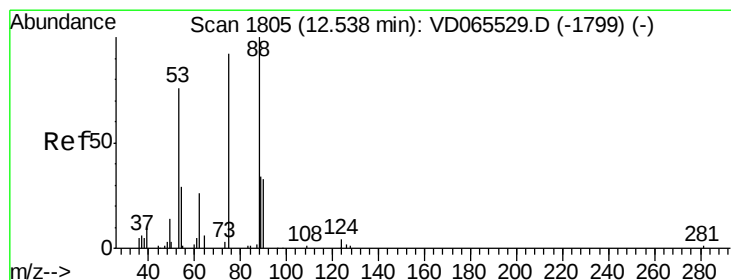
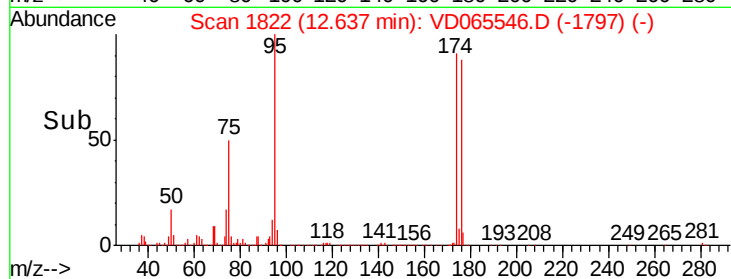
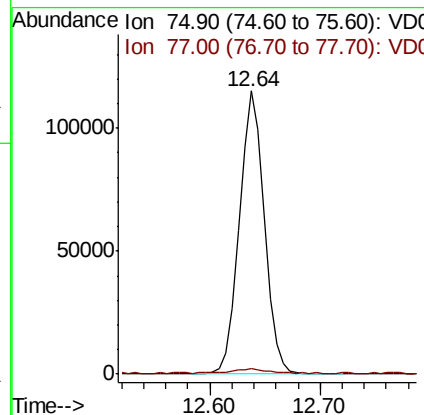
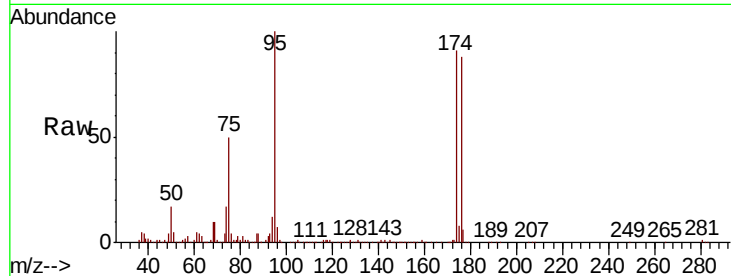




#76
 1,2,3-Trichloropropane
 Concen: 65.360 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD065546.D
 Acq: 27 Mar 2020 16:12

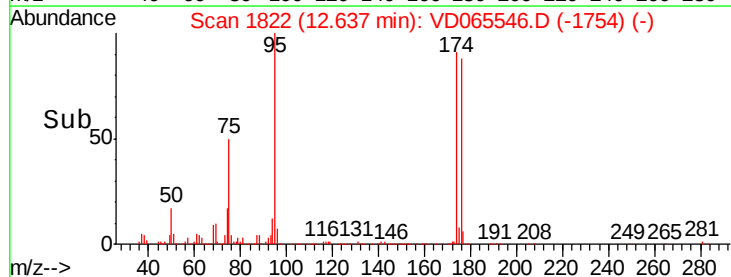
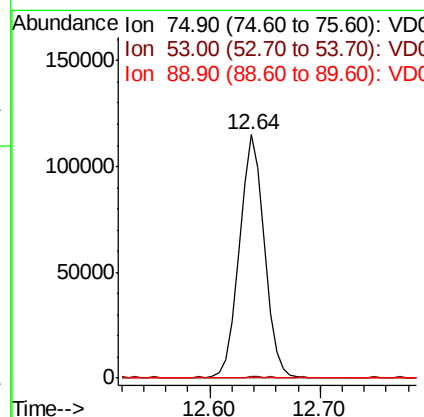
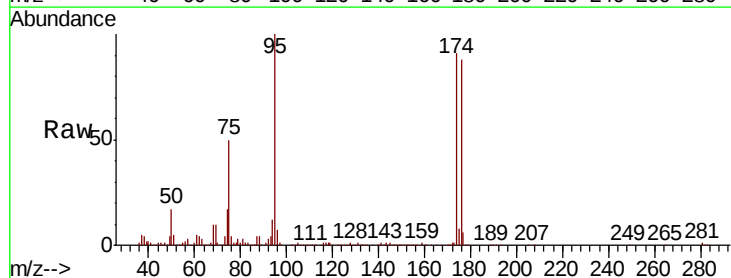
Instrument :
 MSVOA_D
 ClientSampled :

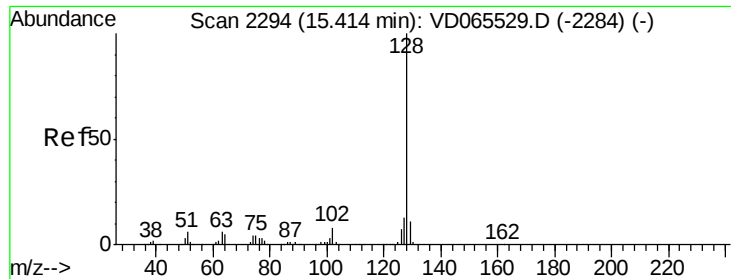
Tot Ion: 75 Resp: 183072
 Ion Ratio Lower Upper
 75 100
 77 2.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 145.895 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.10 min
 Lab File: VD065546.D
 Acq: 27 Mar 2020 16:12

Tgt Ion: 75 Resp: 183072
 Ion Ratio Lower Upper
 75 100
 53 0.3 72.4 108.6#
 89 0.3 36.9 55.3#





#95
Naphthalene
Concen: 4.673 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD065546.D
Acq: 27 Mar 2020 16:12

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	20.6	10.4	15.6#
129	16.0	8.7	13.1#

