

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\
 Data File : VD067039.D
 Acq On : 02 Oct 2020 16:53
 Operator : VA/SY
 Sample : L4213-11
 Misc : 5.10G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-3

Quant Time: Oct 03 04:49:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	473599	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	797801	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	772045	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	364037	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	240134	52.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.28%	
35) Dibromofluoromethane	7.91	113	257912	49.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.76%	
50) Toluene-d8	10.34	98	960060	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
62) 4-Bromofluorobenzene	12.63	95	349605	54.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.22%	

Target Compounds

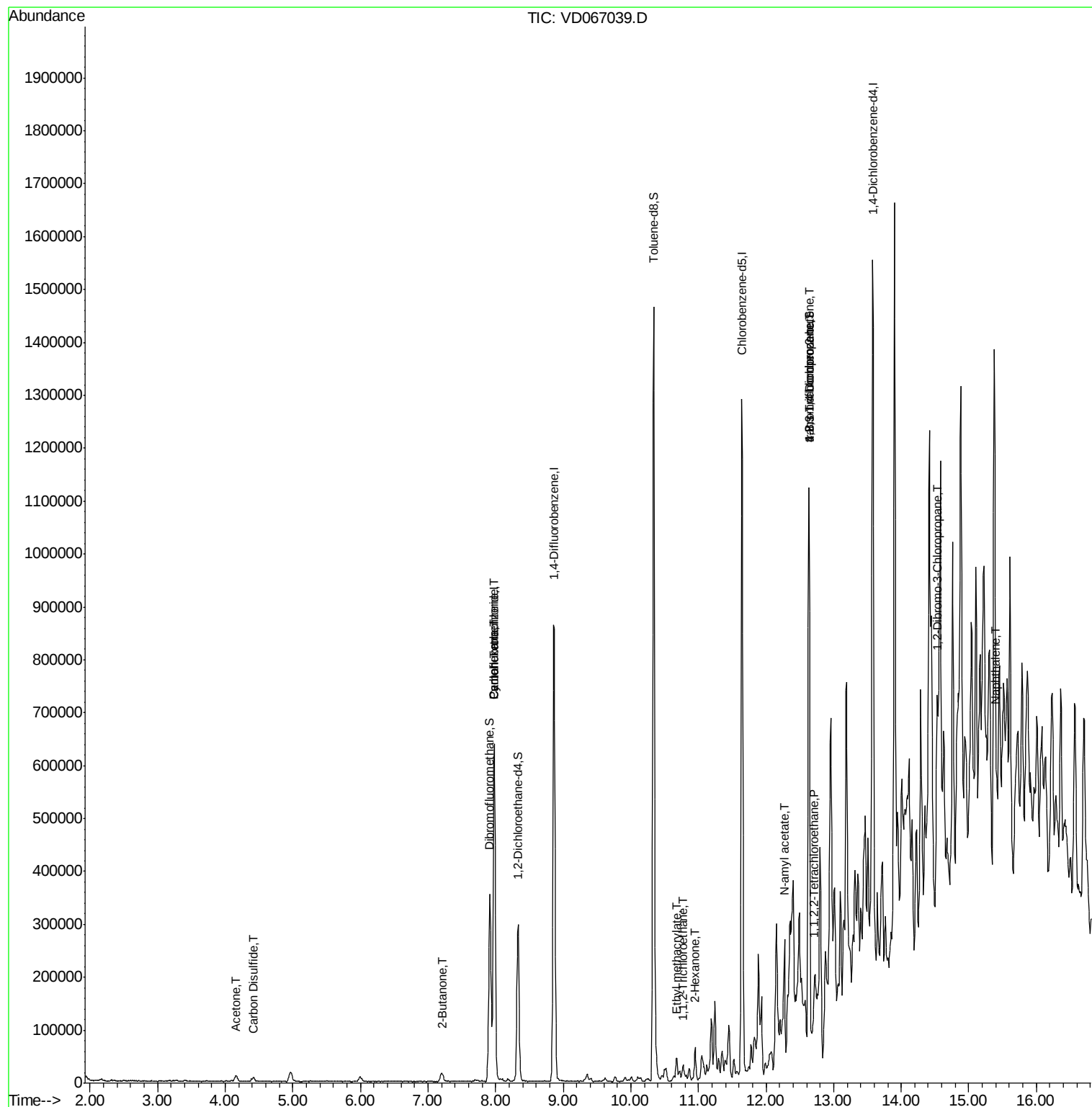
						Qvalue
2) Dichlorodifluoromethane	1.99	85	1412	Below Cal		95
5) Bromomethane	2.78	94	429	Below Cal	#	30
11) Tert butyl alcohol	5.20	59	306	Below Cal	#	72
16) Acetone	4.16	43	20455	29.375	ug/l	92
17) Carbon Disulfide	4.41	76	17071	1.246	ug/l #	91
20) Methylene Chloride	4.96	84	14870	Below Cal	#	84
25) 2-Butanone	7.21	43	4389	4.446	ug/l	91
26) 2,2-Dichloropropane	7.19	77	523	Below Cal	#	53
31) Cyclohexane	7.98	56	9962	1.454	ug/l #	1
38) Carbon Tetrachloride	7.98	117	45769	5.688	ug/l #	15
55) 1,1,2-Trichloroethane	10.77	97	10580	2.728	ug/l #	23
56) Ethyl methacrylate	10.68	69	4113	1.027	ug/l #	1
59) 2-Hexanone	10.95	43	21971	13.925	ug/l #	27
74) N-amyl acetate	12.27	43	45604	10.263	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	12.71	83	4944	1.187	ug/l #	54
76) 1,2,3-Trichloropropane	12.64	75	167604	52.857	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	167604	131.780	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.53	75	1363	2.030	ug/l #	14
95) Naphthalene	15.41	128	11536	1.053	ug/l #	69

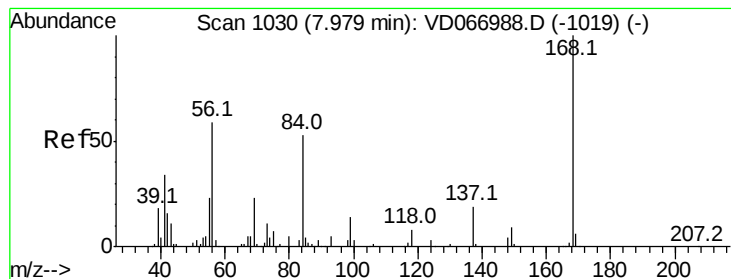
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 01 15:19:17 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067039.D

Acq: 02 Oct 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

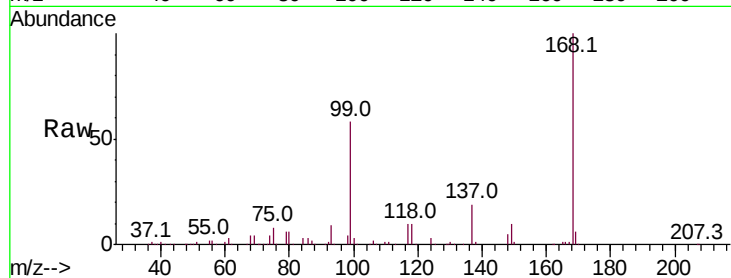
DUP-3

Tot Ion:168 Resp: 473599

Ion Ratio Lower Upper

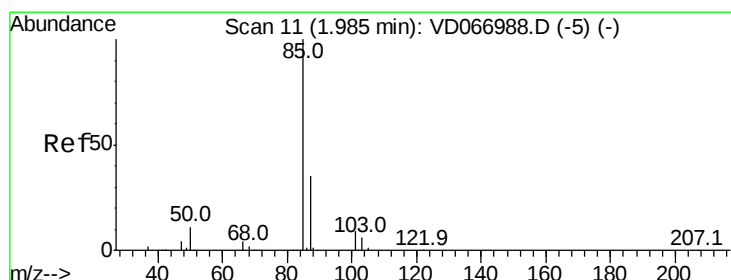
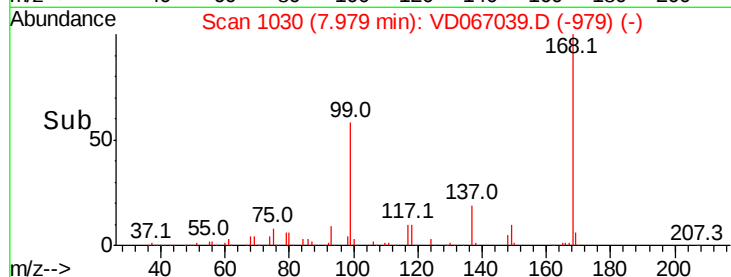
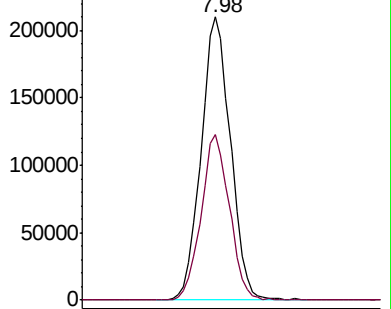
168 100

99 58.3 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067039.D

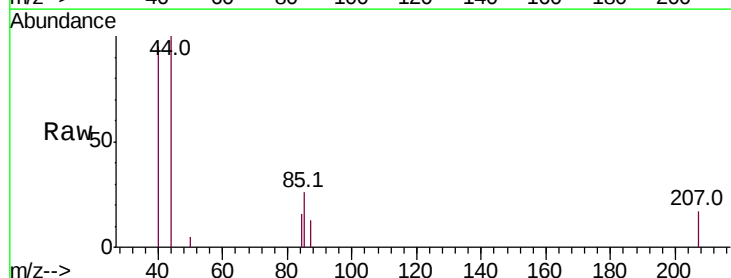
Acq: 02 Oct 2020 16:53

Tgt Ion: 85 Resp: 1412

Ion Ratio Lower Upper

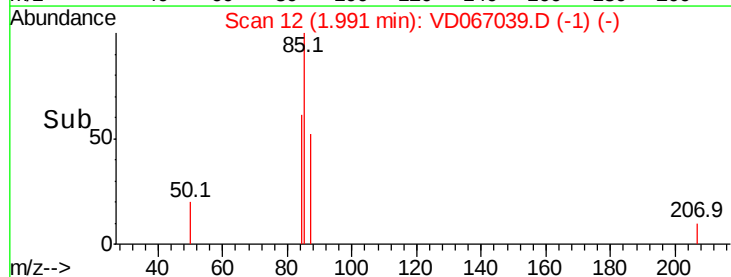
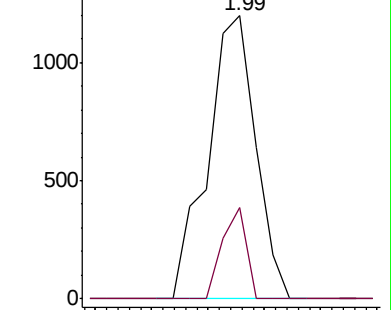
85 100

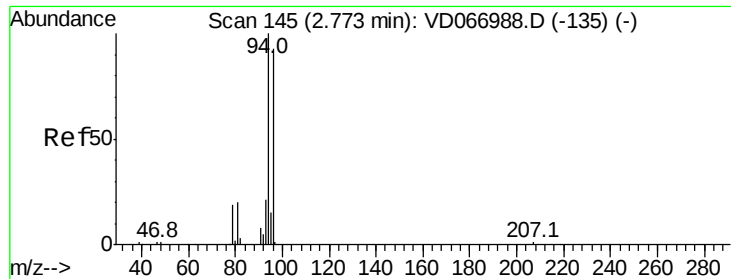
87 32.1 17.3 52.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067039.D

Acq: 02 Oct 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

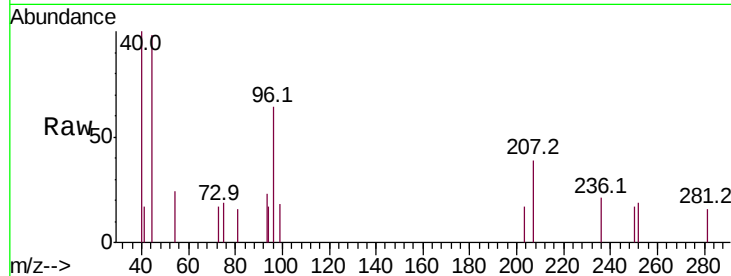
DUP-3

Tot Ion: 94 Resp: 429

Ion Ratio Lower Upper

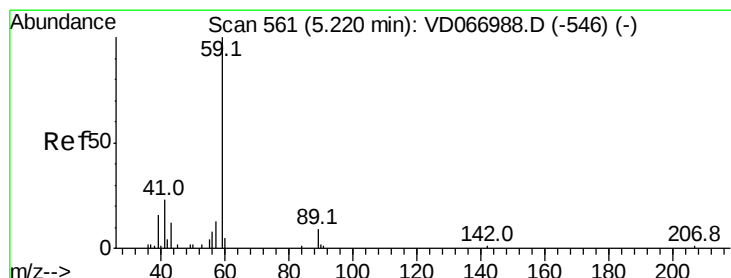
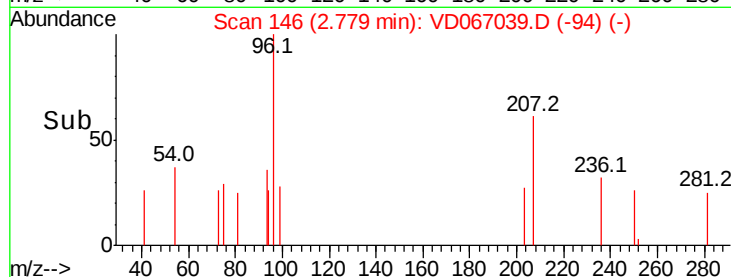
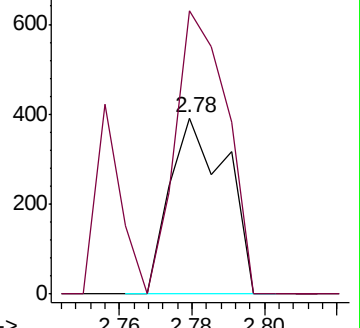
94 100

96 160.5 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD067039.D

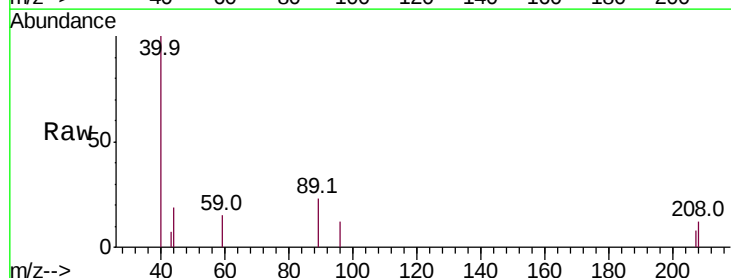
Acq: 02 Oct 2020 16:53

Tgt Ion: 59 Resp: 306

Ion Ratio Lower Upper

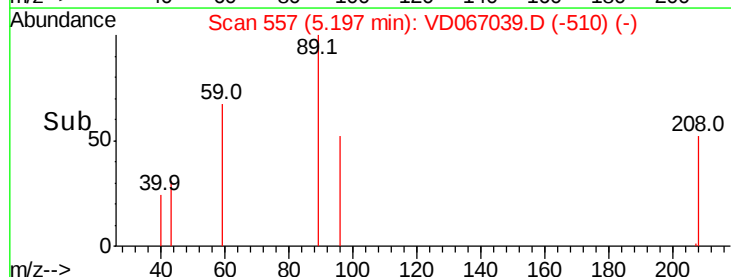
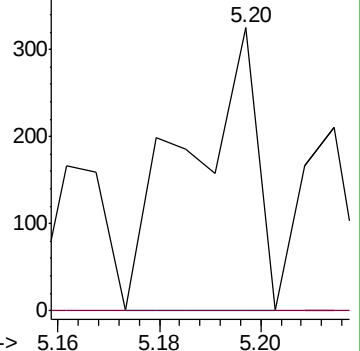
59 100

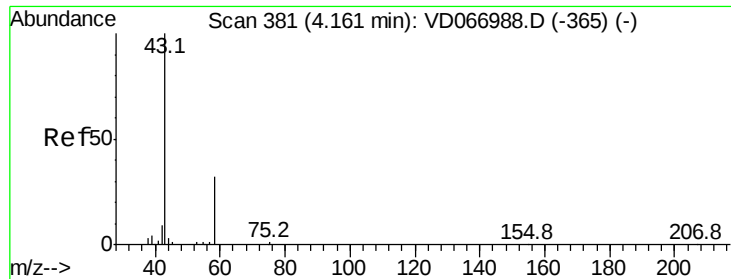
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 29.375 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067039.D

Acq: 02 Oct 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

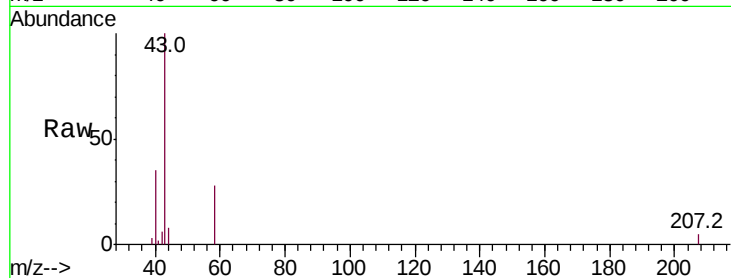
DUP-3

Tot Ion: 43 Resp: 20455

Ion Ratio Lower Upper

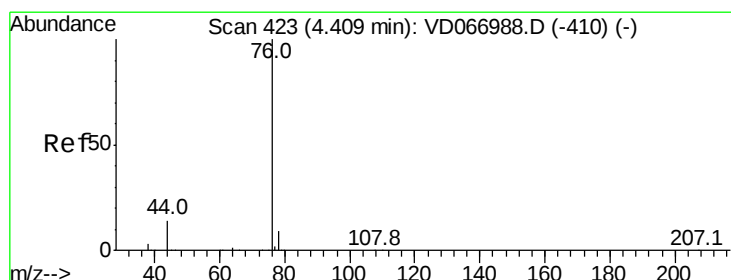
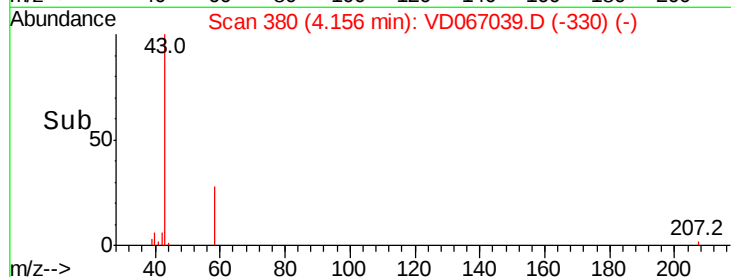
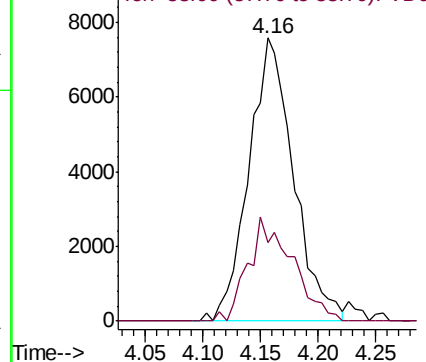
43 100

58 27.8 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#17

Carbon Disulfide

Concen: 1.246 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.00 min

Lab File: VD067039.D

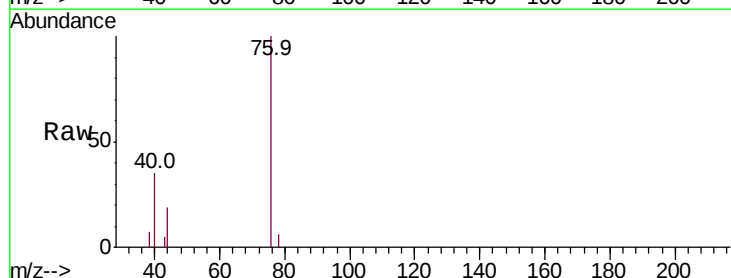
Acq: 02 Oct 2020 16:53

Tgt Ion: 76 Resp: 17071

Ion Ratio Lower Upper

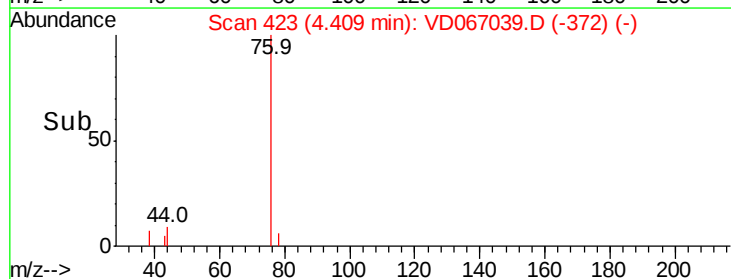
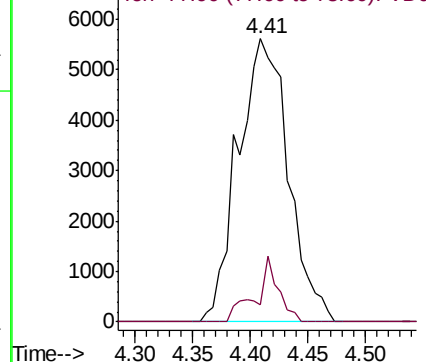
76 100

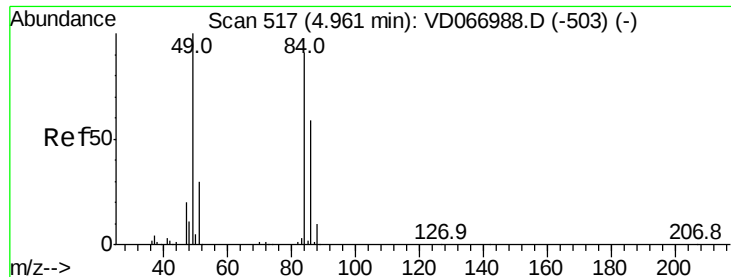
78 6.1 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

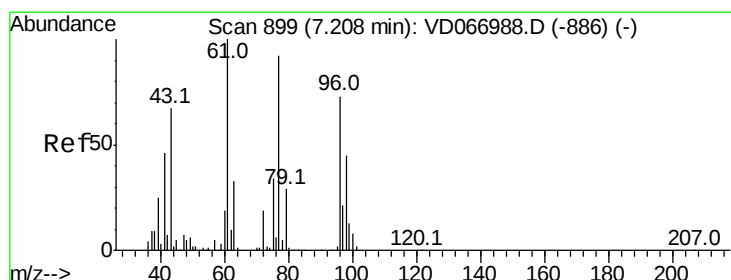
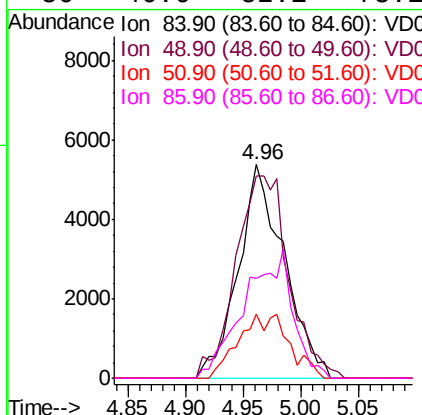
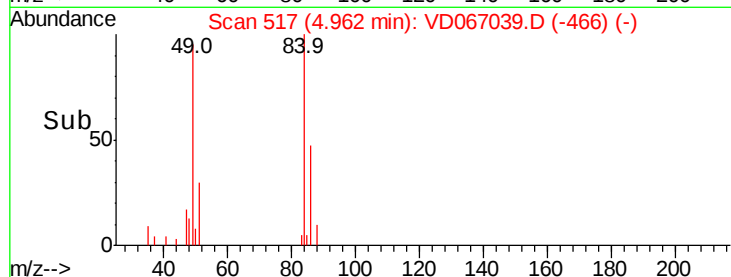
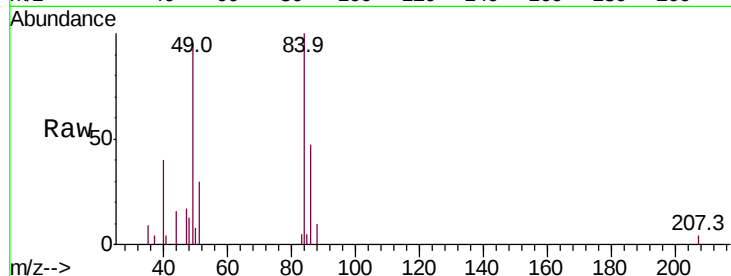




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD067039.D
Acq: 02 Oct 2020 16:53

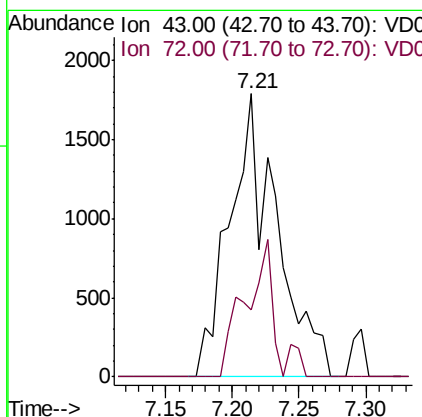
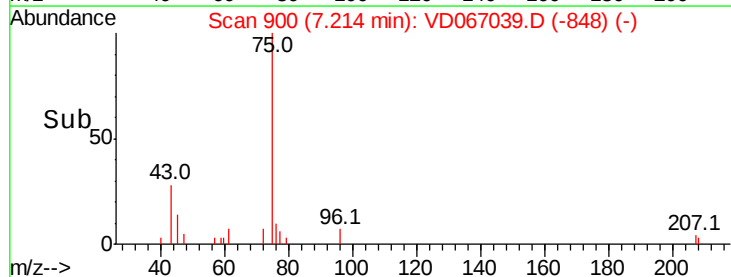
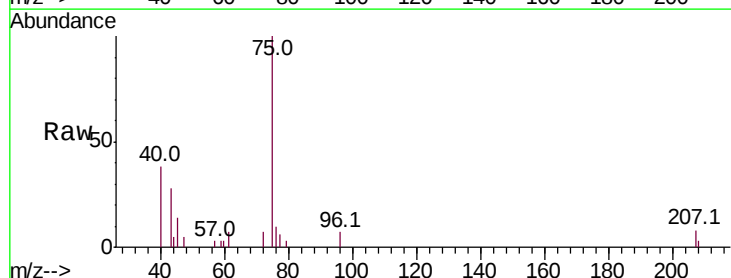
Instrument :
MSVOA_D
ClientSampleId :
DUP-3

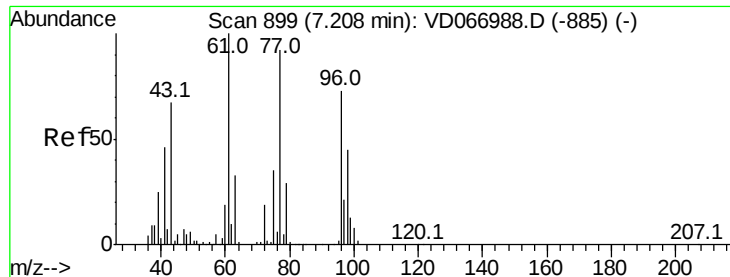
Tot Ion: 84 Resp: 14870
Ion Ratio Lower Upper
84 100
49 94.7 88.2 132.2
51 30.0 26.6 39.8
86 46.6 52.1 78.1#



#25
2-Butanone
Concen: 4.446 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.01 min
Lab File: VD067039.D
Acq: 02 Oct 2020 16:53

Tgt Ion: 43 Resp: 4389
Ion Ratio Lower Upper
43 100
72 23.9 22.8 34.2

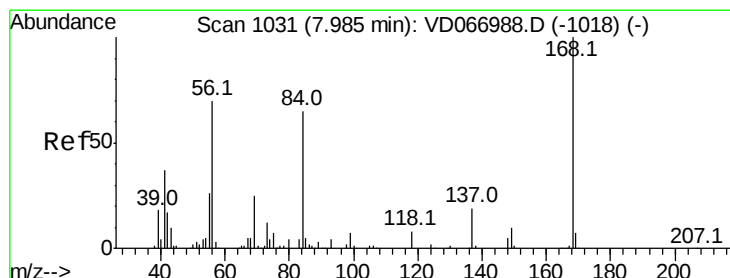
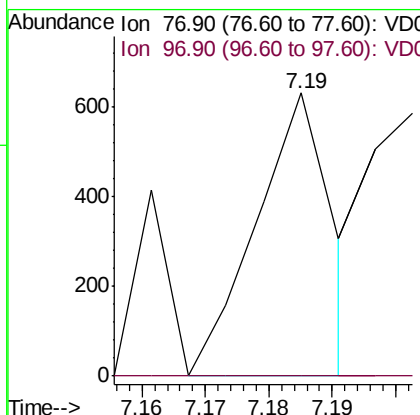
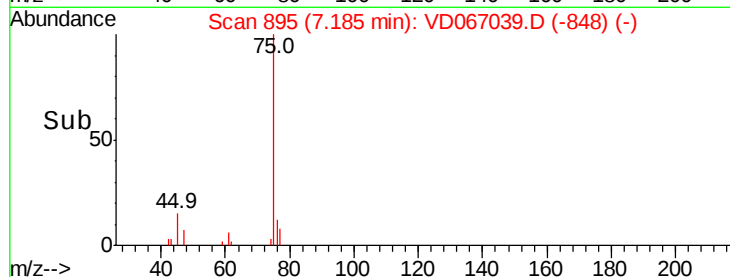
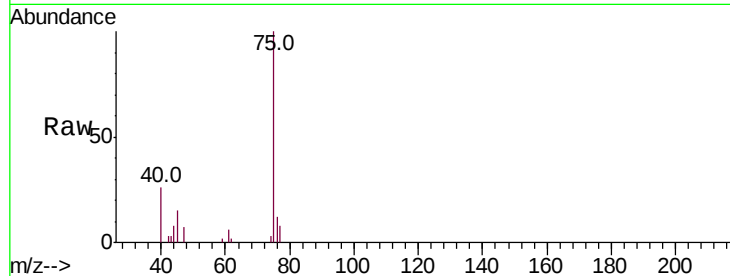




#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.19 min Scan# 895
Delta R.T. -0.02 min
Lab File: VD067039.D
Acq: 02 Oct 2020 16:53

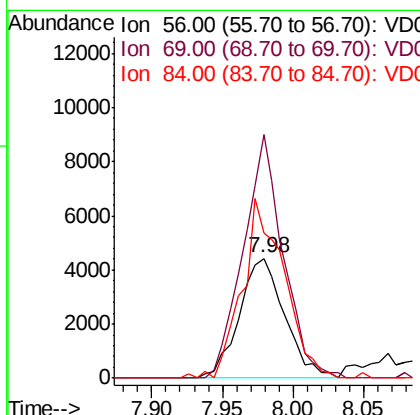
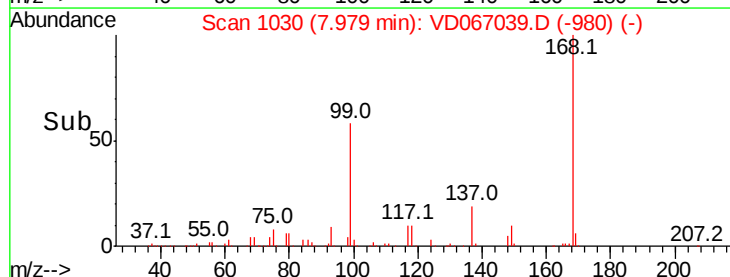
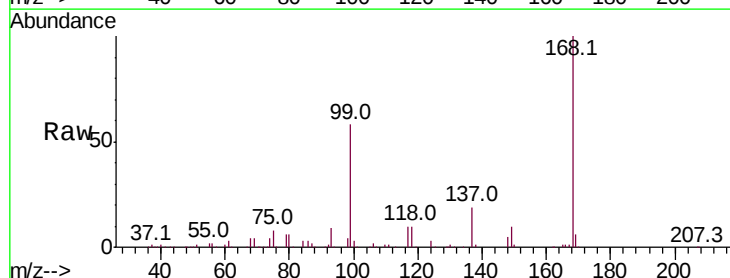
Instrument :
MSVOA_D
ClientSampled :
DUP-3

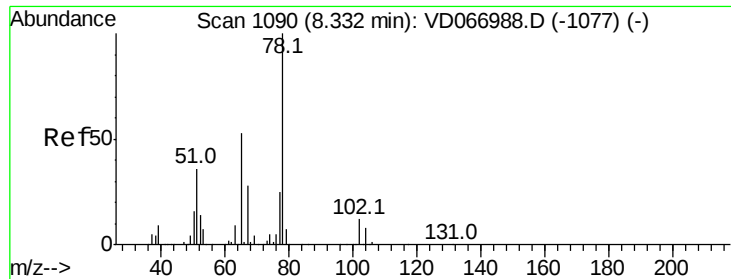
Tot Ion: 77 Resp: 523
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#31
Cyclohexane
Concen: 1.454 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067039.D
Acq: 02 Oct 2020 16:53

Tgt Ion: 56 Resp: 9962
Ion Ratio Lower Upper
56 100
69 203.5 29.0 43.6#
84 121.6 74.2 111.2#

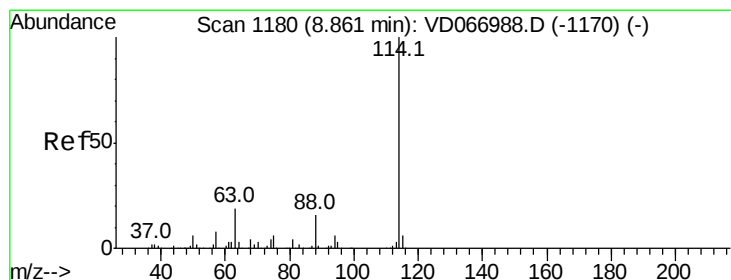
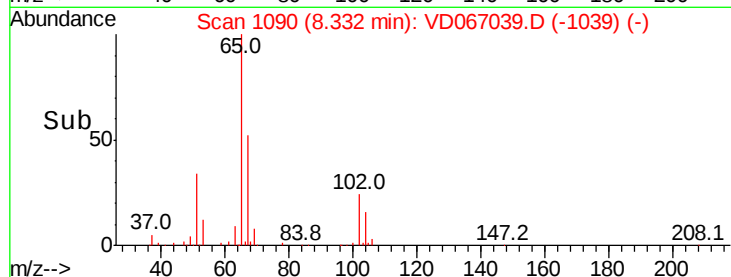
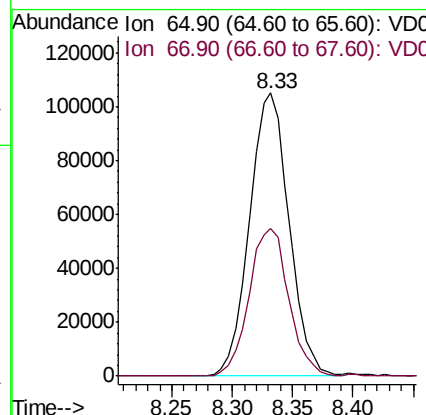
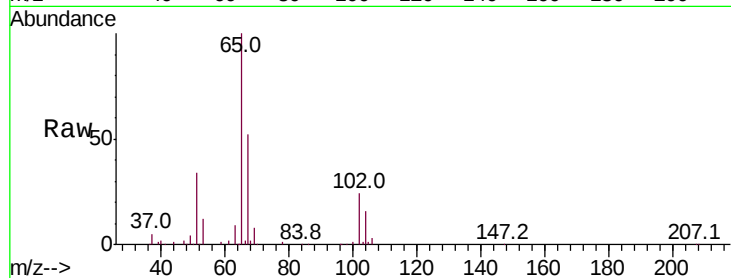




#33
 1,2-Dichloroethane-d4
 Concen: 52.642 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD067039.D
 Acq: 02 Oct 2020 16:53

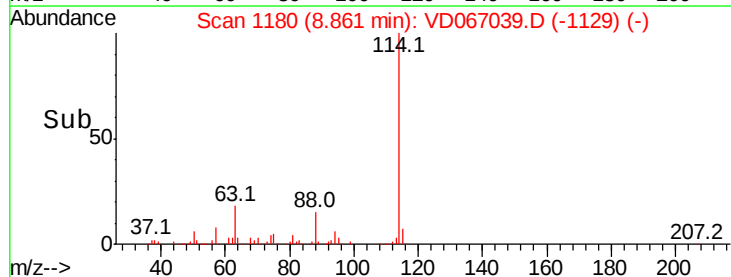
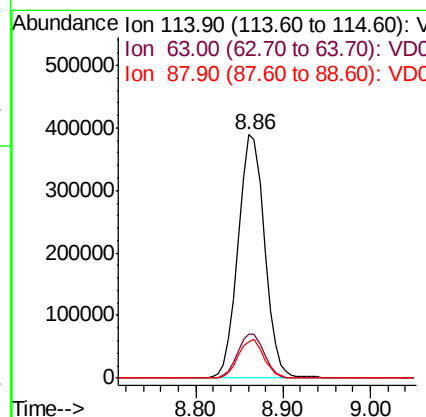
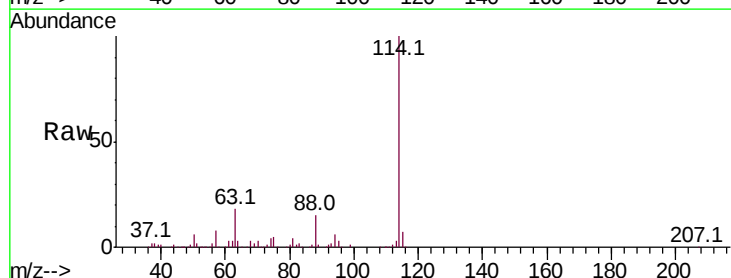
Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-3

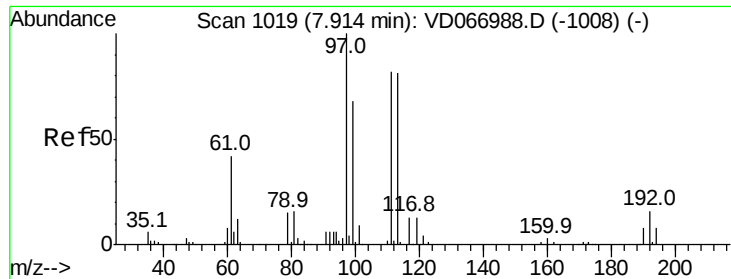
Tot Ion: 65 Resp: 240134
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD067039.D
 Acq: 02 Oct 2020 16:53

Tgt Ion: 114 Resp: 797801
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 38.4
 88 14.9 0.0 31.2

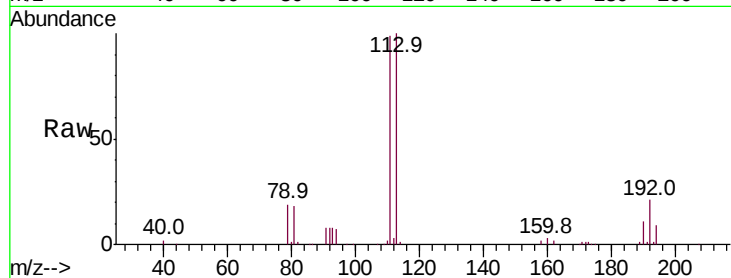




#35
Dibromofluoromethane
Concen: 49.380 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VD067039.D
Acq: 02 Oct 2020 16:53

Instrument :
MSVOA_D
ClientSampled :
DUP-3

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	83.0	124.4
192	19.8	15.5	23.3

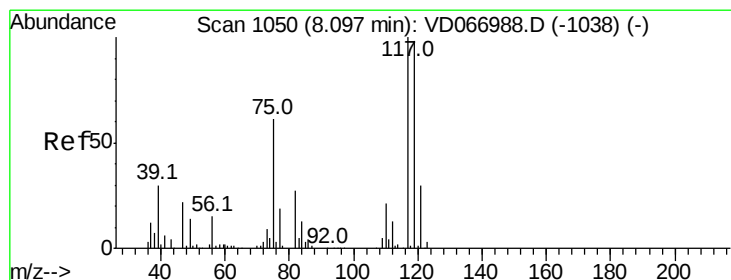
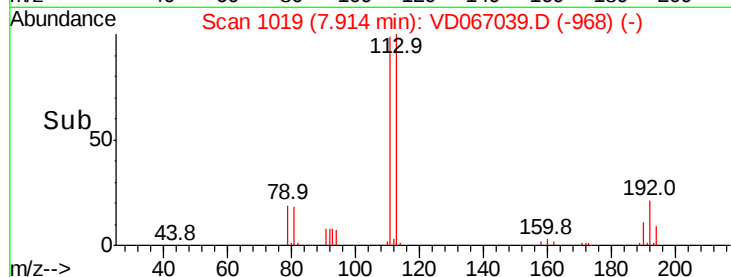
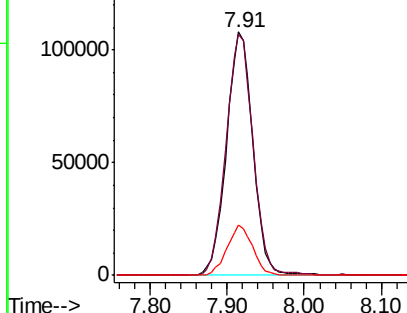


Abundance

Ion 112.80 (112.50 to 113.50): V

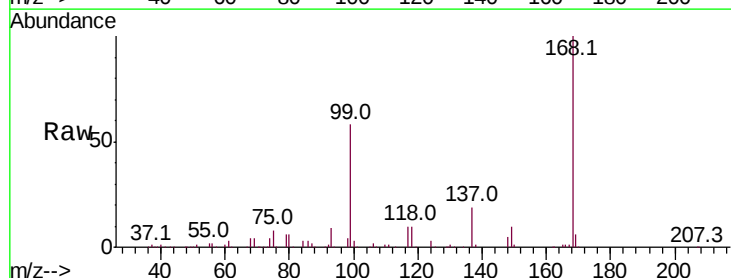
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#38
Carbon Tetrachloride
Concen: 5.688 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD067039.D
Acq: 02 Oct 2020 16:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	78.7	118.1#
121	0.0	24.2	36.2#

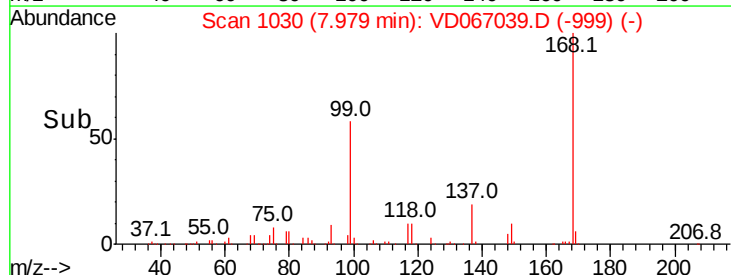
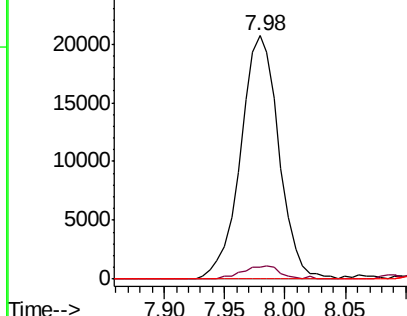


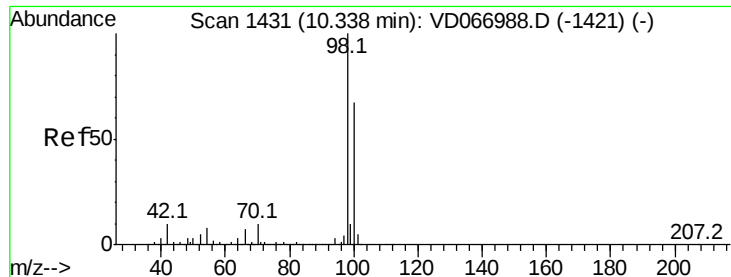
Abundance

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

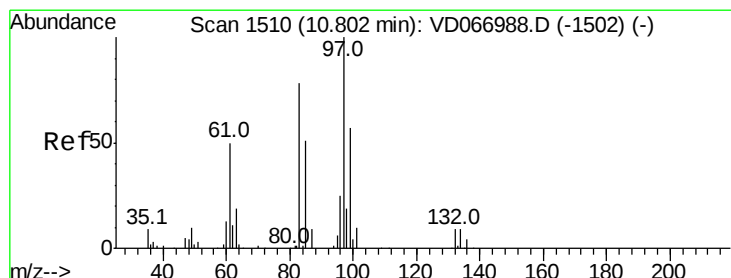
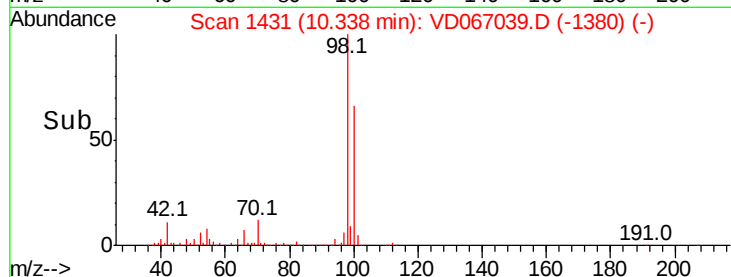
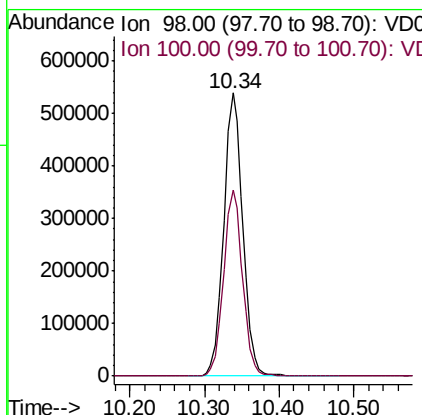
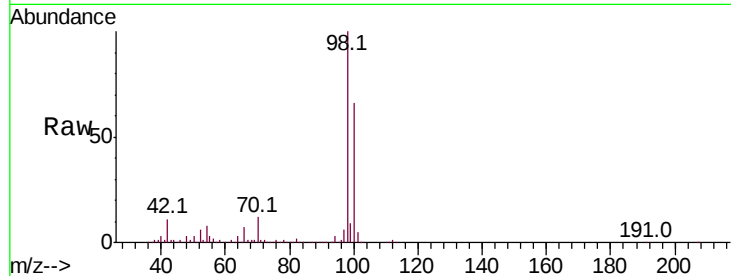




#50
Toluene-d8
Concen: 50.444 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD067039.D
Acq: 02 Oct 2020 16:53

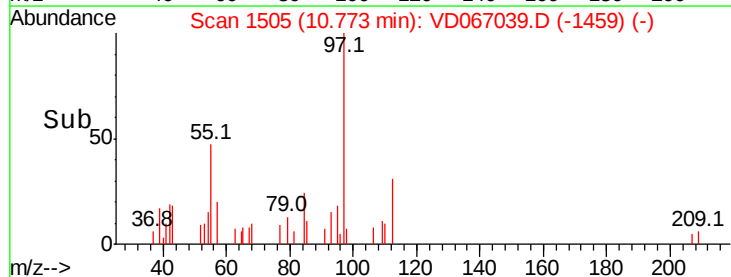
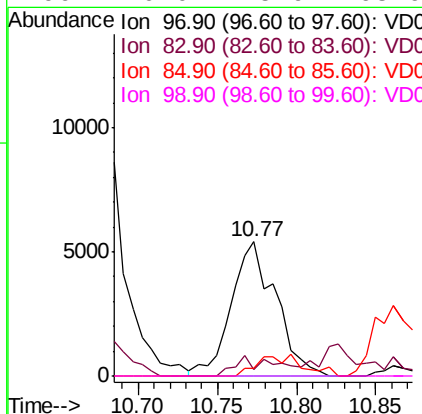
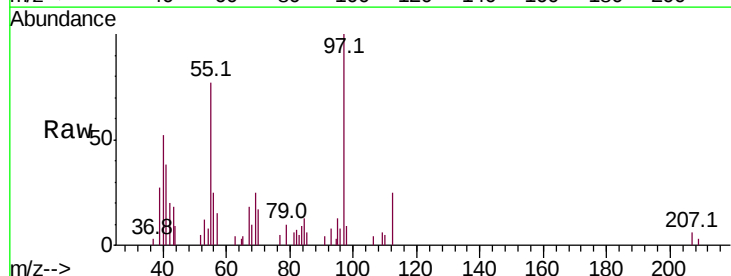
Instrument :
MSVOA_D
ClientSampleId :
DUP-3

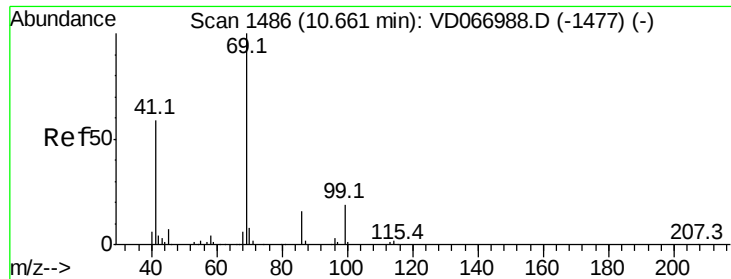
Tot Ion: 98 Resp: 960060
Ion Ratio Lower Upper
98 100
100 65.3 52.8 79.2



#55
1,1,2-Trichloroethane
Concen: 2.728 ug/l
RT: 10.77 min Scan# 1505
Delta R.T. -0.03 min
Lab File: VD067039.D
Acq: 02 Oct 2020 16:53

Tgt Ion: 97 Resp: 10580
Ion Ratio Lower Upper
97 100
83 4.9 62.4 93.6#
85 5.8 41.0 61.4#
99 0.0 45.9 68.9#





#56

Ethyl methacrylate

Concen: 1.027 ug/l

RT: 10.68 min Scan# 1489

Delta R.T. 0.02 min

Lab File: VD067039.D

Acq: 02 Oct 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

DUP-3

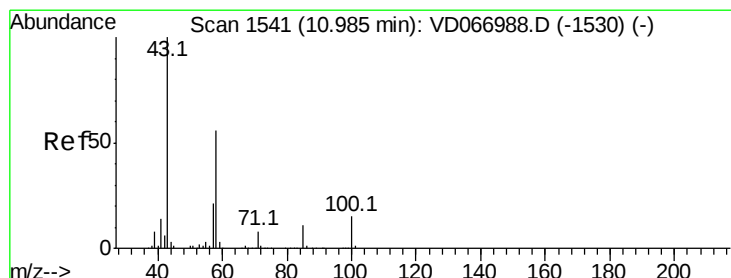
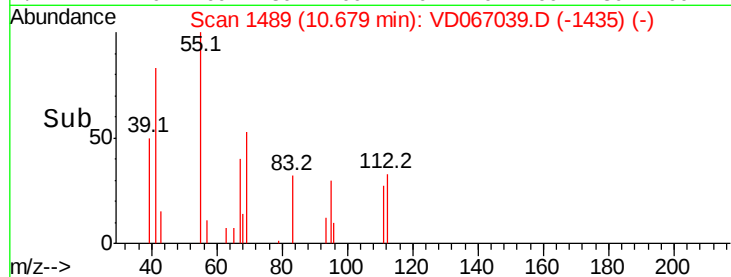
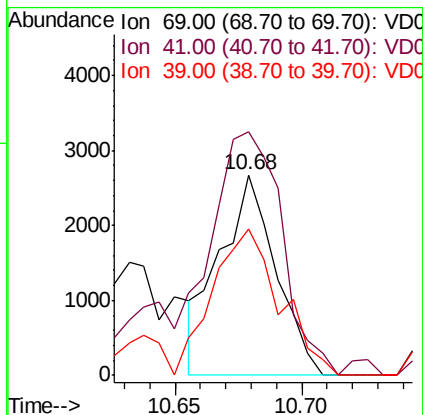
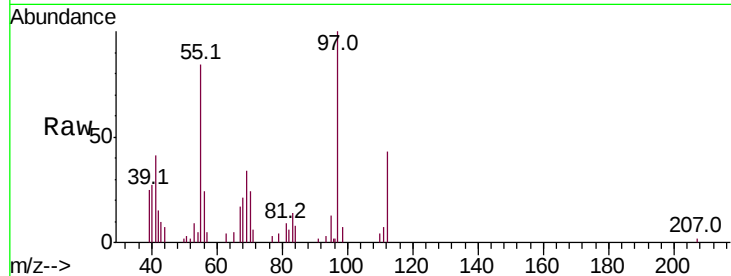
Tot Ion: 69 Resp: 4113

Ion Ratio Lower Upper

69 100

41 200.6 46.4 69.6#

39 88.4 23.8 35.6#



#59

2-Hexanone

Concen: 13.925 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.04 min

Lab File: VD067039.D

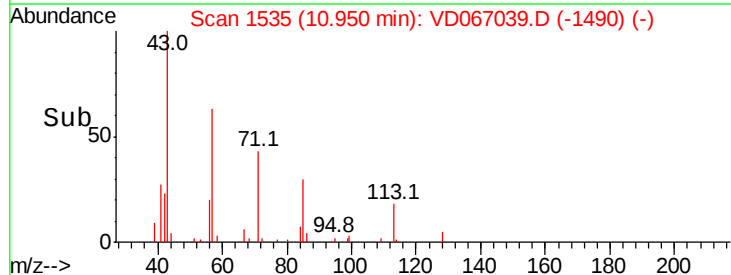
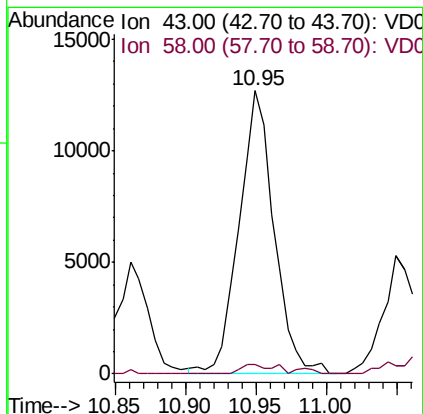
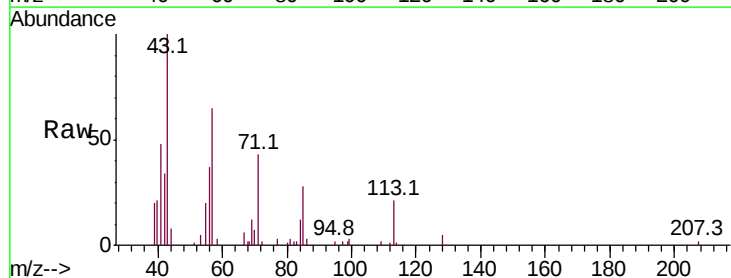
Acq: 02 Oct 2020 16:53

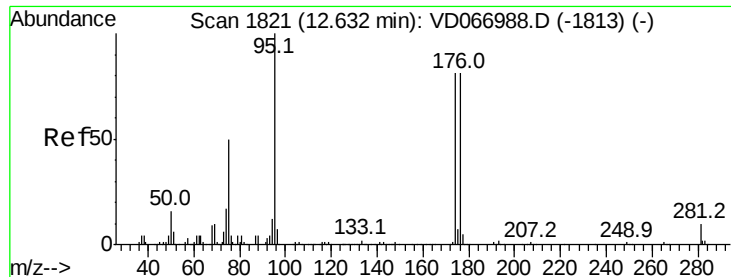
Tgt Ion: 43 Resp: 21971

Ion Ratio Lower Upper

43 100

58 3.2 28.3 84.9#

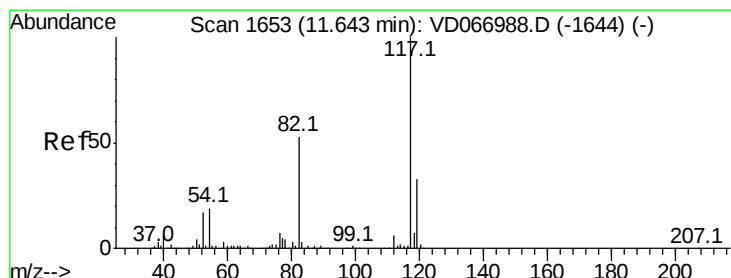
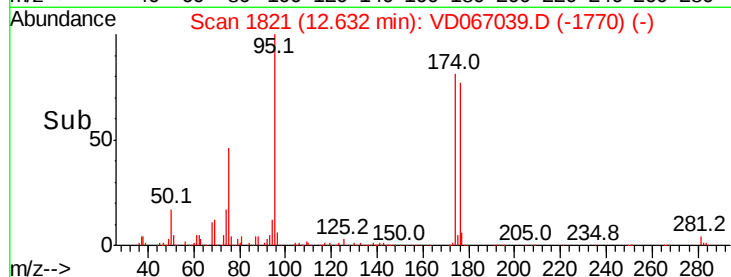
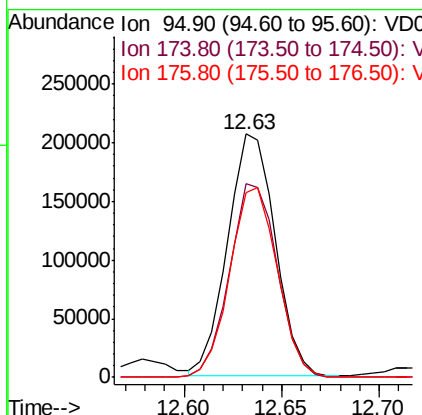
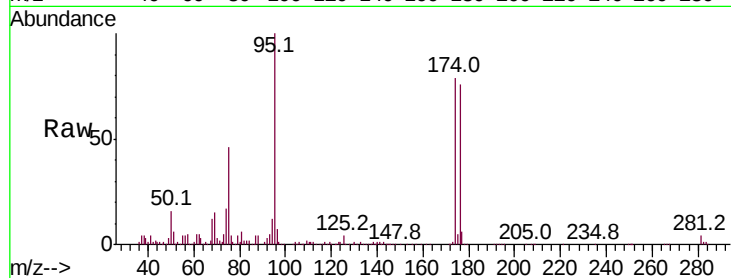




#62
4-Bromofluorobenzene
Concen: 54.110 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD067039.D
Acq: 02 Oct 2020 16:53

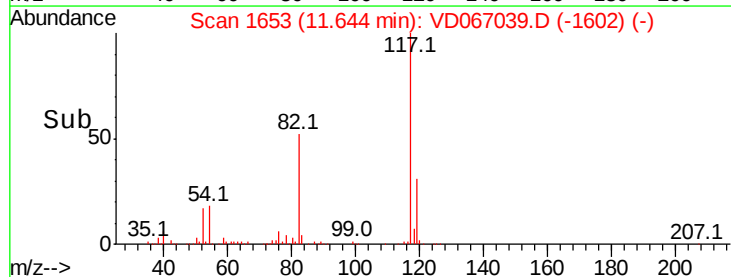
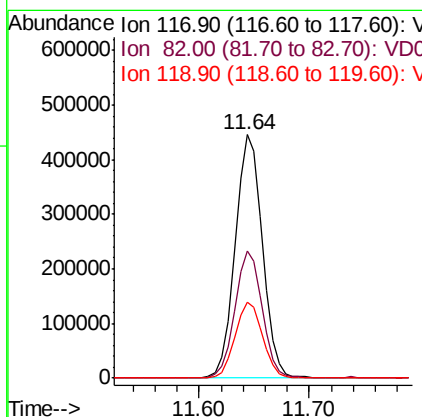
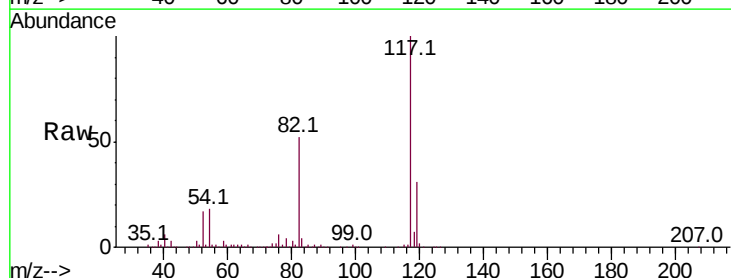
Instrument :
MSVOA_D
ClientSampled :
DUP-3

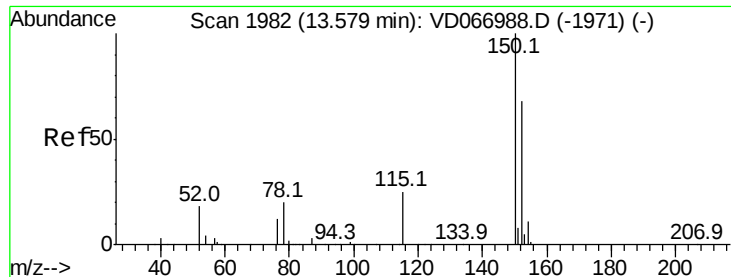
Tot Ion: 95 Resp: 349605
Ion Ratio Lower Upper
95 100
174 80.3 0.0 167.6
176 78.5 0.0 162.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067039.D
Acq: 02 Oct 2020 16:53

Tgt Ion: 117 Resp: 772045
Ion Ratio Lower Upper
117 100
82 51.9 42.6 63.8
119 31.3 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067039.D

Acq: 02 Oct 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

DUP-3

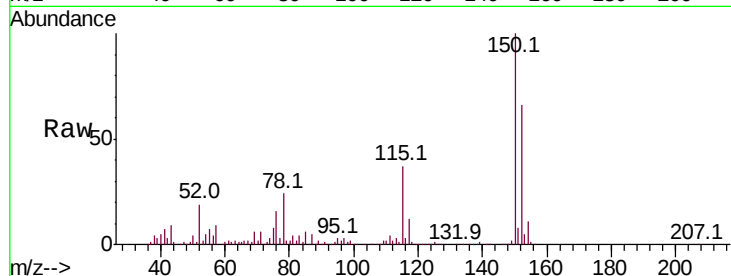
Tot Ion:152 Resp: 364037

Ion Ratio Lower Upper

152 100

115 57.6 29.6 88.8

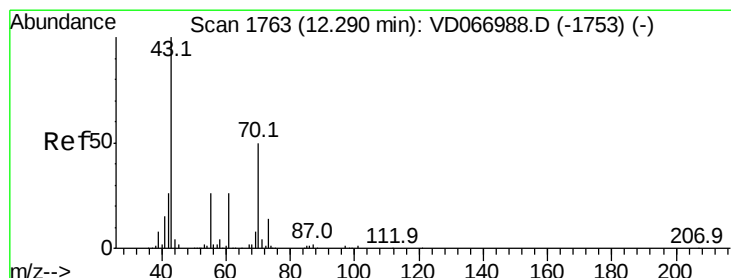
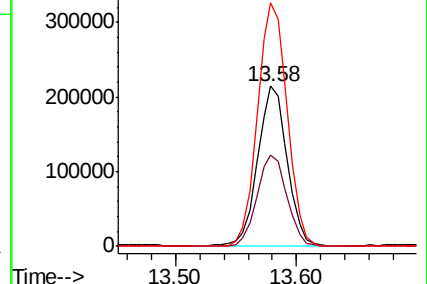
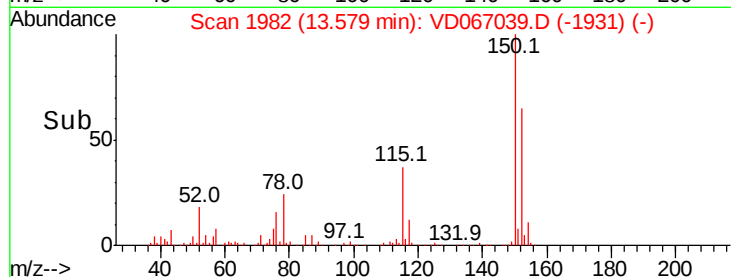
150 152.1 0.0 344.8



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



#74

N-ethyl acetate

Concen: 10.263 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

Lab File: VD067039.D

Acq: 02 Oct 2020 16:53

Tgt Ion: 43 Resp: 45604

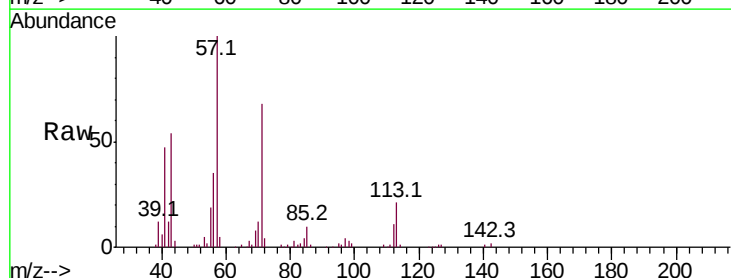
Ion Ratio Lower Upper

43 100

70 18.4 38.2 57.2#

55 0.0 22.4 33.6#

61 0.0 20.6 31.0#

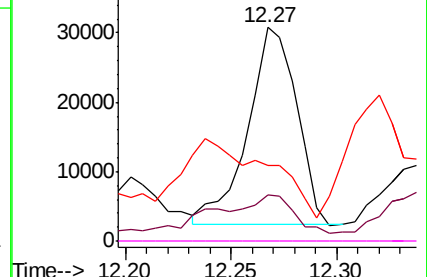
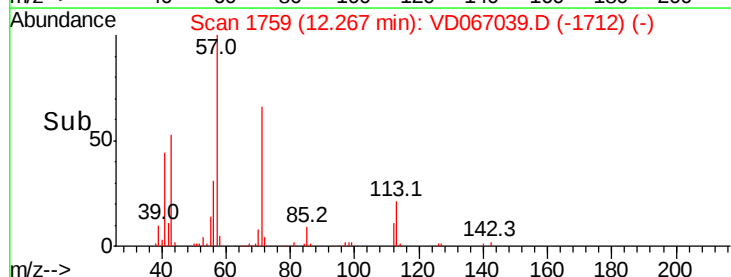


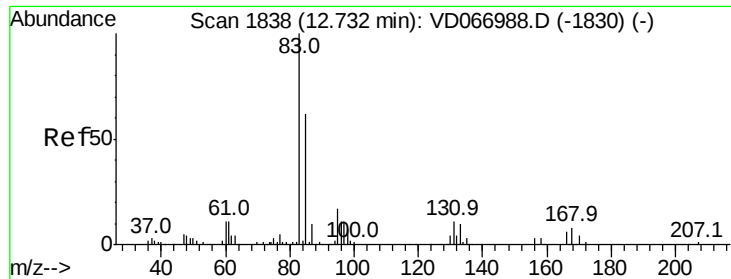
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 1.187 ug/l

RT: 12.71 min Scan# 1834

Delta R.T. -0.02 min

Lab File: VD067039.D

Acq: 02 Oct 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

DUP-3

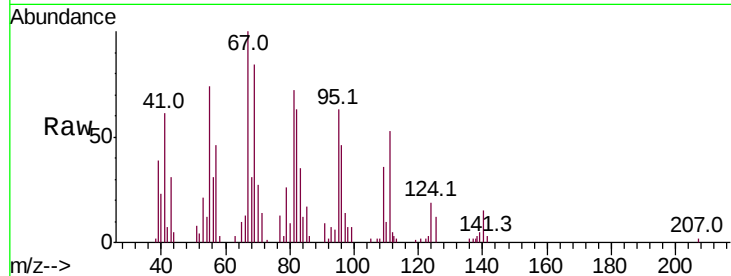
Tot Ion: 83 Resp: 4944

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

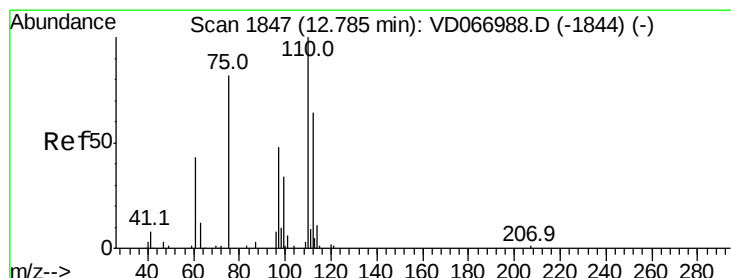
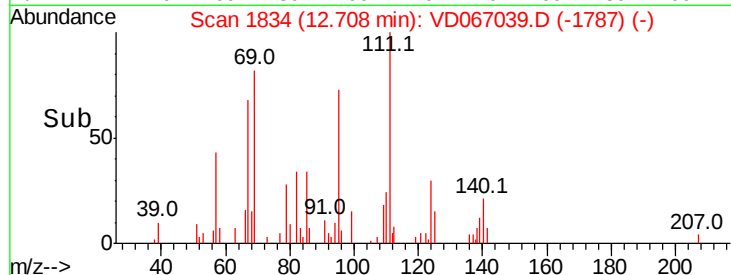
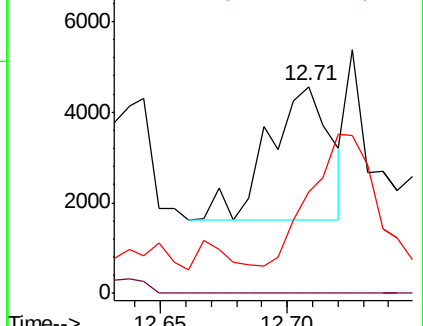
85 102.0 32.0 96.2#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 52.857 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067039.D

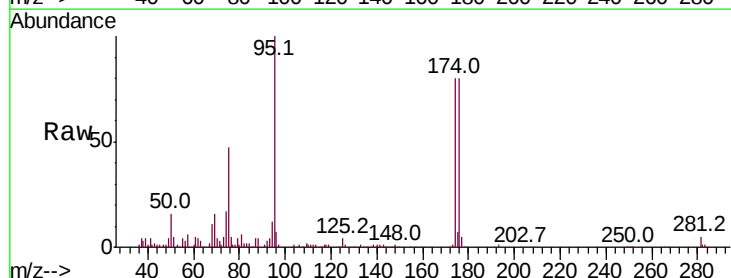
Acq: 02 Oct 2020 16:53

Tgt Ion: 75 Resp: 167604

Ion Ratio Lower Upper

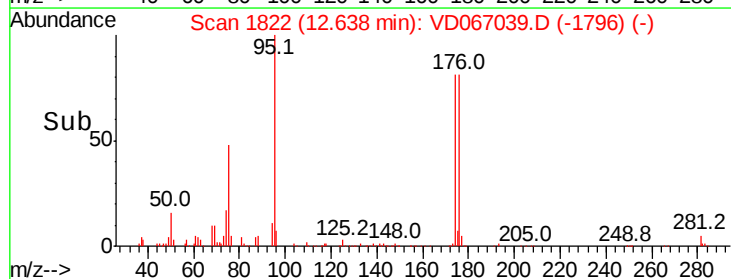
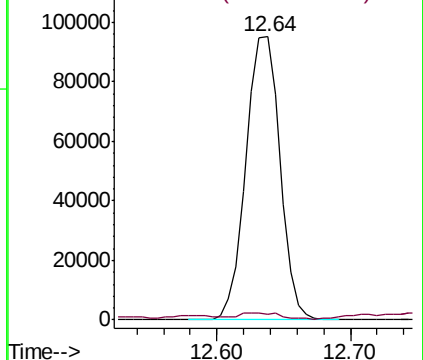
75 100

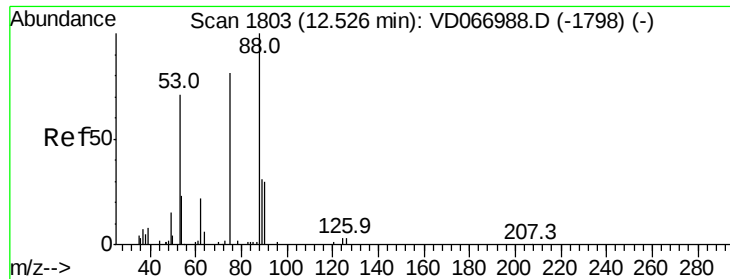
77 2.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 131.780 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067039.D

Acq: 02 Oct 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

DUP-3

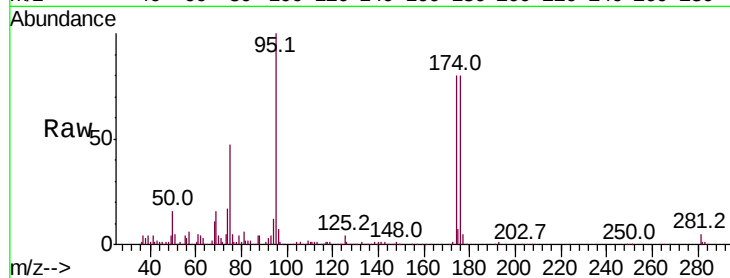
Tot Ion: 75 Resp: 167604

Ion Ratio Lower Upper

75 100

53 2.0 73.8 110.6#

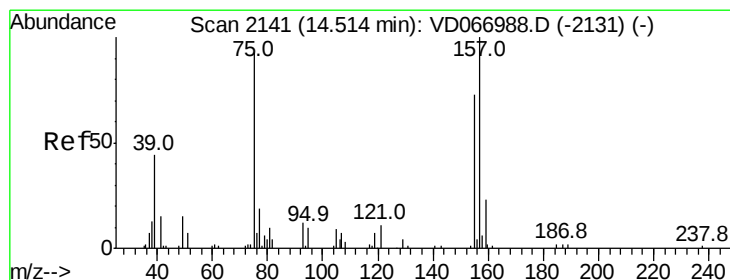
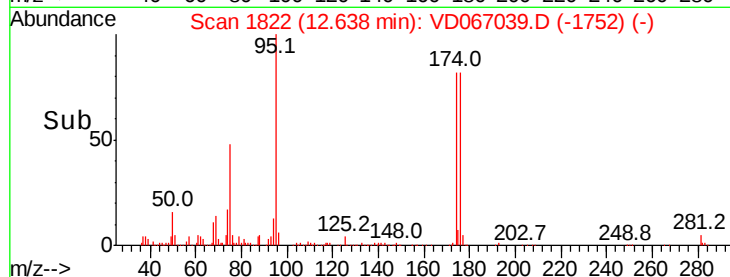
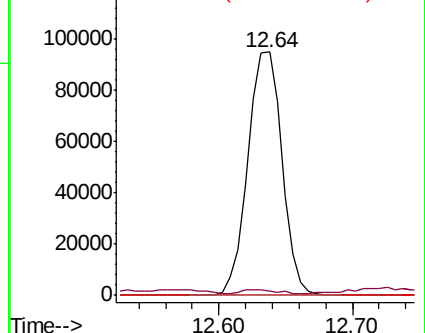
89 0.0 38.9 58.3#



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: 2.030 ug/l

RT: 14.53 min Scan# 2144

Delta R.T. 0.02 min

Lab File: VD067039.D

Acq: 02 Oct 2020 16:53

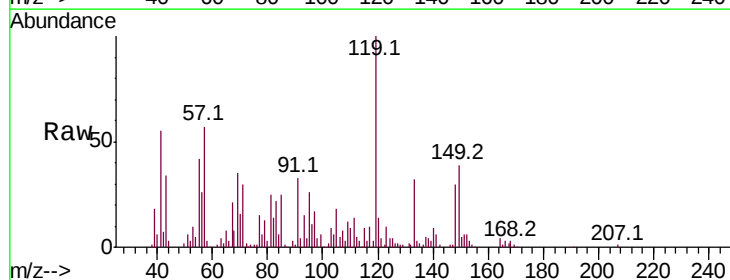
Tgt Ion: 75 Resp: 1363

Ion Ratio Lower Upper

75 100

155 32.3 45.2 135.6#

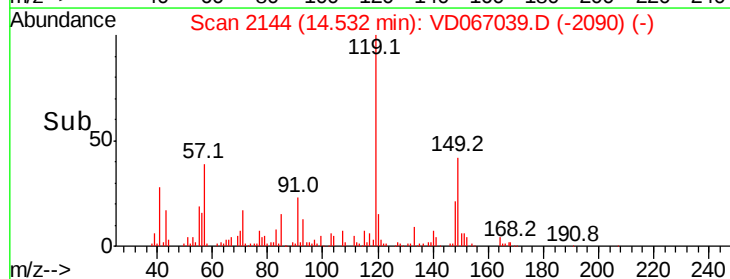
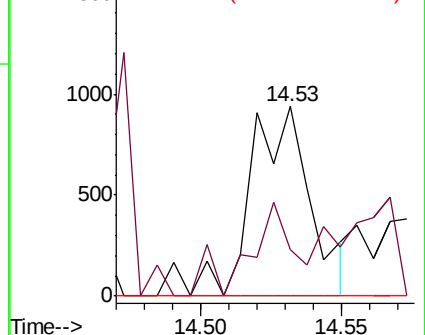
157 0.0 56.3 168.8#

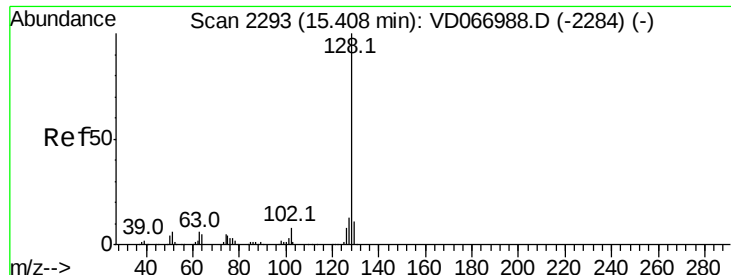


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 1.053 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD067039.D

Acq: 02 Oct 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

DUP-3

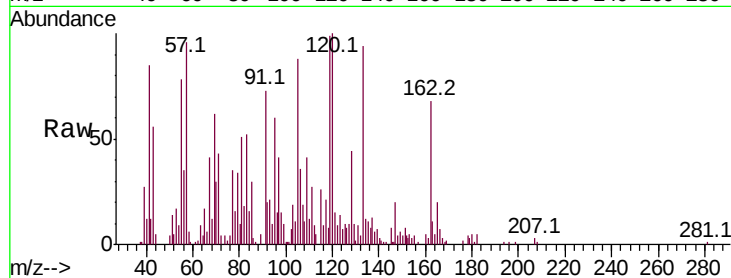
Tot Ion:128 Resp: 11536

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



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

