

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100920\
 Data File : VD067215.D
 Acq On : 09 Oct 2020 16:50
 Operator : VA/SY
 Sample : L4316-01
 Misc : 5.10G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 11929

Quant Time: Oct 09 23:47:32 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	474679	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	777058	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	722169	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	358737	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	207974	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
35) Dibromofluoromethane	7.92	113	225784	44.38	ug/l	0.00
Spiked Amount			Recovery	=	88.76%	
50) Toluene-d8	10.34	98	915885	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
62) 4-Bromofluorobenzene	12.64	95	329067	52.29	ug/l	0.00
Spiked Amount			Recovery	=	104.58%	

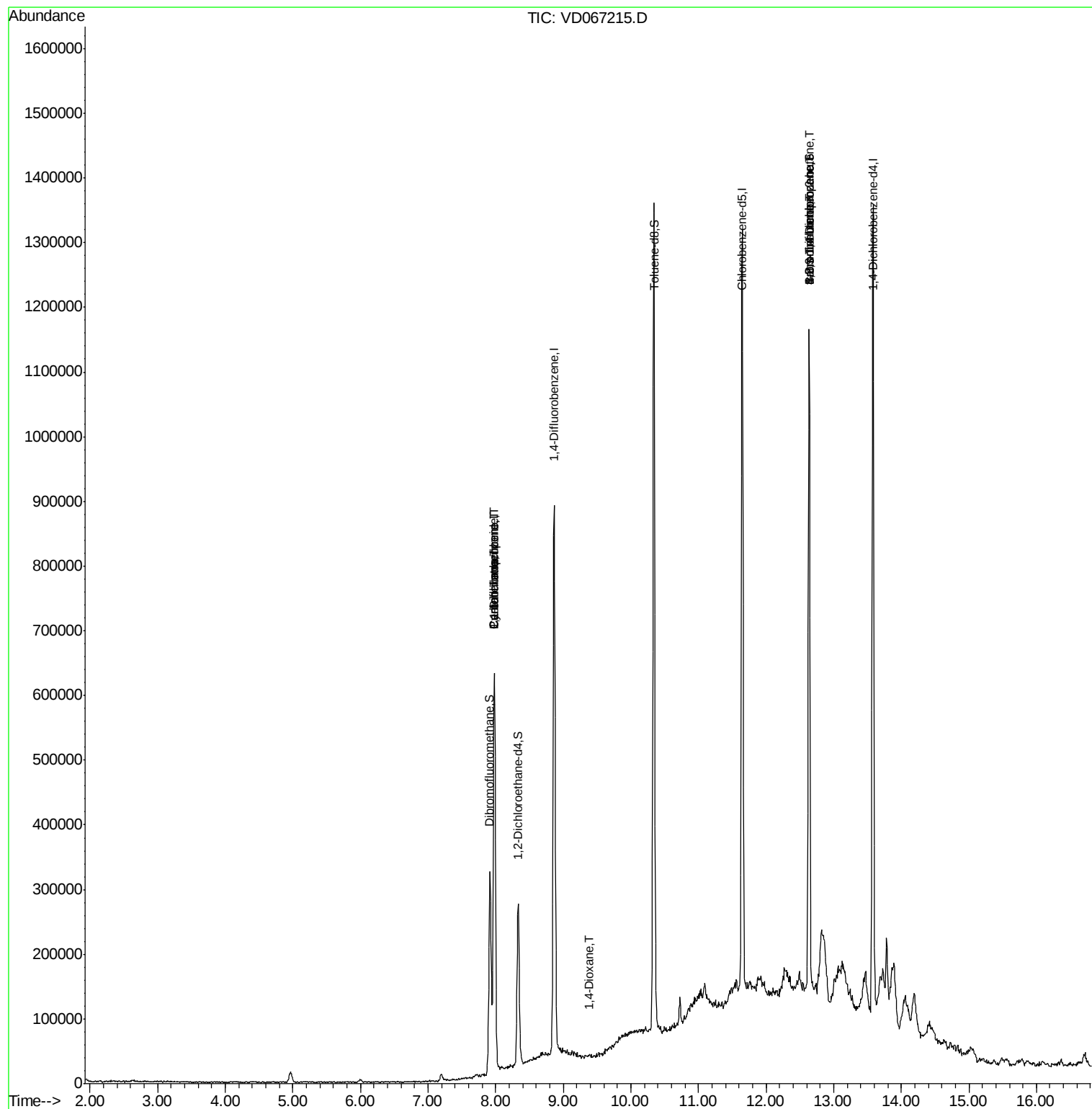
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	223	Below Cal	#	40
5) Bromomethane	2.80	94	299	Below Cal	#	3
11) Tert butyl alcohol	5.17	59	765	Below Cal	#	72
20) Methylene Chloride	4.97	84	13005	Below Cal	#	87
26) 2,2-Dichloropropane	7.18	77	506	Below Cal	#	65
31) Cyclohexane	7.98	56	9955	1.450	ug/l #	7
36) 1,1-Dichloropropene	7.98	75	33370	4.607	ug/l #	53
38) Carbon Tetrachloride	7.98	117	49419	6.306	ug/l #	16
49) 1,4-Dioxane	9.38	88	63	2.222	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	165639	53.009	ug/l #	100
77) Bromobenzene	12.64	156	15145	2.575	ug/l #	2
81) trans-1,4-Dichloro-2-buten	12.64	75	165639	132.159	ug/l #	14

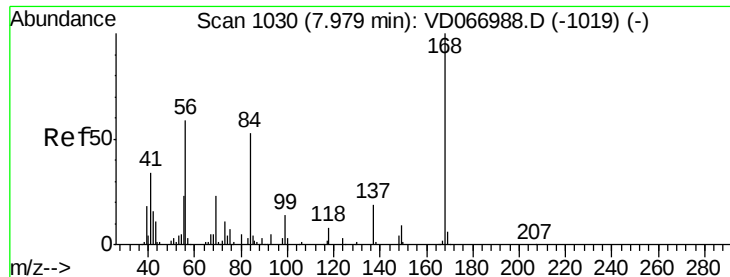
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD067215.D

Acq: 09 Oct 2020 16:50

Instrument :

MSVOA_D

ClientSampleId :

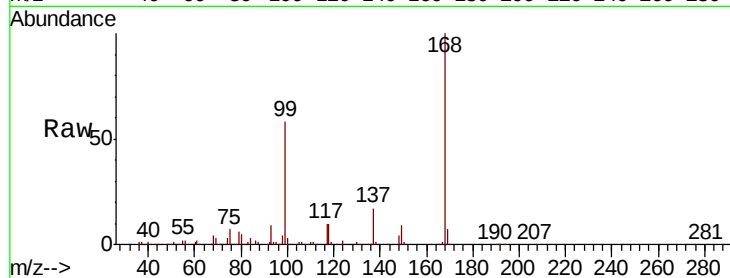
11929

Tot Ion:168 Resp: 474679

Ion Ratio Lower Upper

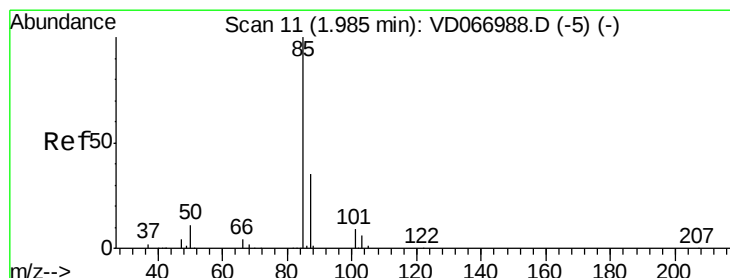
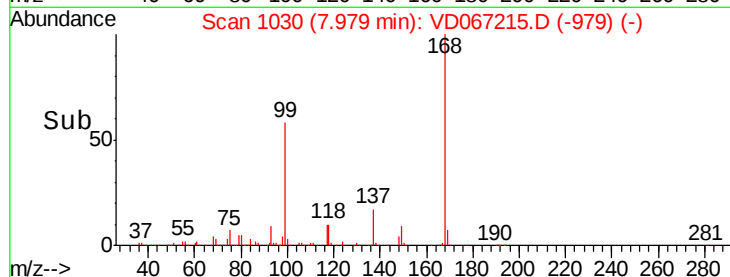
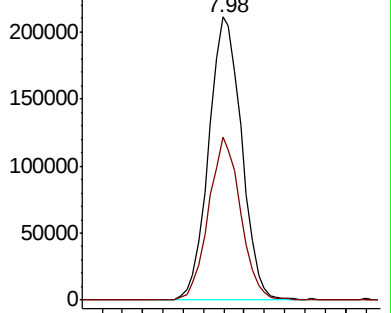
168 100

99 57.6 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: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD067215.D

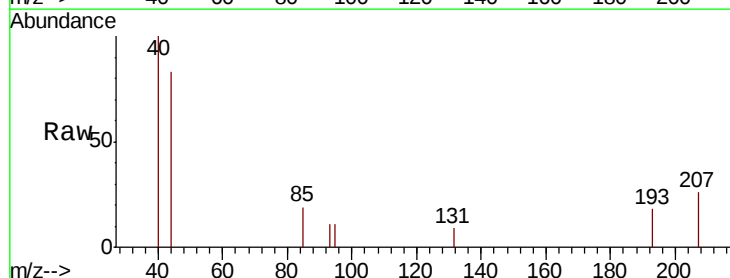
Acq: 09 Oct 2020 16:50

Tgt Ion: 85 Resp: 223

Ion Ratio Lower Upper

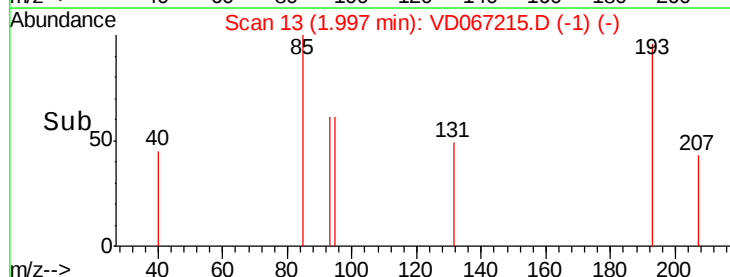
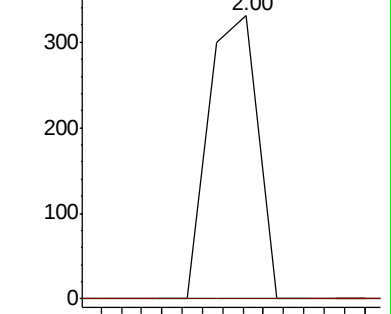
85 100

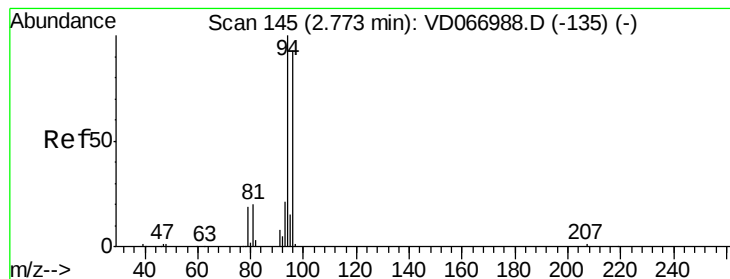
87 0.0 17.3 52.0#



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: 2.80 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD067215.D

Acq: 09 Oct 2020 16:50

Instrument :

MSVOA_D

ClientSampleId :

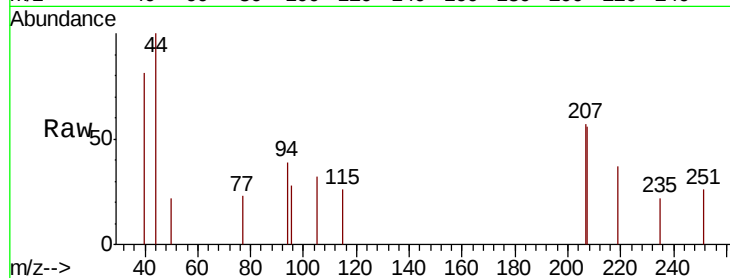
11929

Tot Ion: 94 Resp: 299

Ion Ratio Lower Upper

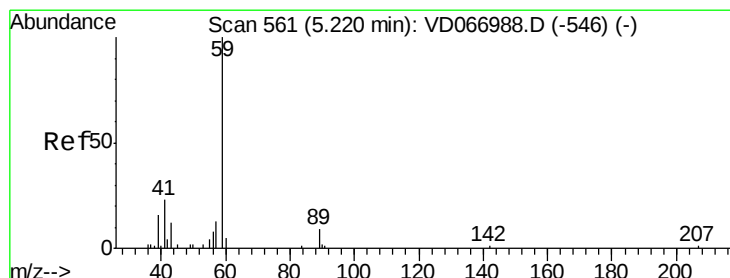
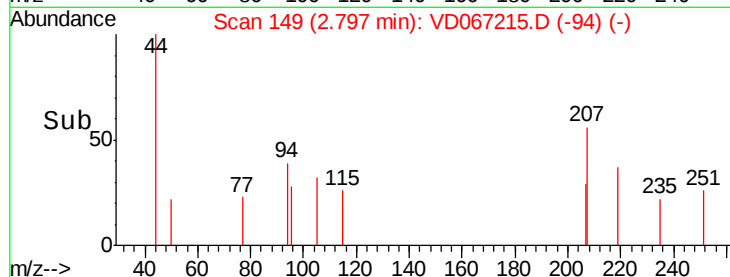
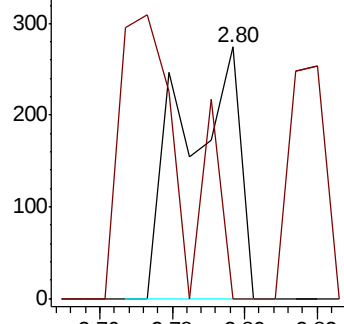
94 100

96 0.0 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: 5.17 min Scan# 553

Delta R.T. -0.05 min

Lab File: VD067215.D

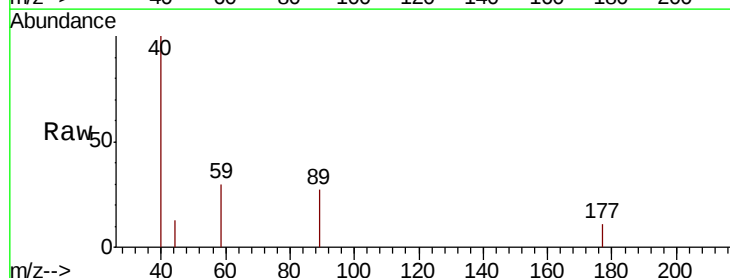
Acq: 09 Oct 2020 16:50

Tgt Ion: 59 Resp: 765

Ion Ratio Lower Upper

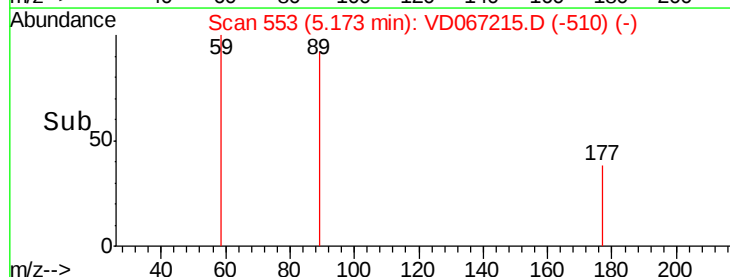
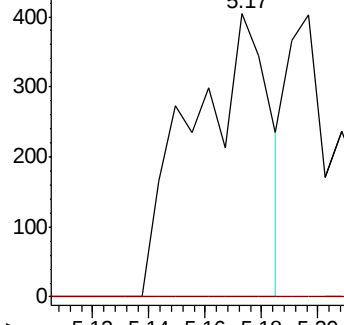
59 100

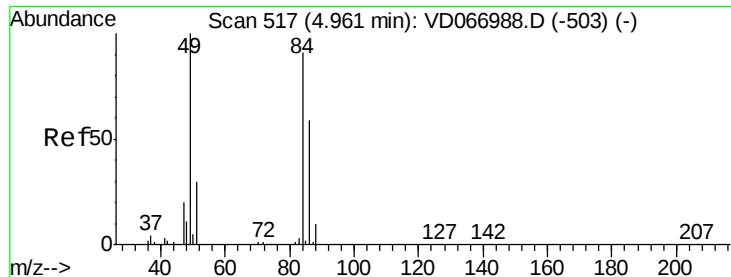
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067215.D

Acq: 09 Oct 2020 16:50

Instrument :

MSVOA_D

ClientSampleId :

11929

Tot Ion: 84 Resp: 13005

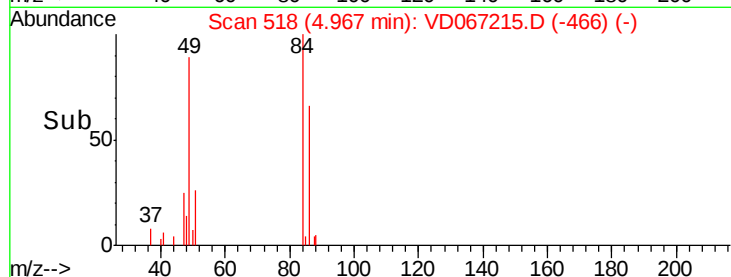
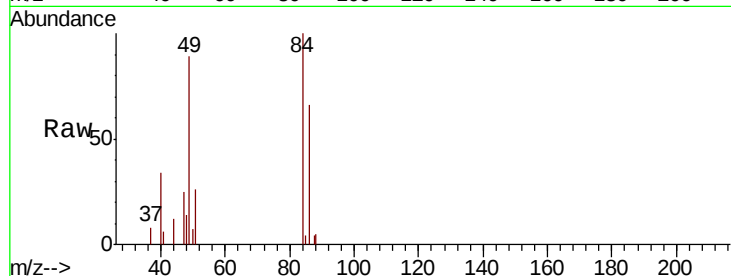
Ion Ratio Lower Upper

84 100

49 89.5 88.2 132.2

51 25.9 26.6 39.8#

86 65.6 52.1 78.1

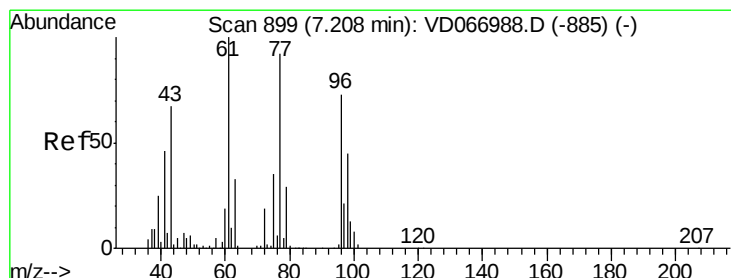
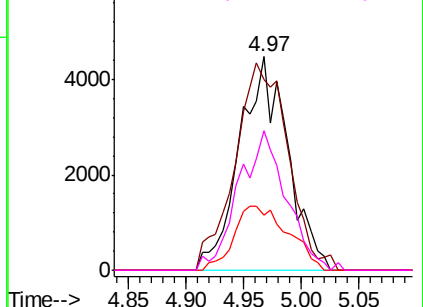


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.18 min Scan# 894

Delta R.T. -0.03 min

Lab File: VD067215.D

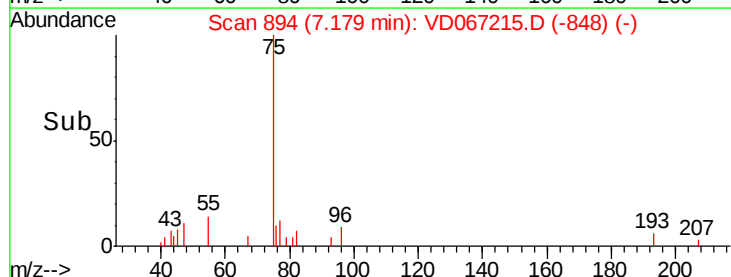
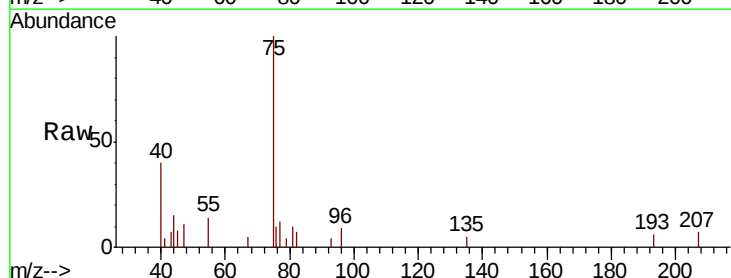
Acq: 09 Oct 2020 16:50

Tgt Ion: 77 Resp: 506

Ion Ratio Lower Upper

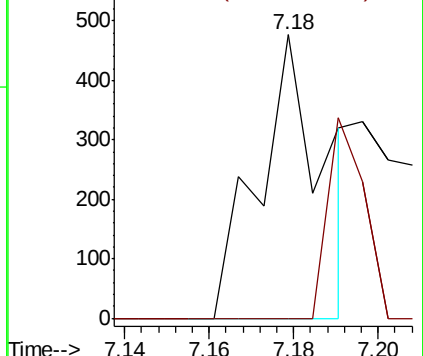
77 100

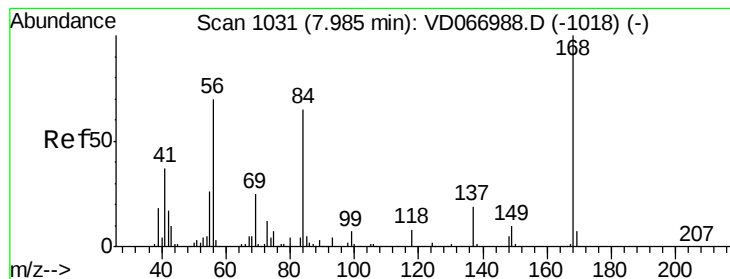
97 39.5 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#31

Cyclohexane

Concen: 1.450 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD067215.D

Acq: 09 Oct 2020 16:50

Instrument :

MSVOA_D

ClientSampled :

11929

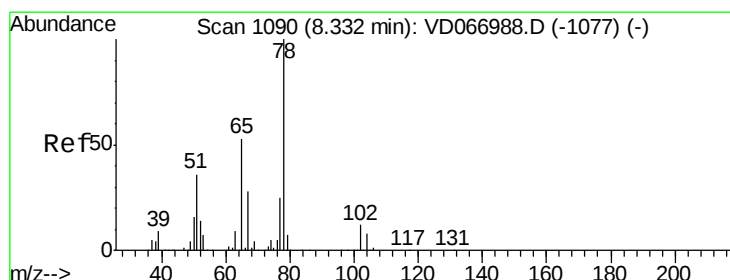
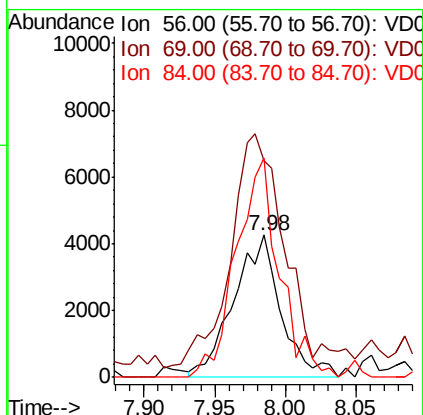
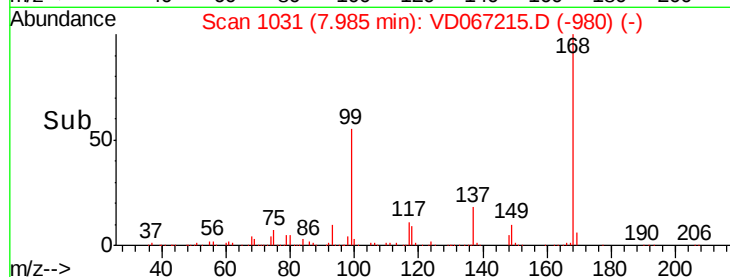
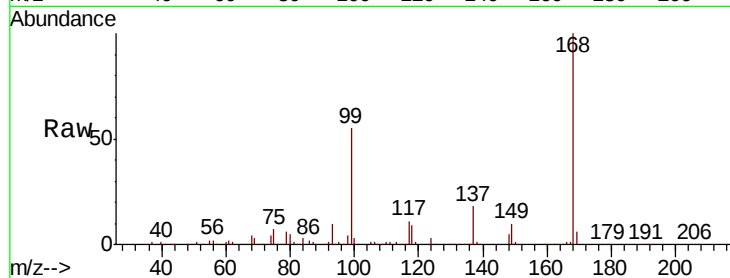
Tot Ion: 56 Resp: 9955

Ion Ratio Lower Upper

56 100

69 134.4 29.0 43.6#

84 154.1 74.2 111.2#



#33

1,2-Dichloroethane-d4

Concen: 45.488 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD067215.D

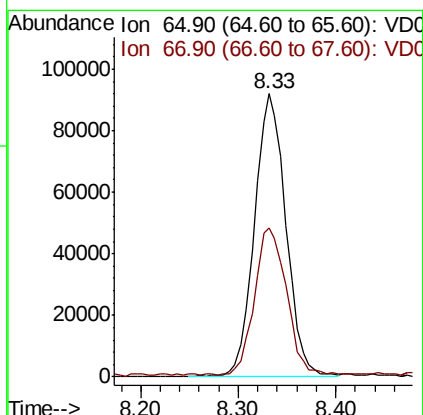
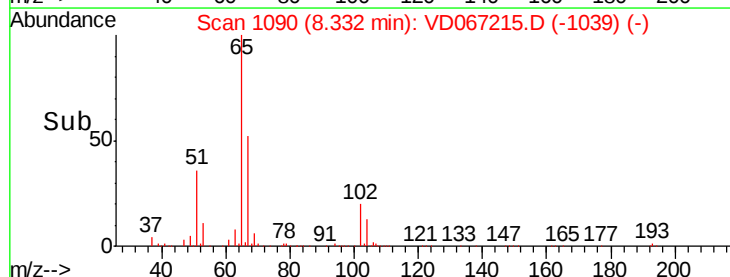
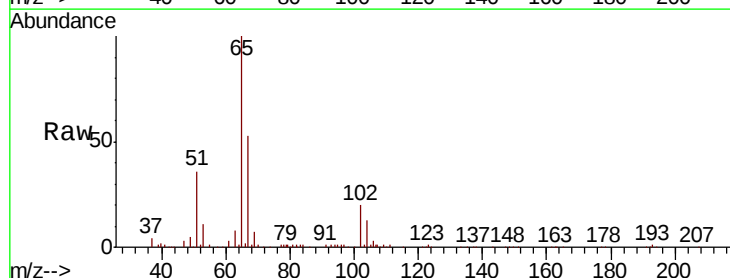
Acq: 09 Oct 2020 16:50

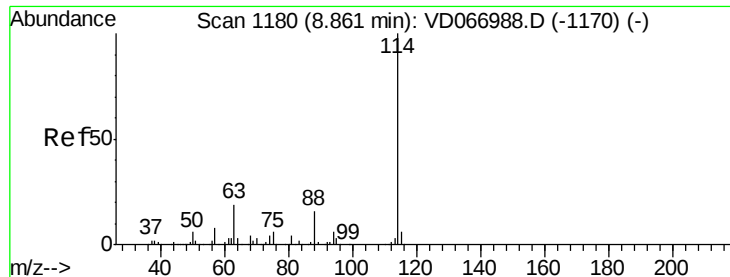
Tgt Ion: 65 Resp: 207974

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.8

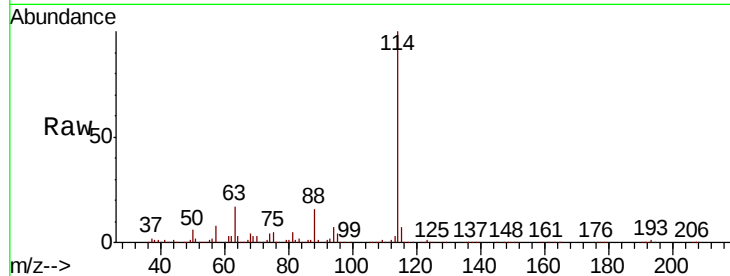




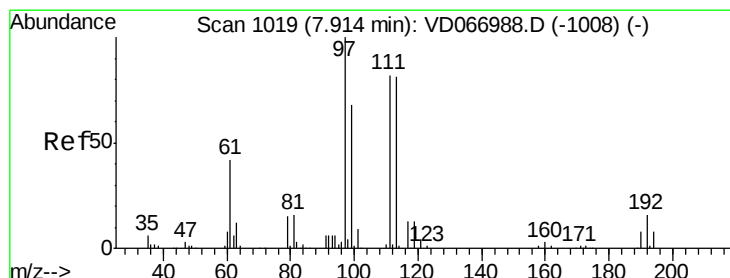
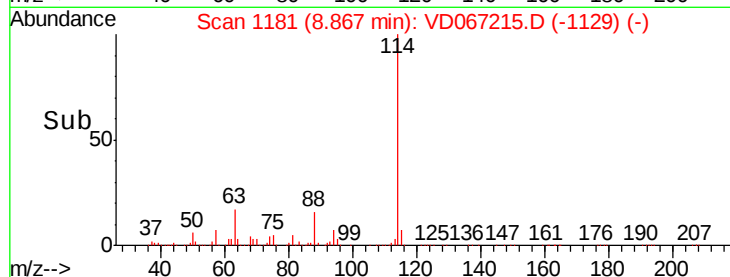
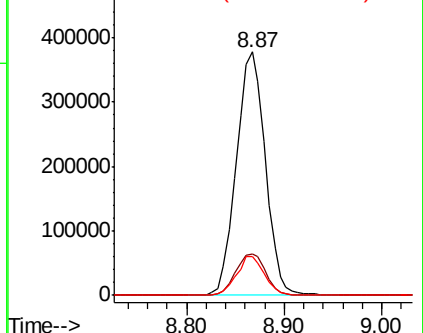
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD067215.D
Acq: 09 Oct 2020 16:50

Instrument :
MSVOA_D
ClientSampleId :
11929

Tot Ion:114 Resp: 777058
Ion Ratio Lower Upper
114 100
63 17.1 0.0 38.4
88 15.8 0.0 31.2

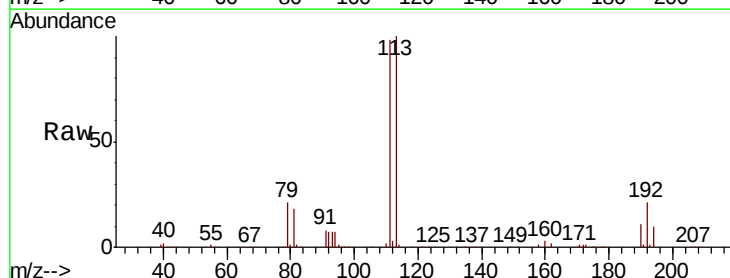


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VDC
Ion 87.90 (87.60 to 88.60): VDC

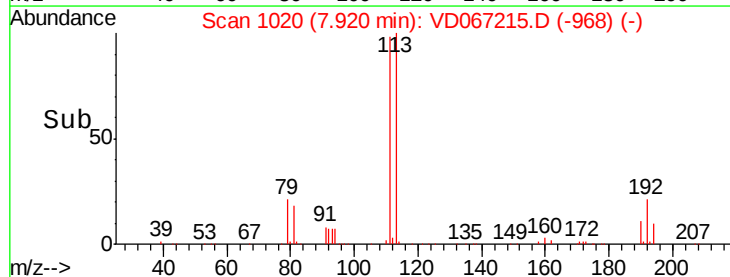
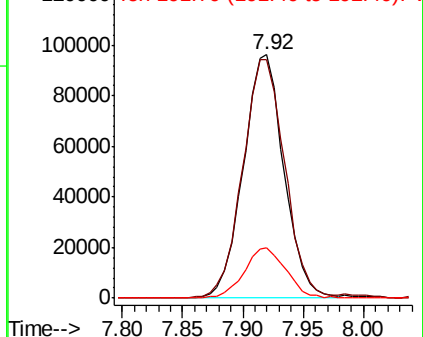


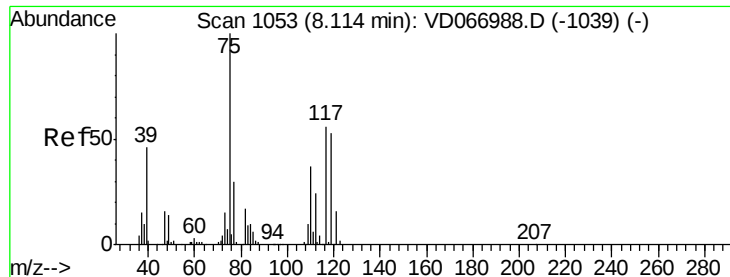
#35
Dibromofluoromethane
Concen: 44.382 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD067215.D
Acq: 09 Oct 2020 16:50

Tgt Ion:113 Resp: 225784
Ion Ratio Lower Upper
113 100
111 101.9 83.0 124.4
192 21.1 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





#36

1,1-Dichloropropene

Concen: 4.607 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067215.D

Acq: 09 Oct 2020 16:50

Instrument :

MSVOA_D

ClientSampleId :

11929

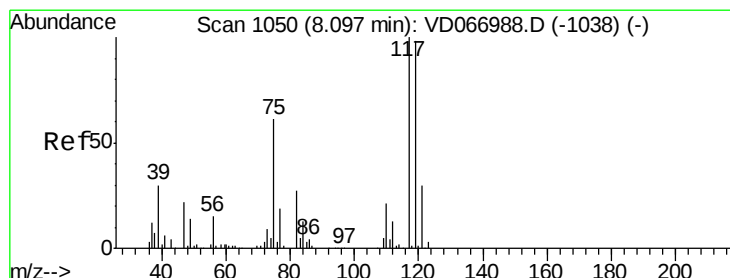
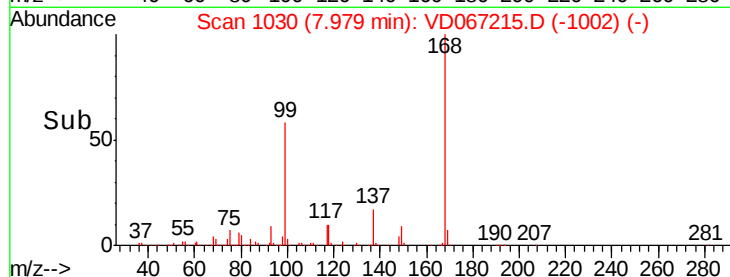
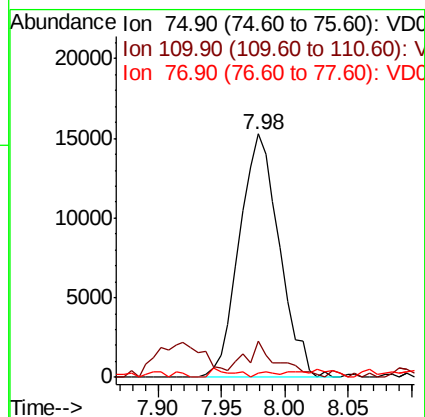
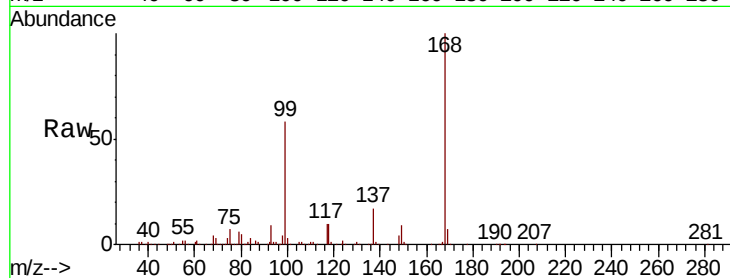
Tot Ion: 75 Resp: 33370

Ion Ratio Lower Upper

75 100

110 12.0 18.4 55.0#

77 1.2 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.306 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067215.D

Acq: 09 Oct 2020 16:50

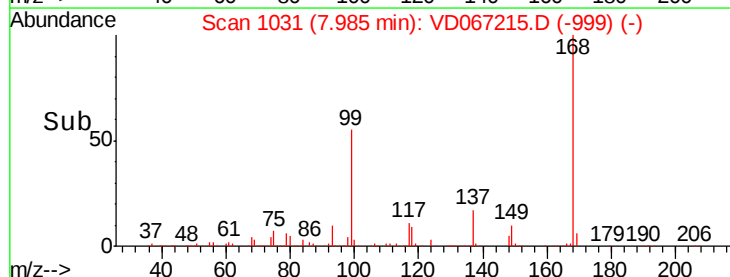
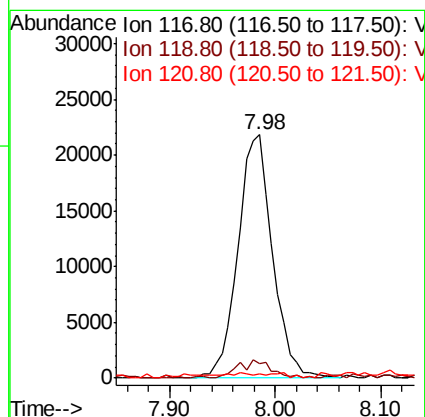
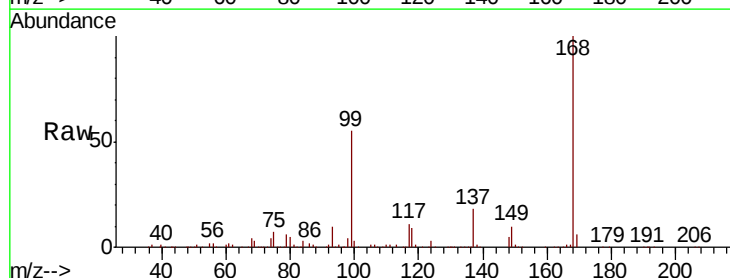
Tgt Ion: 117 Resp: 49419

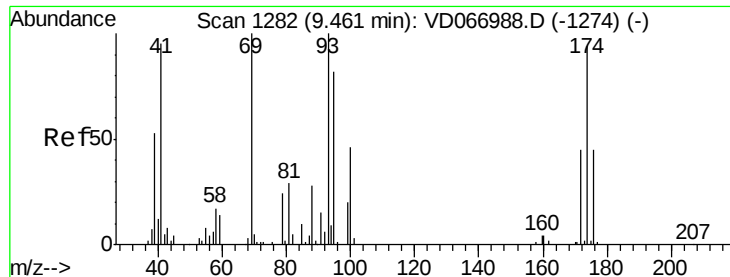
Ion Ratio Lower Upper

117 100

119 5.7 78.7 118.1#

121 0.7 24.2 36.2#





#49

1,4-Dioxane

Concen: 2.222 ug/l

RT: 9.38 min Scan# 1268

Delta R.T. -0.08 min

Lab File: VD067215.D

Acq: 09 Oct 2020 16:50

Instrument :

MSVOA_D

ClientSampleId :

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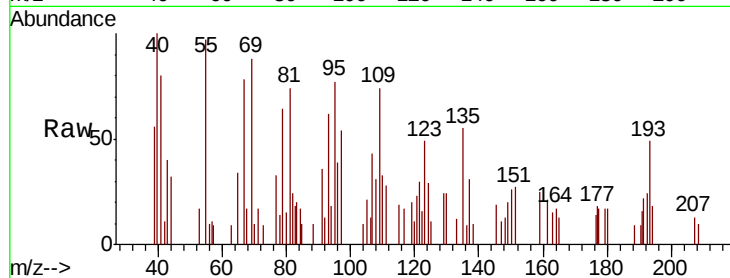
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 909.5 25.6 38.4#

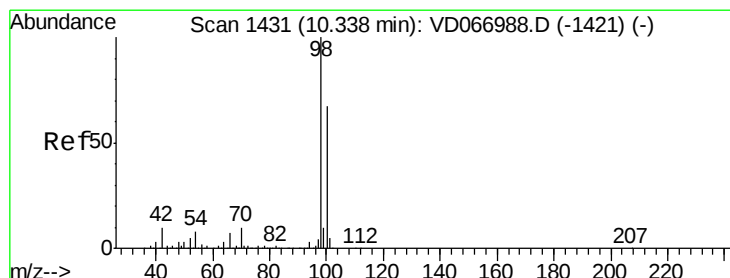
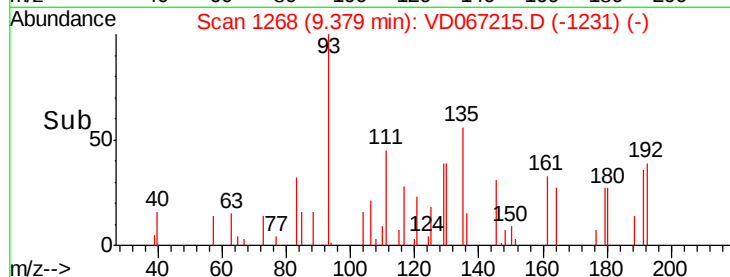
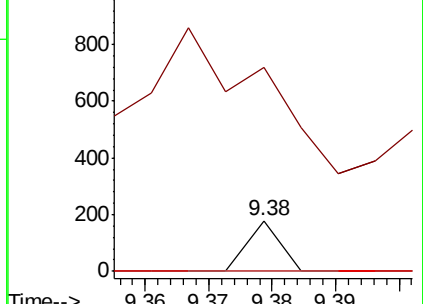
58 0.0 53.5 80.3#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 49.408 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD067215.D

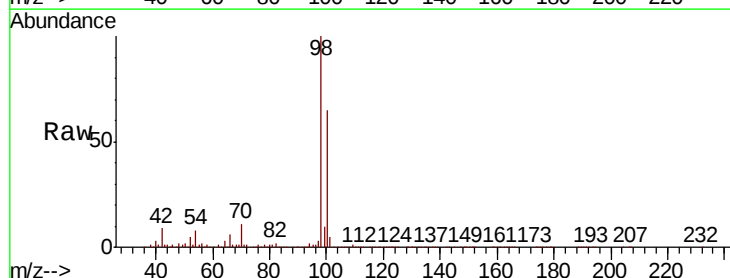
Acq: 09 Oct 2020 16:50

Tgt Ion: 98 Resp: 915885

Ion Ratio Lower Upper

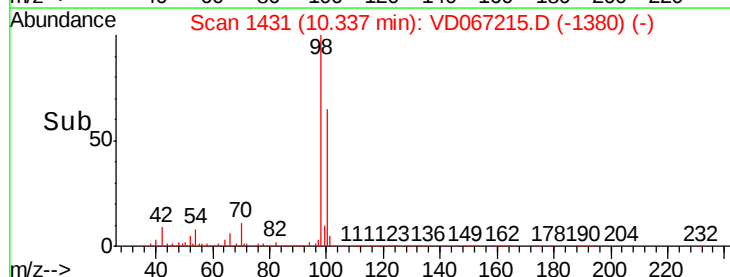
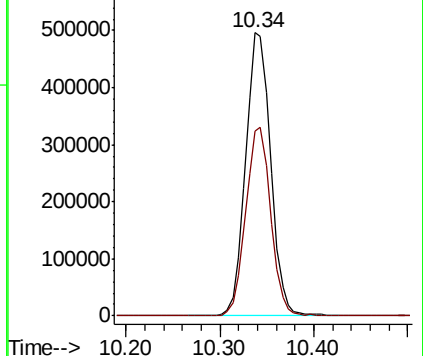
98 100

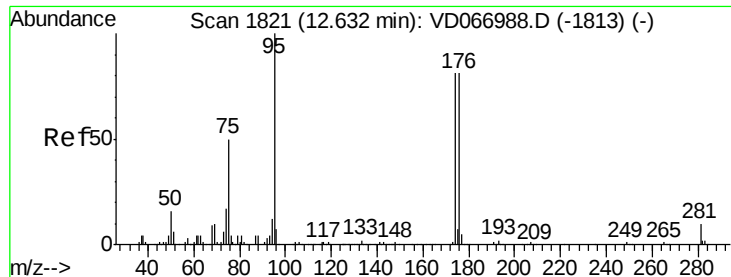
100 66.4 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

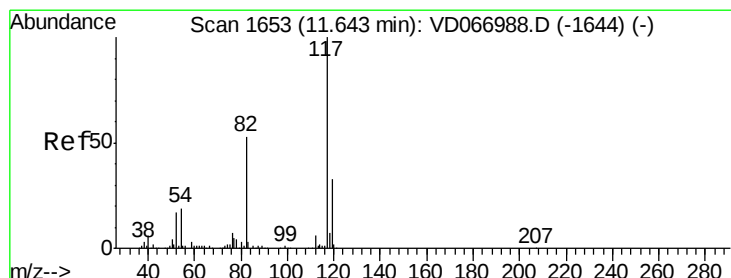
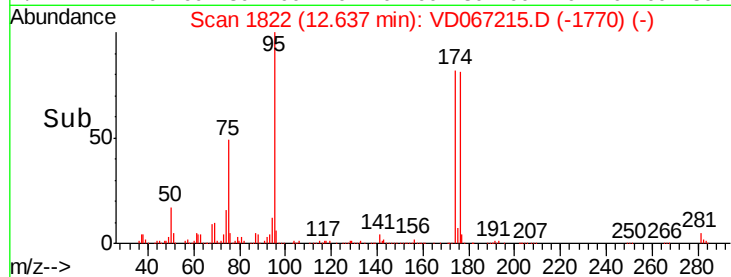
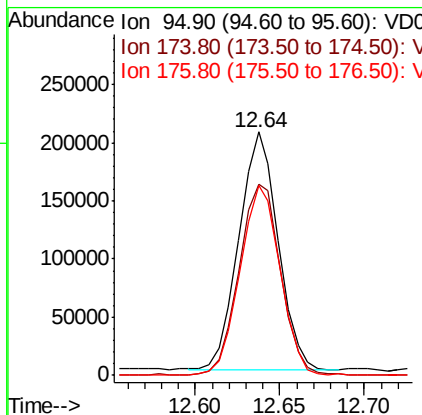
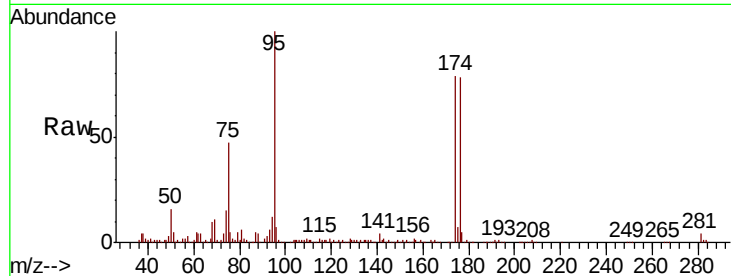




#62
4-Bromofluorobenzene
Concen: 52.291 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD067215.D
Acq: 09 Oct 2020 16:50

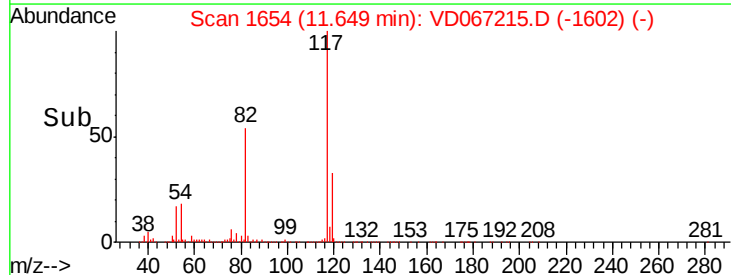
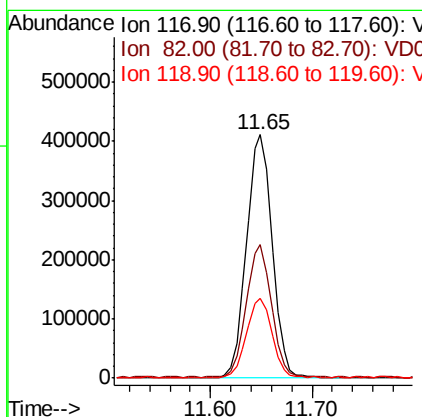
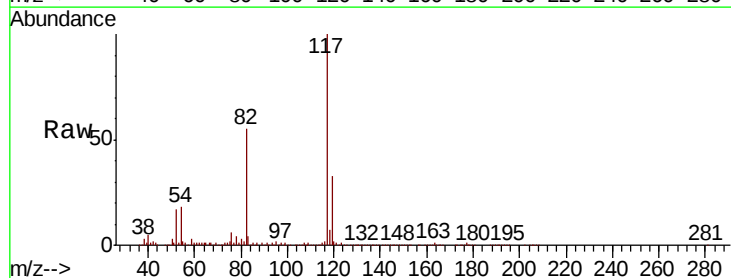
Instrument :
MSVOA_D
ClientSampled :
11929

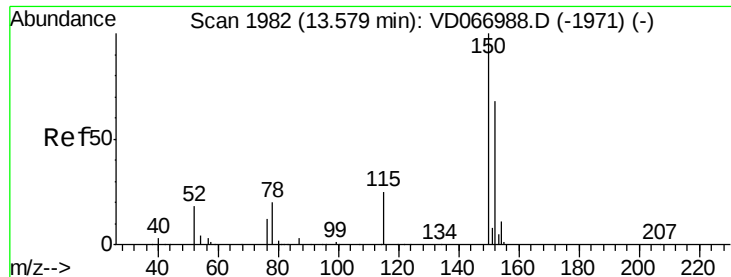
Tot Ion: 95 Resp: 329067
Ion Ratio Lower Upper
95 100
174 85.4 0.0 167.6
176 82.4 0.0 162.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD067215.D
Acq: 09 Oct 2020 16:50

Tgt Ion: 117 Resp: 722169
Ion Ratio Lower Upper
117 100
82 54.6 42.6 63.8
119 32.8 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD067215.D

Acq: 09 Oct 2020 16:50

Instrument :

MSVOA_D

ClientSampleId :

11929

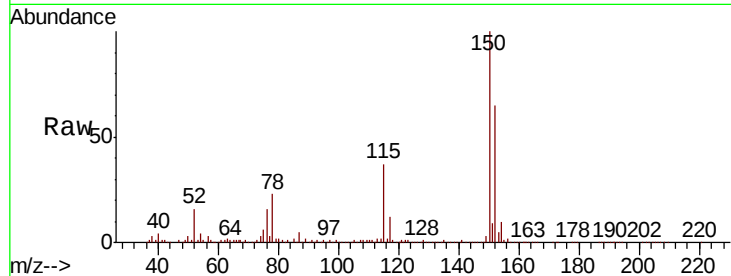
Tot Ion:152 Resp: 358737

Ion Ratio Lower Upper

152 100

115 58.6 29.6 88.8

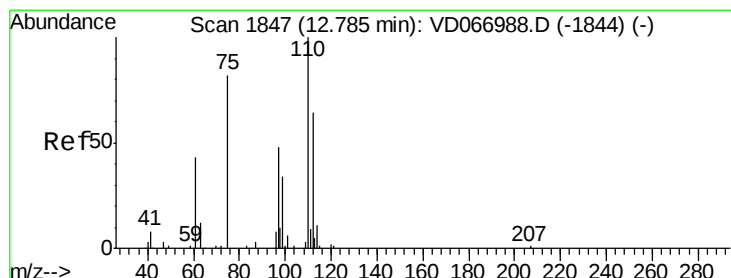
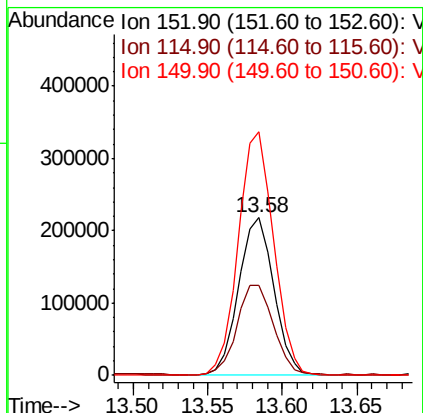
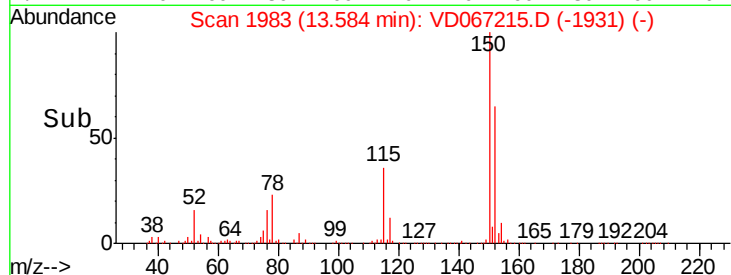
150 153.3 0.0 344.8



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



#76

1,2,3-Trichloropropane

Concen: 53.009 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067215.D

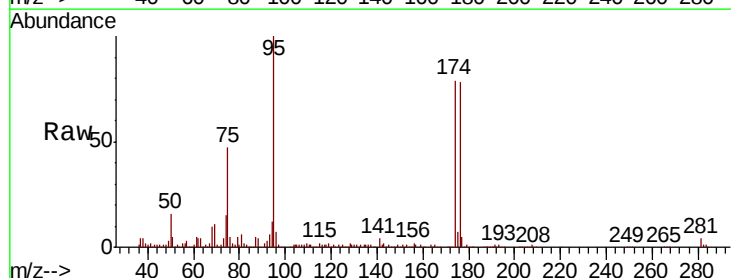
Acq: 09 Oct 2020 16:50

Tgt Ion: 75 Resp: 165639

Ion Ratio Lower Upper

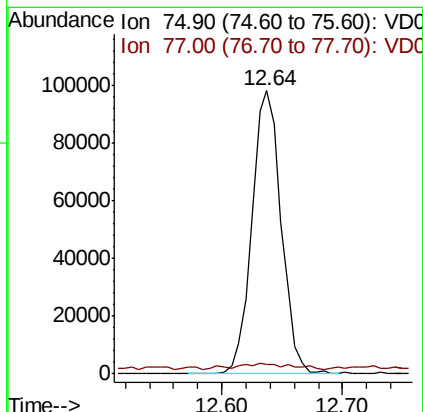
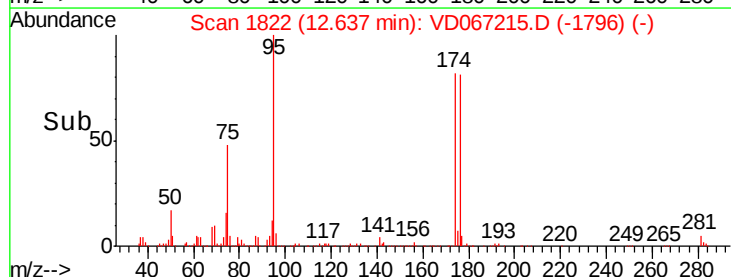
75 100

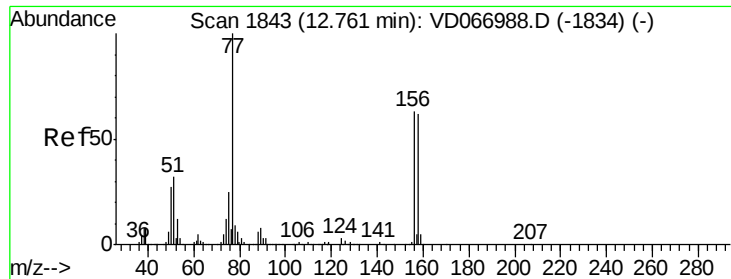
77 3.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 2.575 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.12 min

Lab File: VD067215.D

Acq: 09 Oct 2020 16:50

Instrument :

MSVOA_D

ClientSampled :

11929

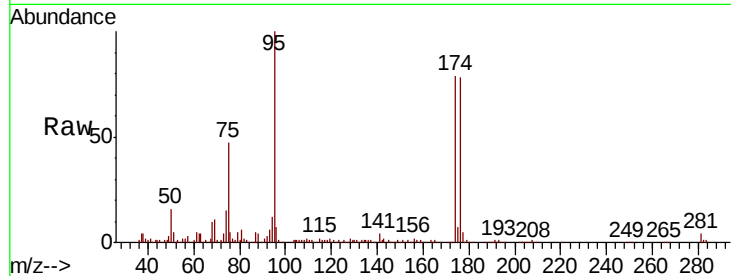
Tot Ion:156 Resp: 15145

Ion Ratio Lower Upper

156 100

77 37.1 86.3 258.8#

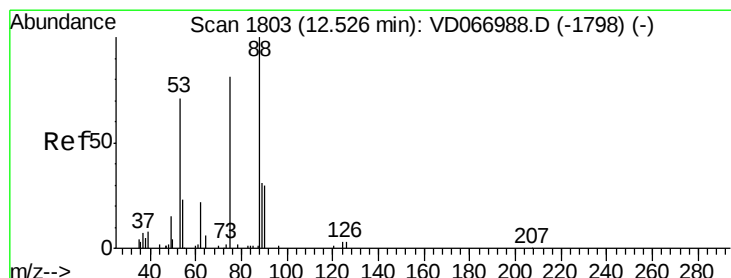
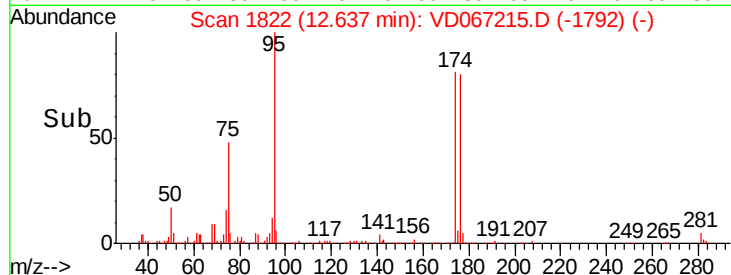
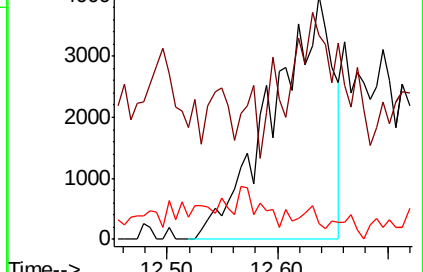
158 1.7 49.5 148.3#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 132.159 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067215.D

Acq: 09 Oct 2020 16:50

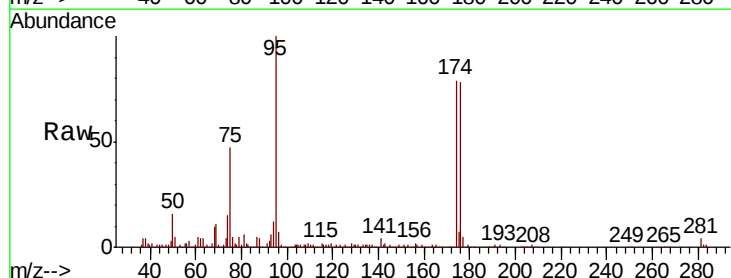
Tgt Ion: 75 Resp: 165639

Ion Ratio Lower Upper

75 100

53 1.5 73.8 110.6#

89 1.0 38.9 58.3#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V

