

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101119\
 Data File : VD063947.D
 Acq On : 11 Oct 2019 19:58
 Operator : VA/SY
 Sample : K5316-03
 Misc : 7.44G/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 12 01:39:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	153982	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	267231	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	253739	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	110677	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	84864	56.61	ug/l	0.00
Spiked Amount						
			Recovery	=	113.22%	
35) Dibromofluoromethane	7.92	113	84167	51.54	ug/l	0.00
Spiked Amount						
			Recovery	=	103.08%	
50) Toluene-d8	10.34	98	349313	52.70	ug/l	0.00
Spiked Amount						
			Recovery	=	105.40%	
62) 4-Bromofluorobenzene	12.64	95	100253	43.52	ug/l	0.00
Spiked Amount						
			Recovery	=	87.04%	

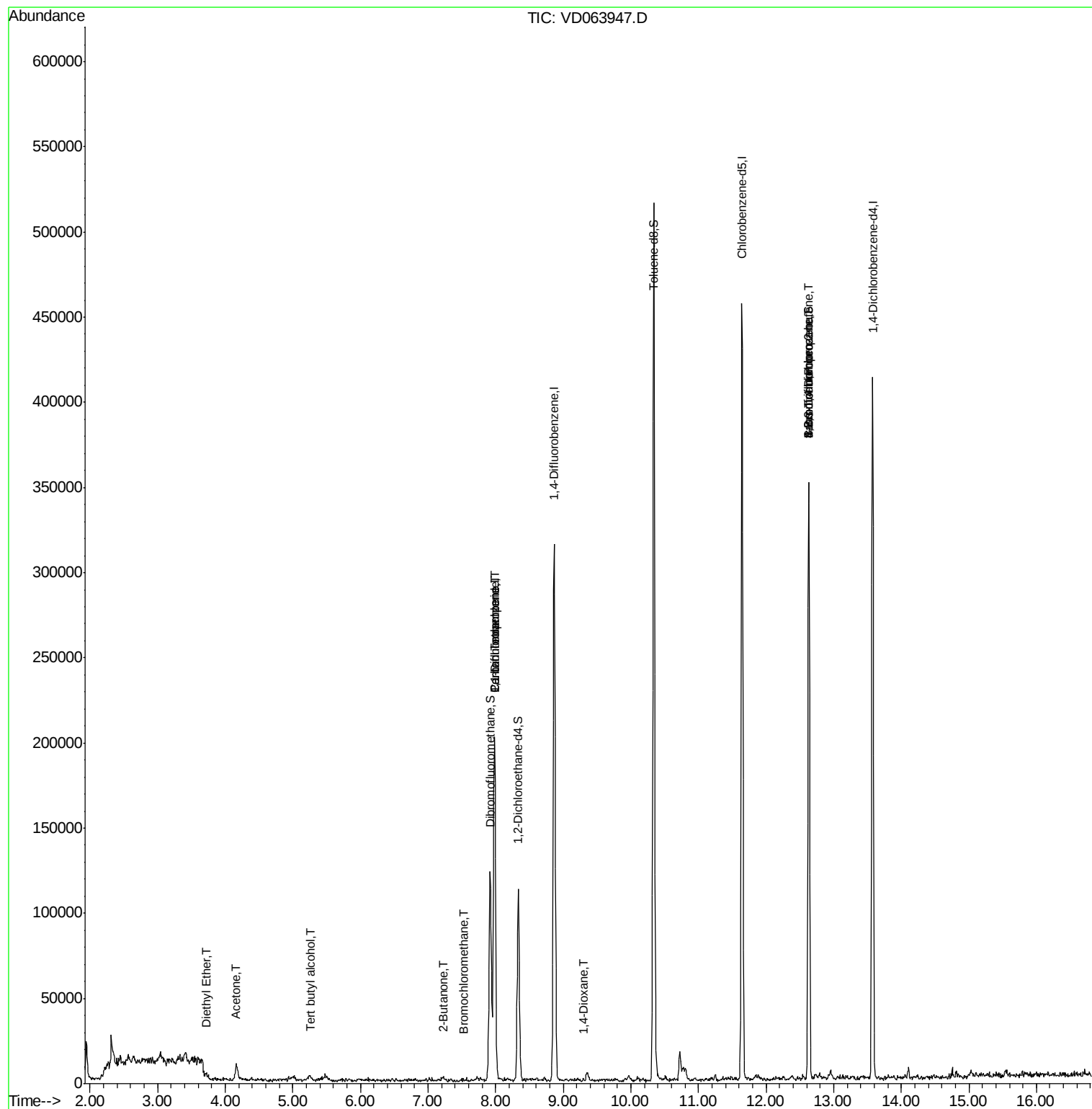
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	257	Below Cal	#	40
8) Diethyl Ether	3.73	74	939	1.254	ug/l	68
11) Tert butyl alcohol	5.26	59	4020	31.592	ug/l #	76
16) Acetone	4.17	43	15388	39.426	ug/l #	82
20) Methylene Chloride	4.96	84	987	Below Cal	#	41
25) 2-Butanone	7.23	43	801	1.732	ug/l #	77
28) Bromochloromethane	7.52	49	58	1.919	ug/l #	71
31) Cyclohexane	7.98	56	4950	Below Cal	#	63
36) 1,1-Dichloropropene	7.98	75	12097	4.951	ug/l #	51
37) Ethyl Acetate	7.30	43	93	Below Cal	#	1
38) Carbon Tetrachloride	7.98	117	16007	6.483	ug/l #	25
49) 1,4-Dioxane	9.30	88	70	5.254	ug/l #	1
71) Bromoform	12.63	173	1256	1.246	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	53131	71.674	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	53131	126.835	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.59	75	118	Below Cal	#	1

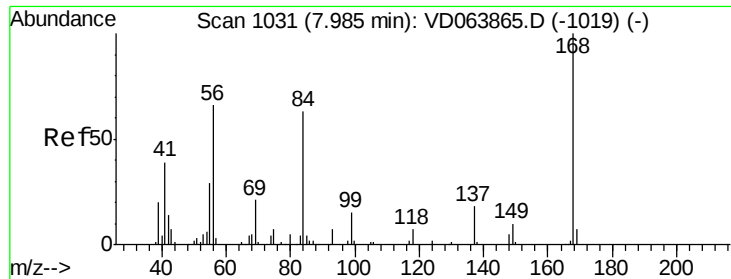
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD101119\
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QLast Update : Sat Oct 05 03:51:17 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

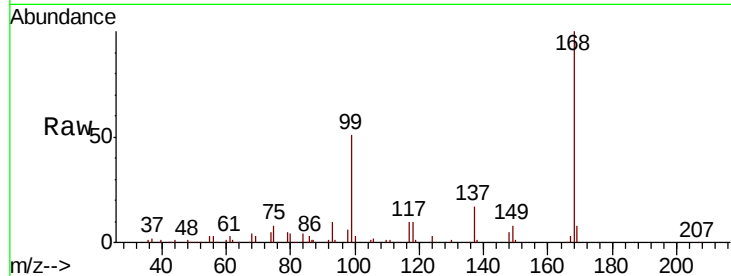
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 153982

Ion Ratio Lower Upper

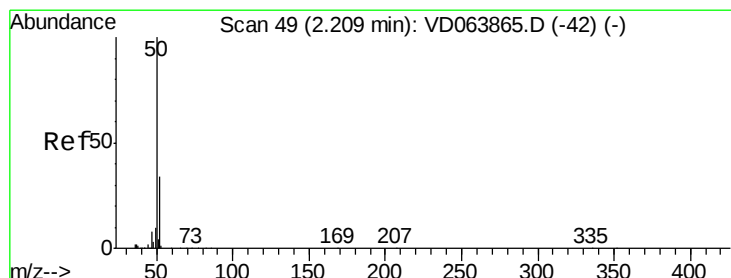
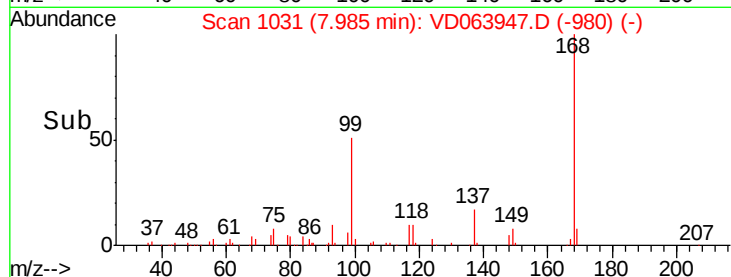
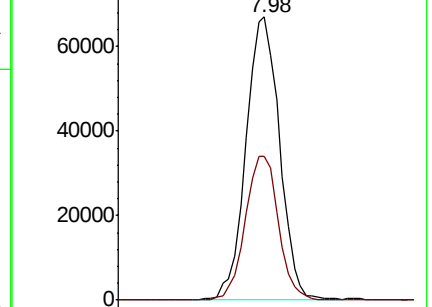
168 100

99 50.9 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD063947.D

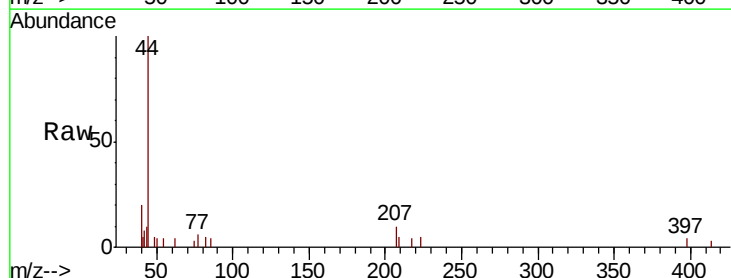
Acq: 11 Oct 2019 19:58

Tgt Ion: 50 Resp: 257

Ion Ratio Lower Upper

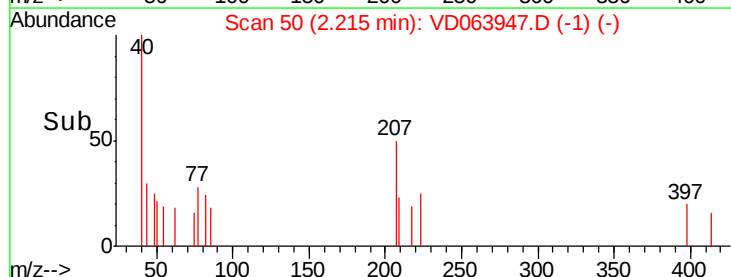
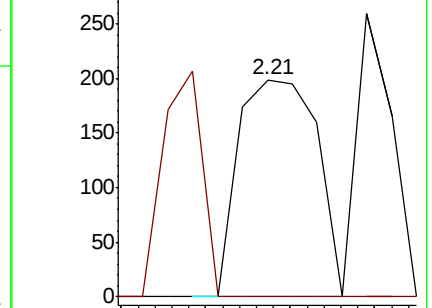
50 100

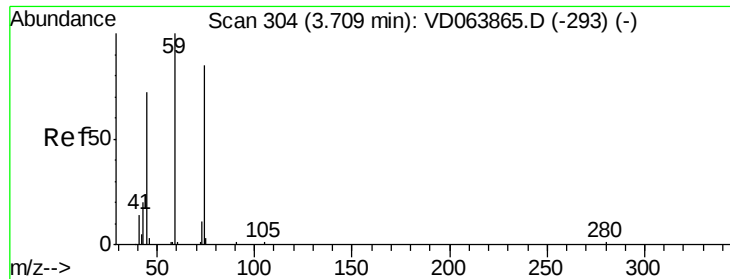
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#8

Diethyl Ether

Concen: 1.254 ug/l

RT: 3.73 min Scan# 307

Delta R.T. 0.02 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

Instrument :

MSVOA_D

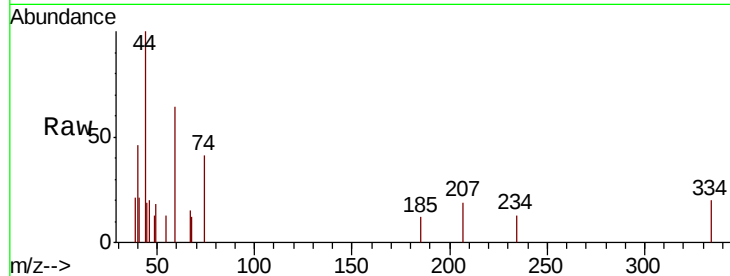
ClientSampleId :

Tot Ion: 74 Resp: 939

Ion Ratio Lower Upper

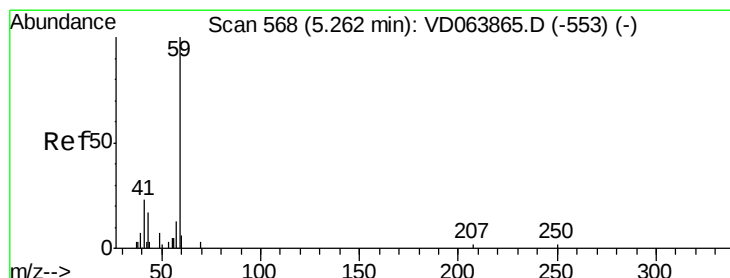
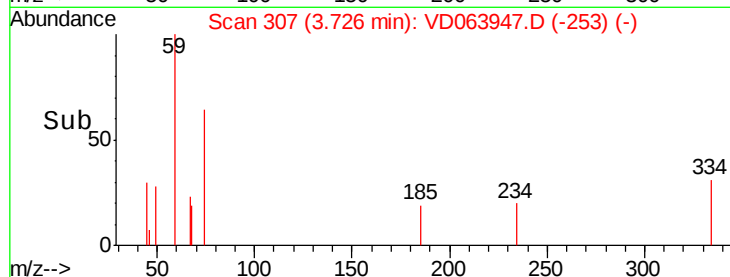
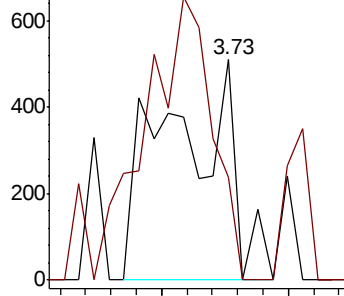
74 100

45 127.8 48.1 144.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC



#11

Tert butyl alcohol

Concen: 31.592 ug/l

RT: 5.26 min Scan# 568

Delta R.T. 0.00 min

Lab File: VD063947.D

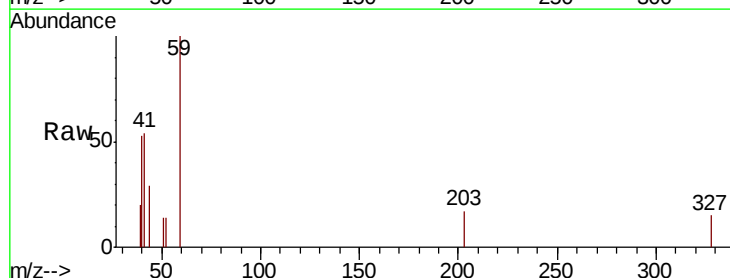
Acq: 11 Oct 2019 19:58

Tgt Ion: 59 Resp: 4020

Ion Ratio Lower Upper

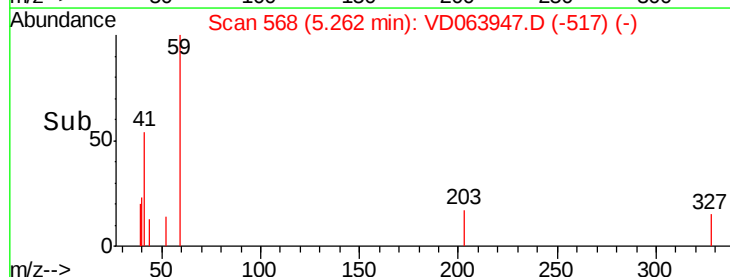
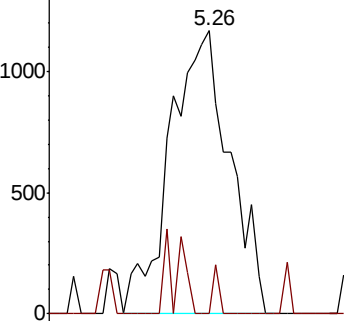
59 100

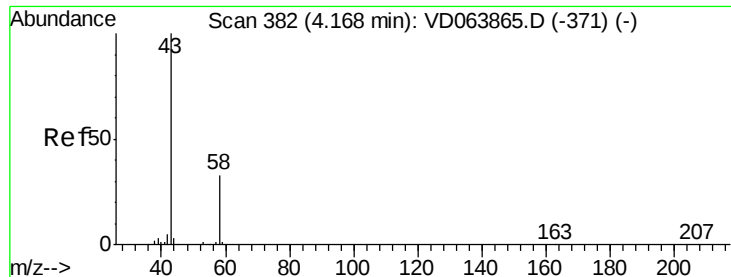
57 1.8 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 39.426 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

Instrument :

MSVOA_D

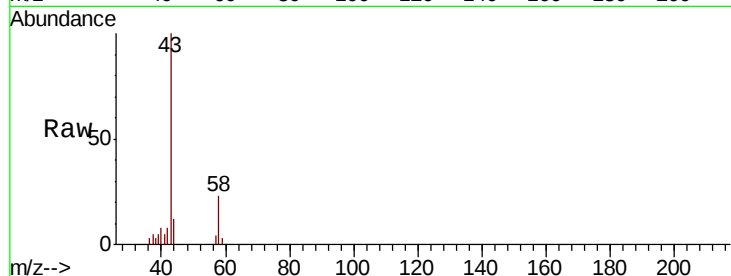
ClientSampleId :

Tot Ion: 43 Resp: 15388

Ion Ratio Lower Upper

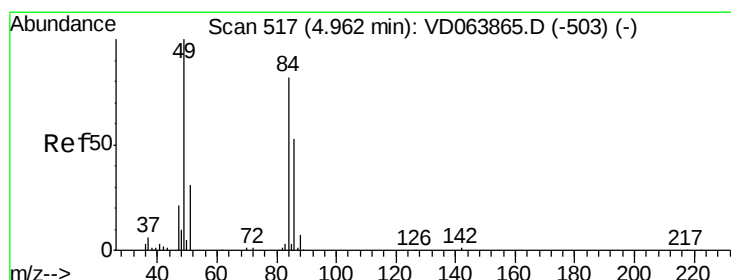
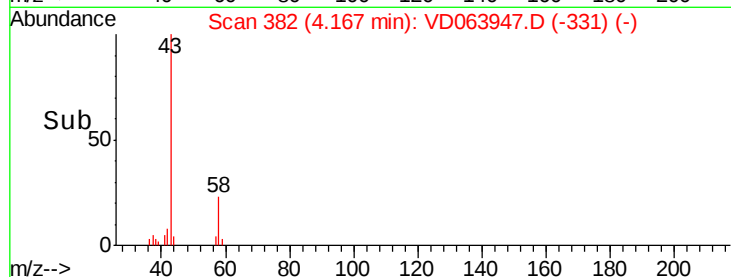
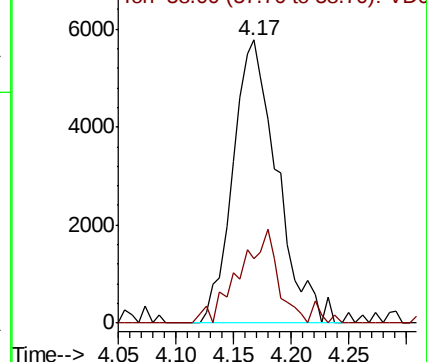
43 100

58 22.7 26.2 39.4#



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# 516

Delta R.T. -0.01 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

Tgt Ion: 84 Resp: 987

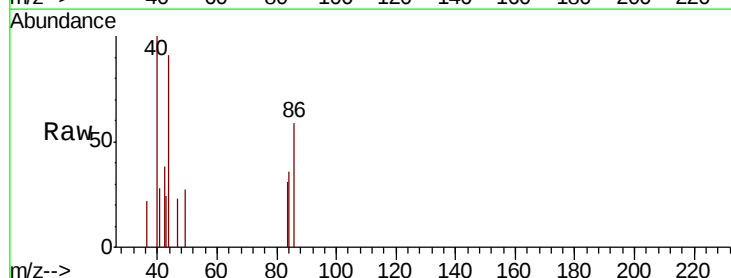
Ion Ratio Lower Upper

84 100

49 40.8 97.3 145.9#

51 0.0 30.1 45.1#

86 88.1 51.4 77.2#

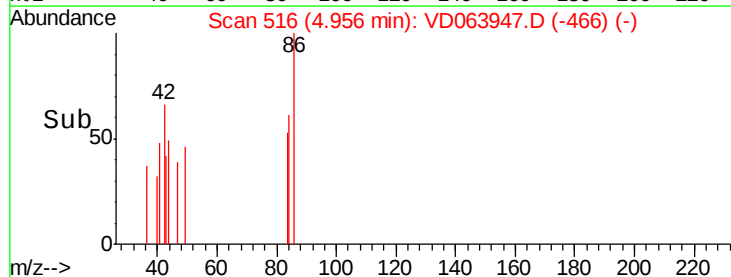
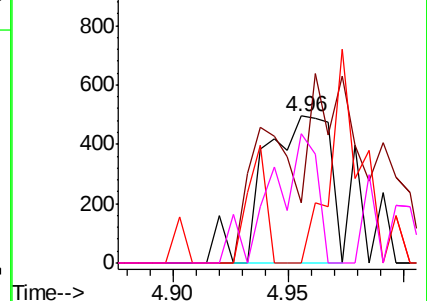


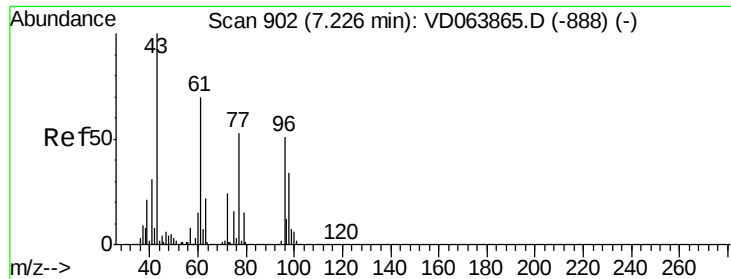
Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 1.732 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

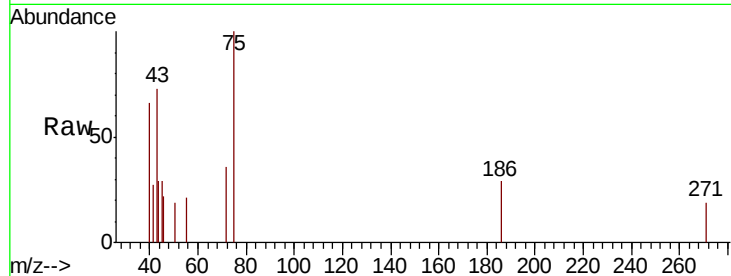
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43.00 Resp: 801

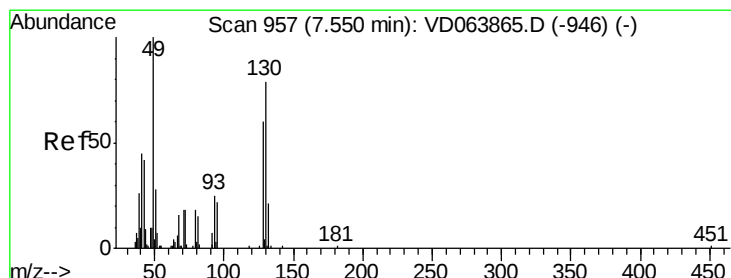
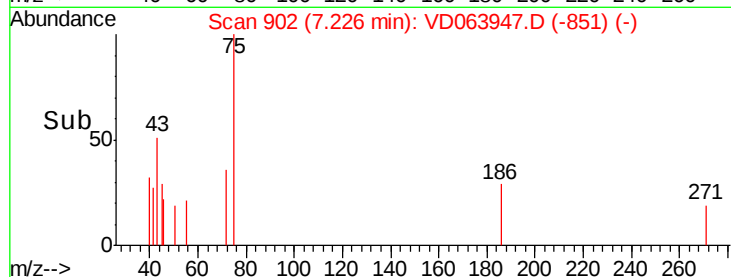
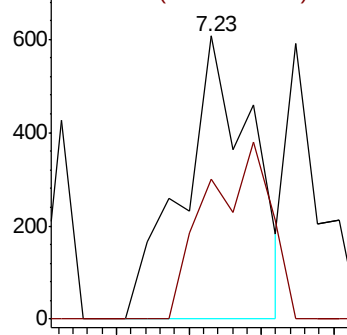
Ion Ratio Lower Upper

43 100

72 35.3 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 1.919 ug/l

RT: 7.52 min Scan# 952

Delta R.T. -0.03 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

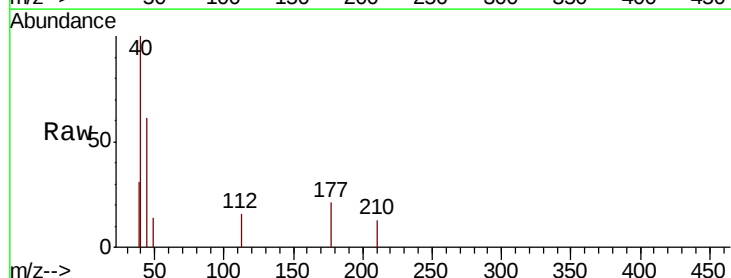
Tgt Ion: 49 Resp: 58

Ion Ratio Lower Upper

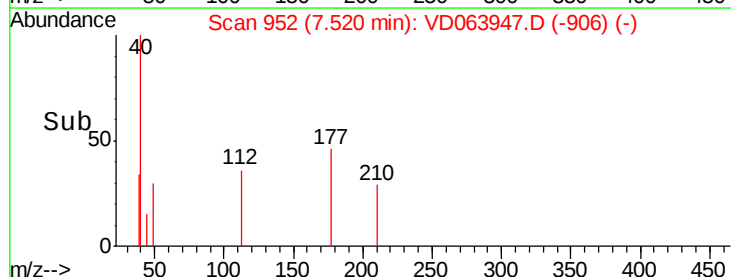
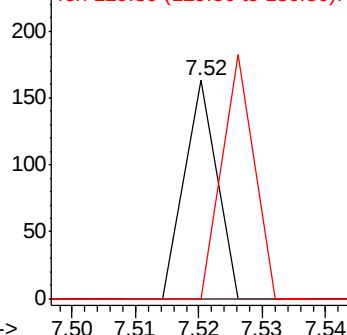
49 100

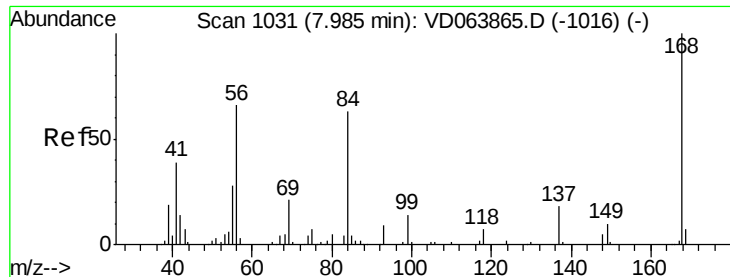
129 0.0 0.0 5.6

130 110.3 66.8 100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

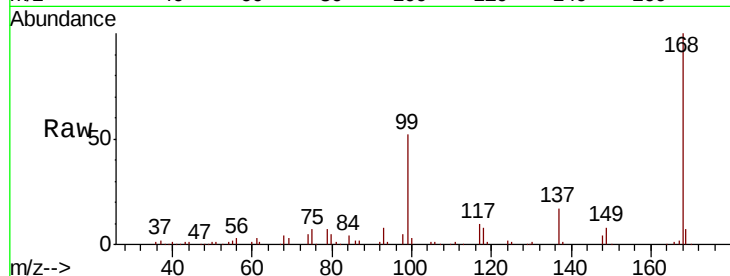




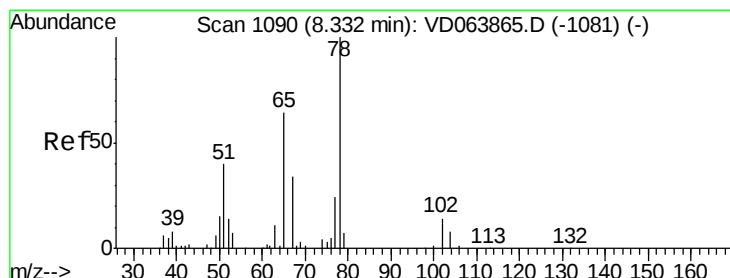
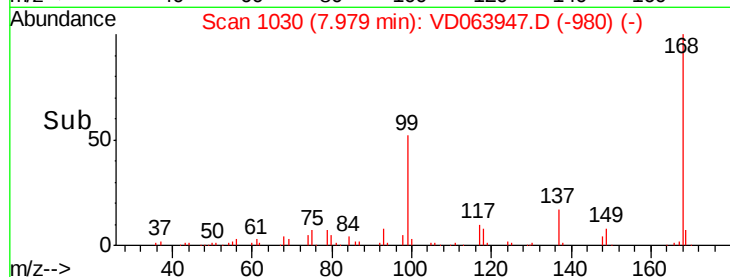
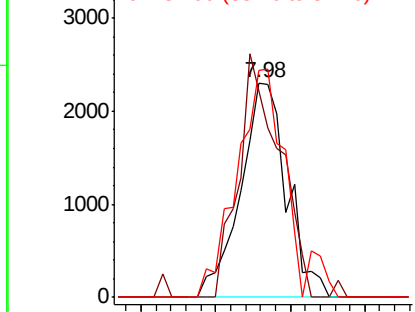
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD063947.D
Acq: 11 Oct 2019 19:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 4950
Ion Ratio Lower Upper
56 100
69 96.1 25.0 37.4#
84 106.1 76.3 114.5

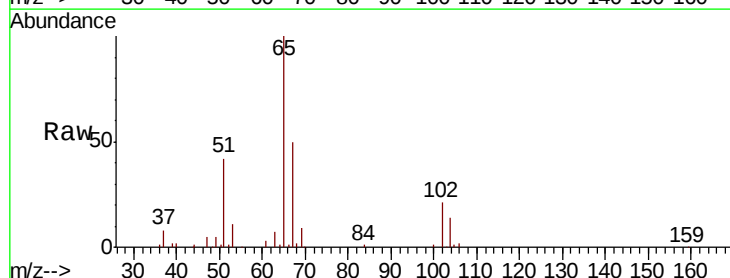


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

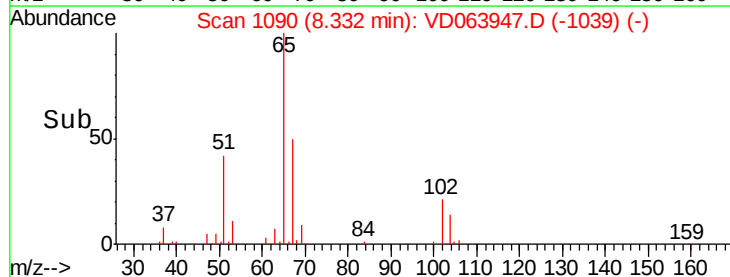
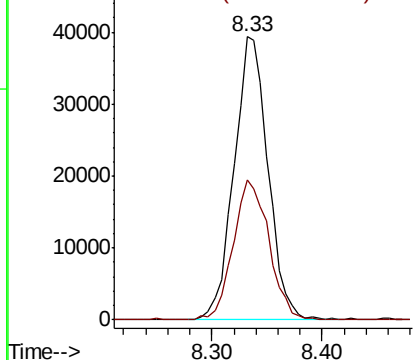


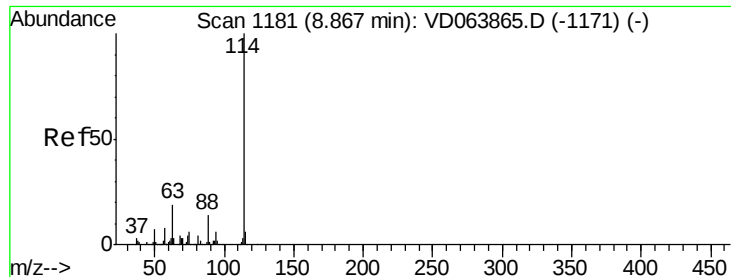
#33
1,2-Dichloroethane-d4
Concen: 56.609 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VD063947.D
Acq: 11 Oct 2019 19:58

Tgt Ion: 65 Resp: 84864
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.4



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

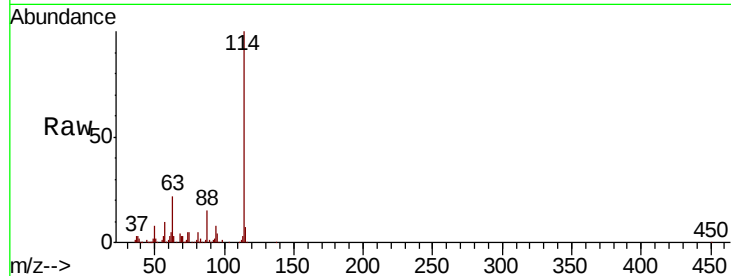




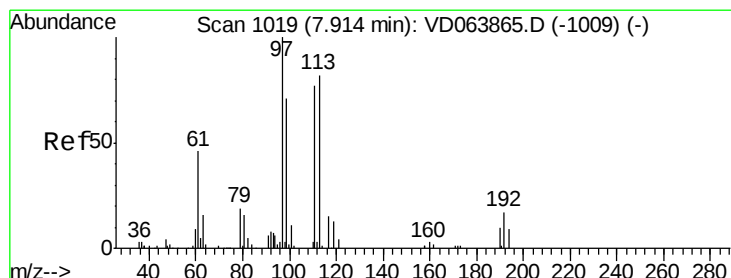
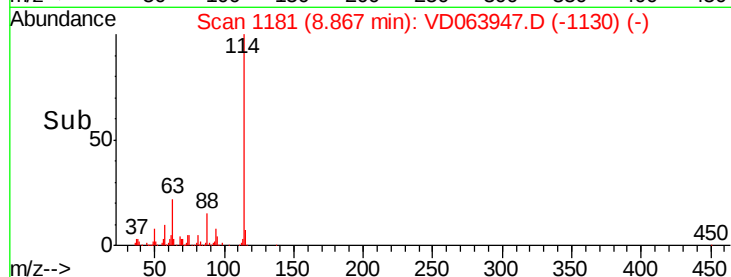
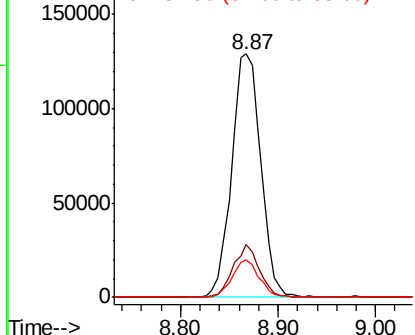
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD063947.D
Acq: 11 Oct 2019 19:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	38.4
88	15.2	0.0	27.4

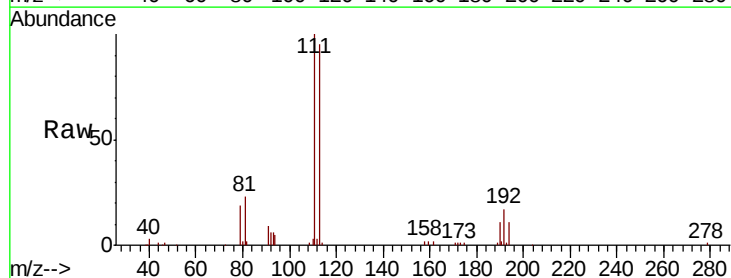


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

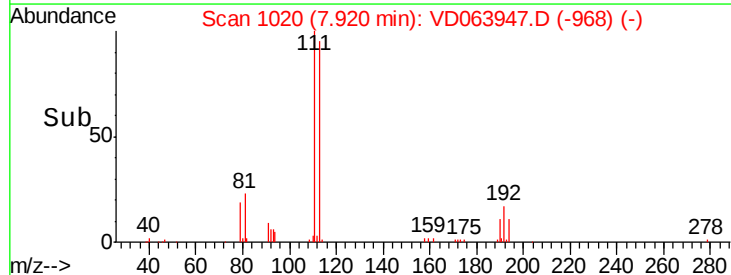
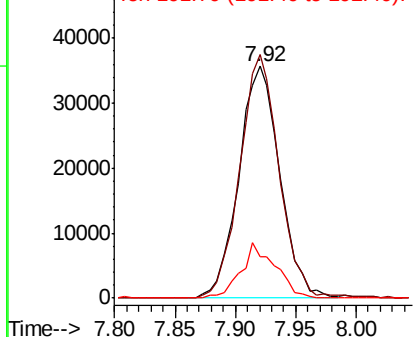


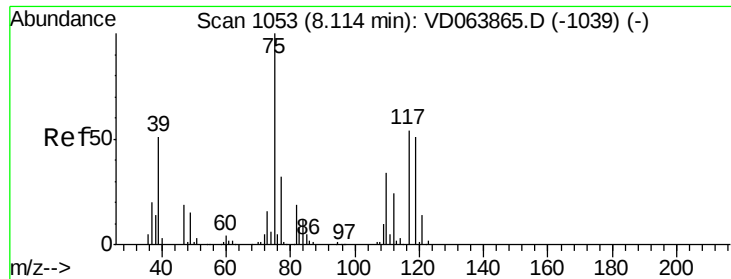
#35
Dibromofluoromethane
Concen: 51.537 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD063947.D
Acq: 11 Oct 2019 19:58

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.6	123.8
192	20.1	17.1	25.7



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

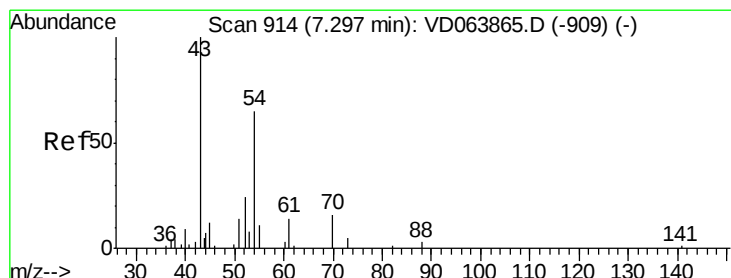
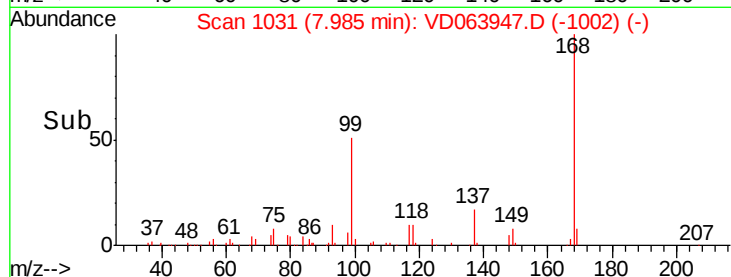
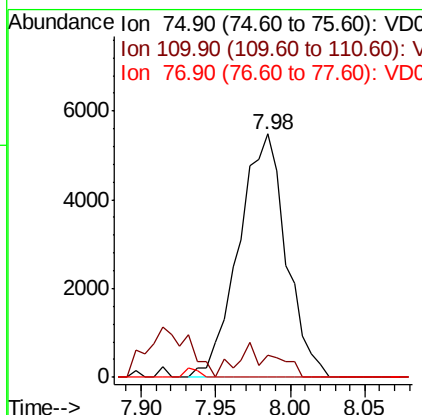
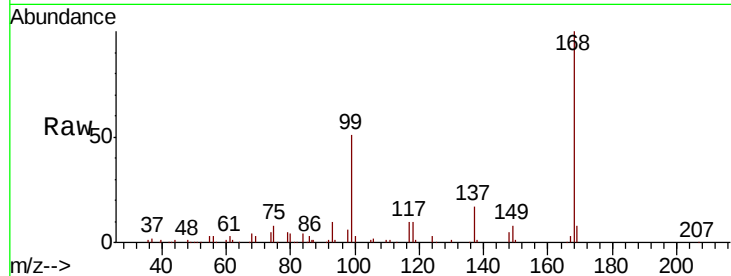




#36
 1,1-Dichloropropene
 Concen: 4.951 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD063947.D
 Acq: 11 Oct 2019 19:58

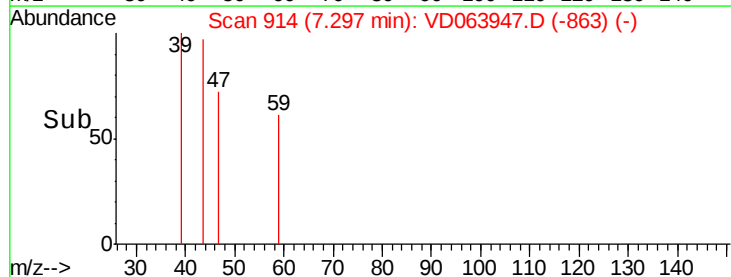
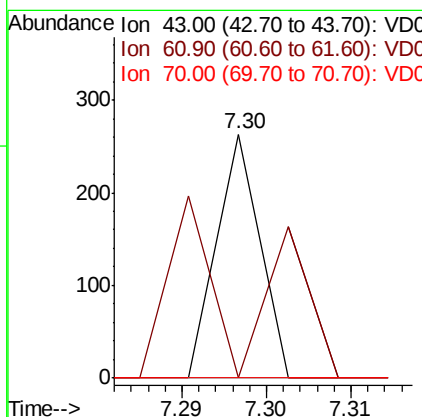
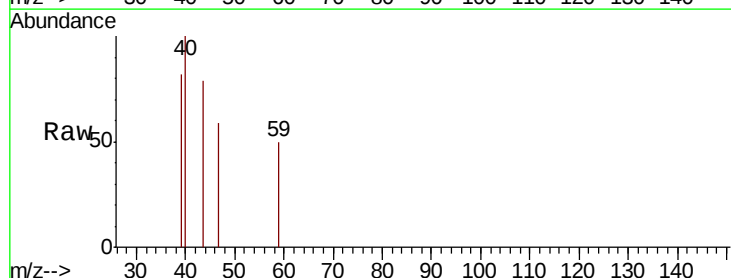
Instrument :
 MSVOA_D
 ClientSampled :

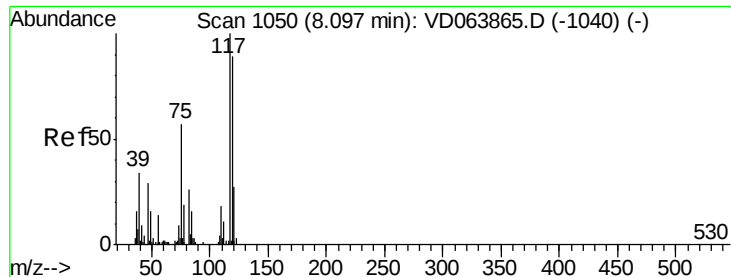
Tot Ion: 75 Resp: 12097
 Ion Ratio Lower Upper
 75 100
 110 10.9 17.4 52.3#
 77 0.0 25.4 38.0#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.30 min Scan# 914
 Delta R.T. 0.00 min
 Lab File: VD063947.D
 Acq: 11 Oct 2019 19:58

Tgt Ion: 43 Resp: 93
 Ion Ratio Lower Upper
 43 100
 61 136.6 11.5 17.3#
 70 0.0 8.2 12.4#





#38

Carbon Tetrachloride

Concen: 6.483 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

Instrument :

MSVOA_D

ClientSampled :

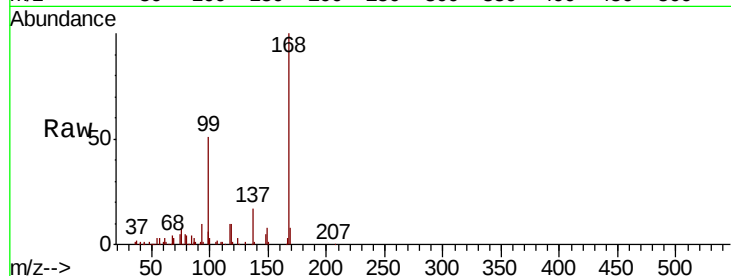
Tot Ion:117 Resp: 16007

Ion Ratio Lower Upper

117 100

119 12.0 70.8 106.2#

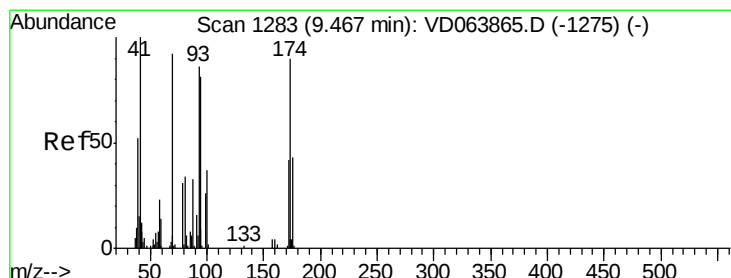
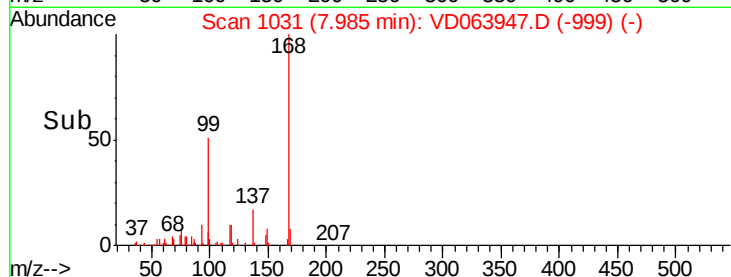
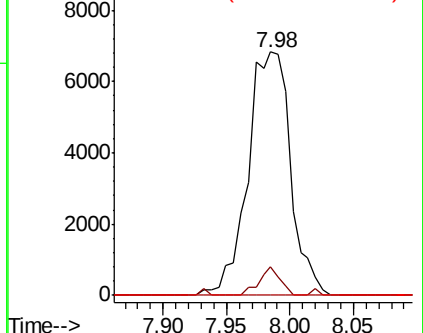
121 0.0 21.4 32.0#



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



#49

1,4-Dioxane

Concen: 5.254 ug/l

RT: 9.30 min Scan# 1255

Delta R.T. -0.16 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

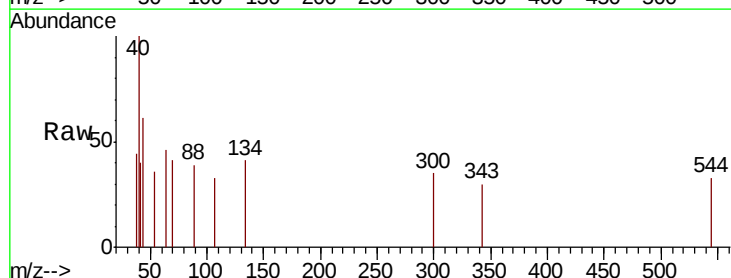
Tgt Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

43 180.0 27.6 41.4#

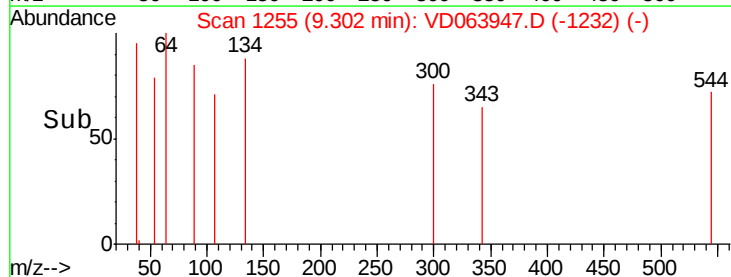
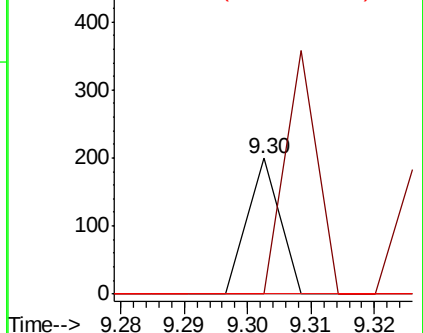
58 0.0 54.1 81.1#

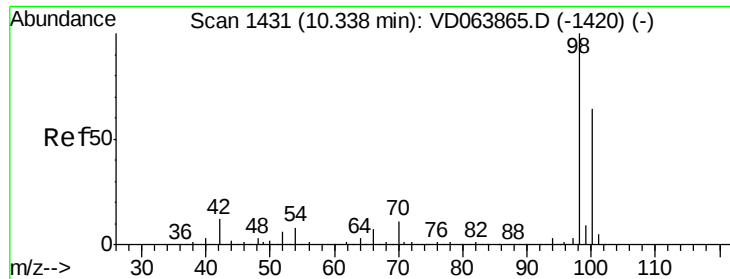


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#50

Toluene-d8

Concen: 52.698 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

Instrument :

MSVOA_D

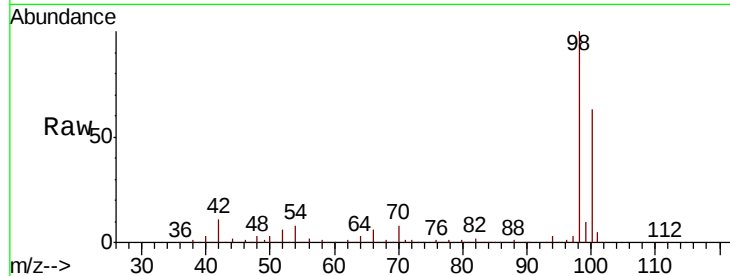
ClientSampleId :

Tot Ion: 98 Resp: 349313

Ion Ratio Lower Upper

98 100

100 64.4 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VD063865.D (-1420) (-)

Ion 100.00 (99.70 to 100.70): VD063865.D (-1420) (-)

10.34

200000

150000

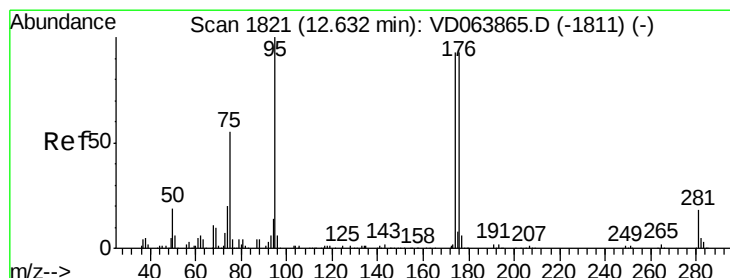
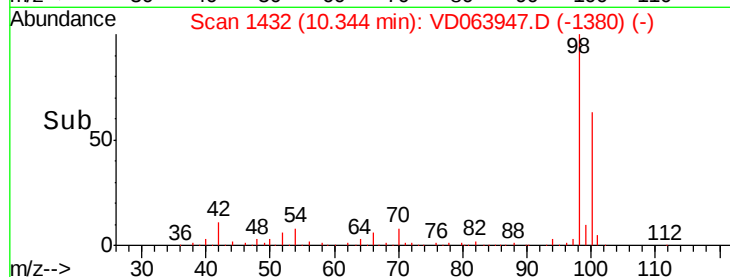
100000

50000

0

10.30 10.40

Time-->



#62

4-Bromofluorobenzene

Concen: 43.523 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

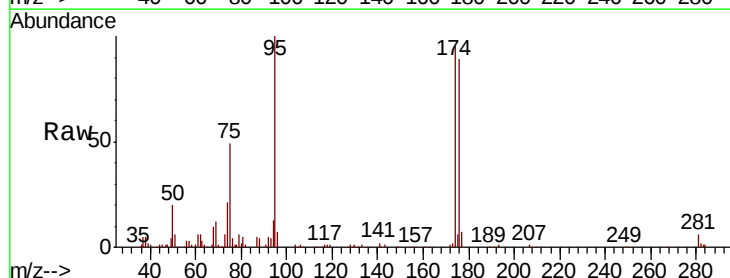
Tgt Ion: 95 Resp: 100253

Ion Ratio Lower Upper

95 100

174 92.7 0.0 186.4

176 90.4 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): VD063865.D (-1811) (-)

Ion 173.80 (173.50 to 174.50): VD063865.D (-1811) (-)

Ion 175.80 (175.50 to 176.50): VD063865.D (-1811) (-)

12.64

80000

60000

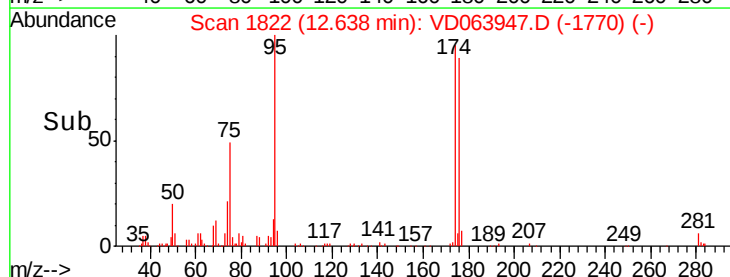
40000

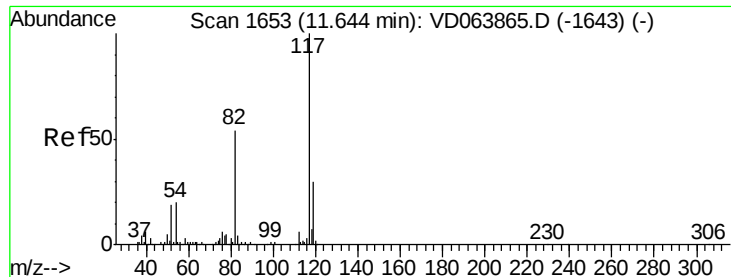
20000

0

12.60 12.70

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

Instrument :

MSVOA_D

ClientSampleId :

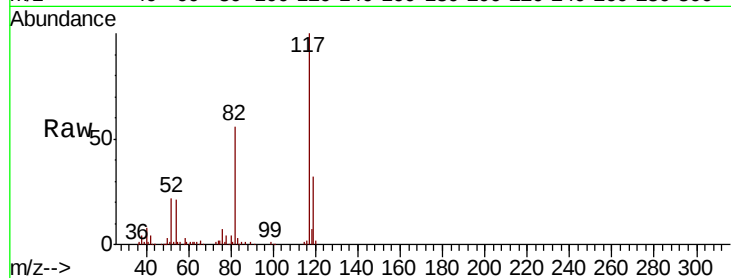
Tot Ion:117 Resp: 253739

Ion Ratio Lower Upper

117 100

82 56.4 42.8 64.2

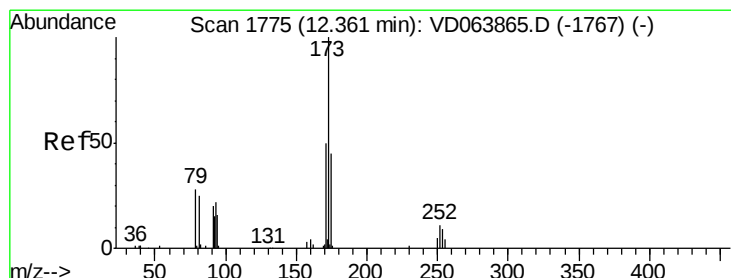
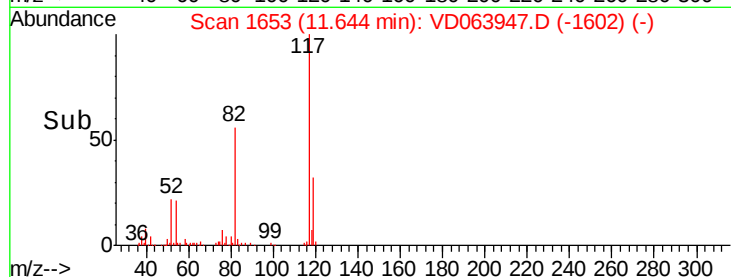
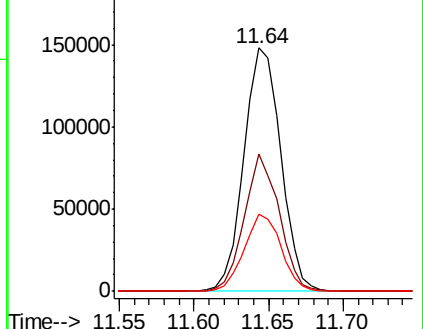
119 31.7 24.4 36.6



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



#71

Bromoform

Concen: 1.246 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.27 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

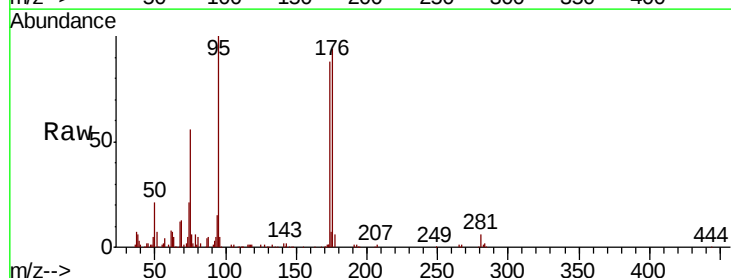
Tgt Ion:173 Resp: 1256

Ion Ratio Lower Upper

173 100

175 401.3 24.6 74.0#

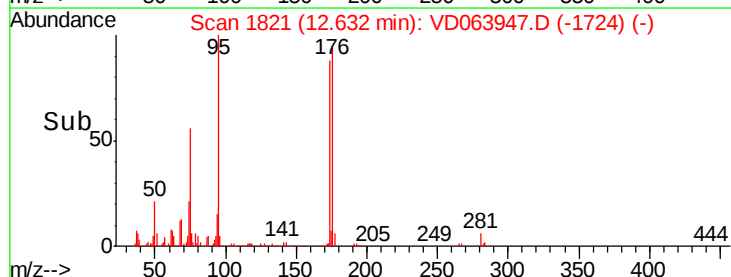
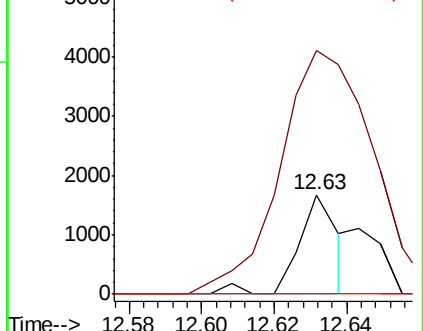
254 0.0 0.0 0.0

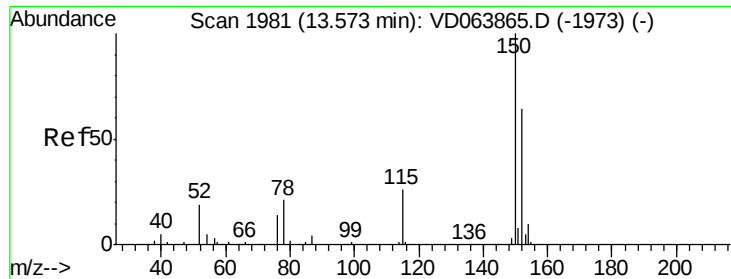


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

Instrument :

MSVOA_D

ClientSampled :

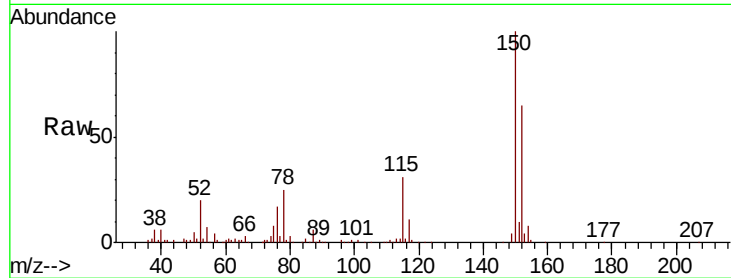
Tot Ion:152 Resp: 110677

Ion Ratio Lower Upper

152 100

115 52.6 25.9 77.7

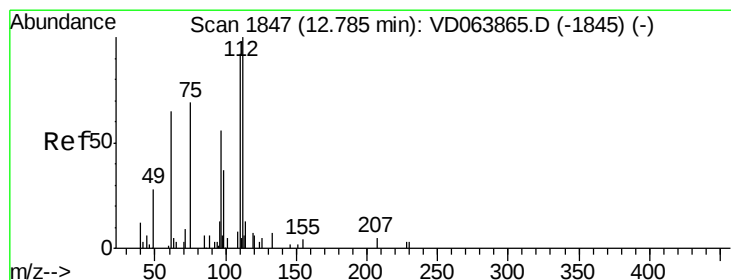
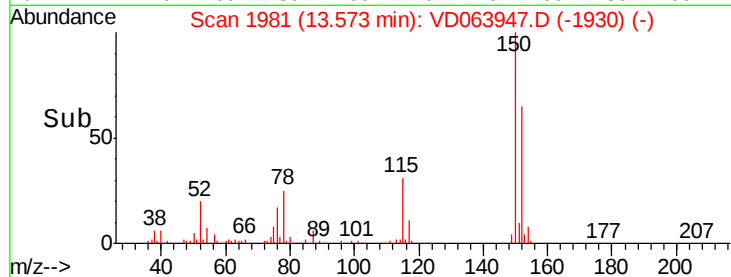
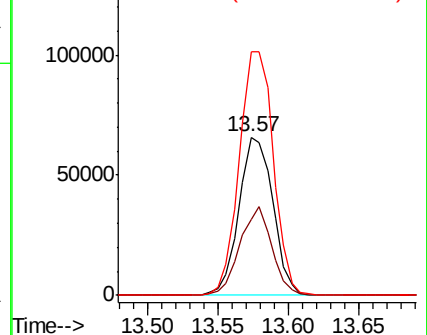
150 155.3 0.0 344.2



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: 71.674 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063947.D

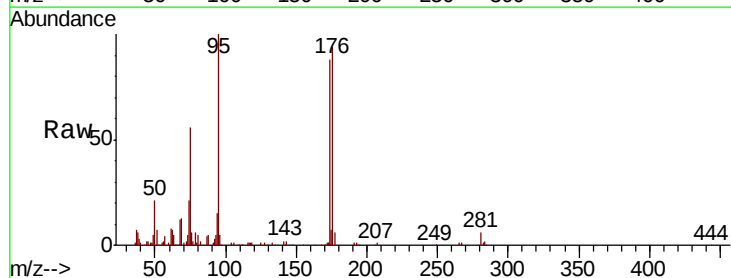
Acq: 11 Oct 2019 19:58

Tgt Ion: 75 Resp: 53131

Ion Ratio Lower Upper

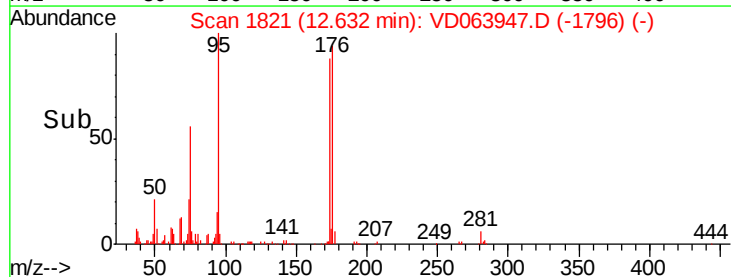
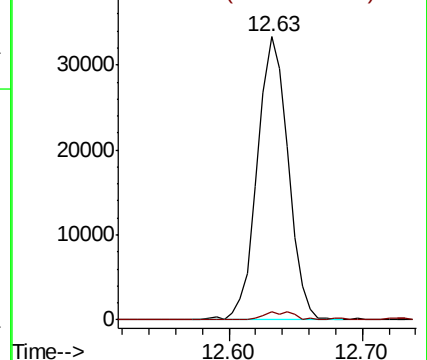
75 100

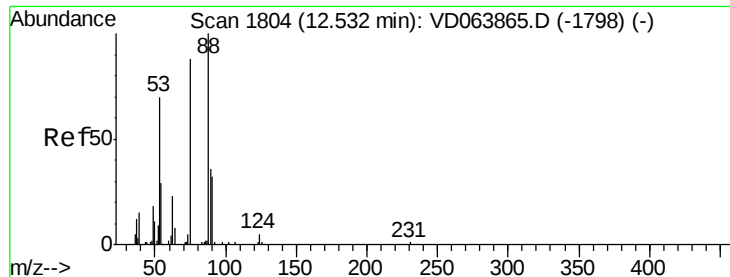
77 2.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 126.835 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

Instrument :

MSVOA_D

ClientSampleId :

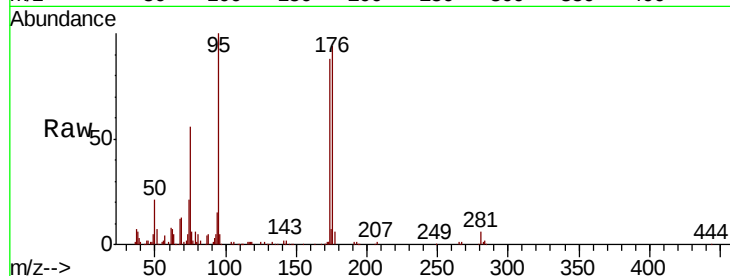
Tot Ion: 75 Resp: 53131

Ion Ratio Lower Upper

75 100

53 0.1 75.0 112.6#

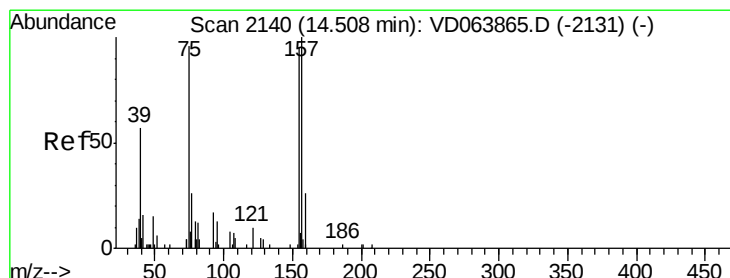
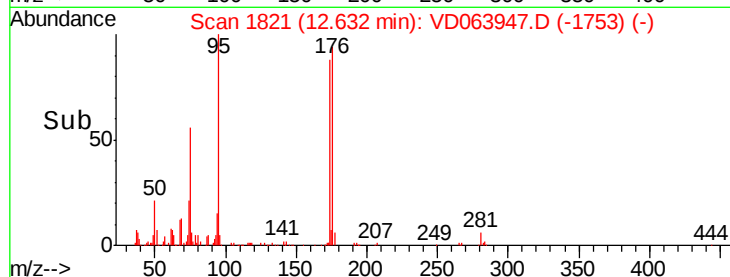
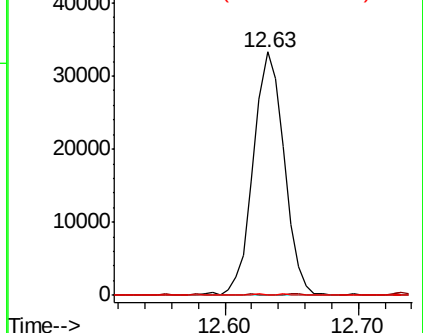
89 0.2 38.2 57.4#



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: Below Cal

RT: 14.59 min Scan# 2154

Delta R.T. 0.08 min

Lab File: VD063947.D

Acq: 11 Oct 2019 19:58

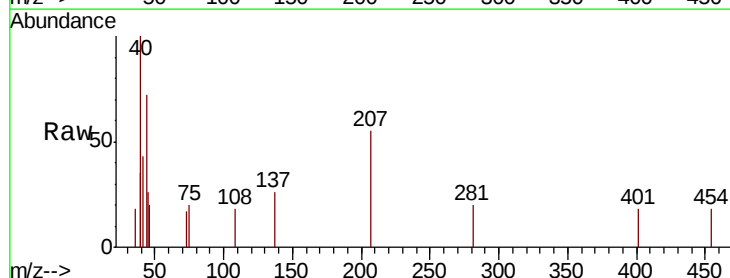
Tgt Ion: 75 Resp: 118

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#



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

