

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102419\
 Data File : VD064049.D
 Acq On : 24 Oct 2019 16:49
 Operator : VA/SY
 Sample : K5498-18RE
 Misc : 5.04G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 25 03:58:50 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	50588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	90439	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	93885	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	40574	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	28730	58.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.66%	
35) Dibromofluoromethane	7.92	113	29734	53.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.60%	
50) Toluene-d8	10.34	98	119733	53.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.74%	
62) 4-Bromofluorobenzene	12.64	95	33808	43.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.74%	

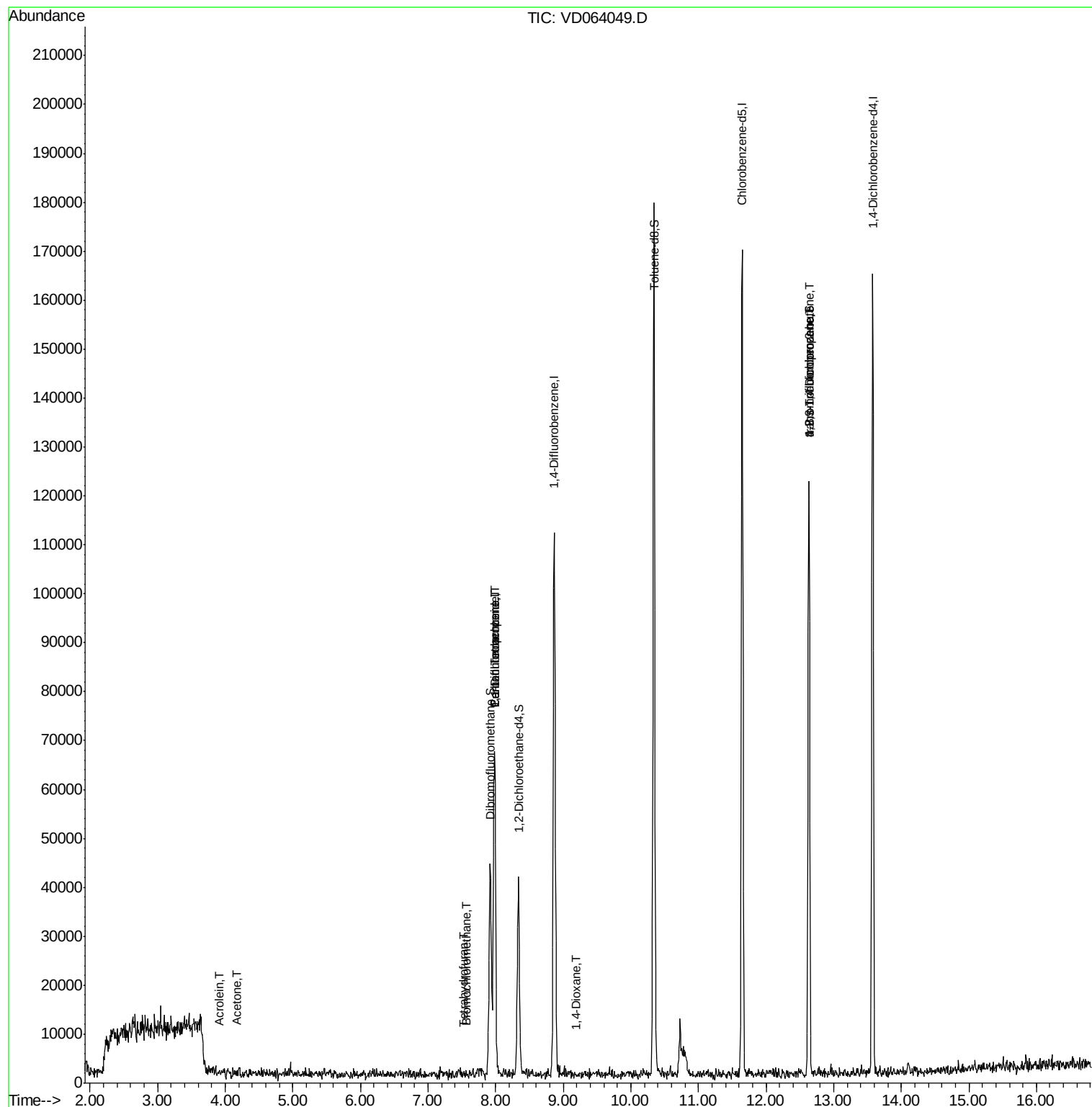
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	73	Below Cal	#	40
11) Tert butyl alcohol	5.26	59	65	Below Cal	#	71
13) Acrolein	3.91	56	64	1.455	ug/l #	17
16) Acetone	4.18	43	217	1.692	ug/l #	42
20) Methylene Chloride	4.96	84	221	Below Cal	#	2
28) Bromochloromethane	7.56	49	62	2.041	ug/l #	10
29) Tetrahydrofuran	7.52	42	95	1.071	ug/l #	31
31) Cyclohexane	7.97	56	1278	Below Cal	#	41
36) 1,1-Dichloropropene	7.99	75	4518	5.464	ug/l #	45
37) Ethyl Acetate	7.23	43	78	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	5417	6.483	ug/l #	15
49) 1,4-Dioxane	9.19	88	64	14.194	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	19010	69.953	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	19010	123.789	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.45	75	105	Below Cal	#	1

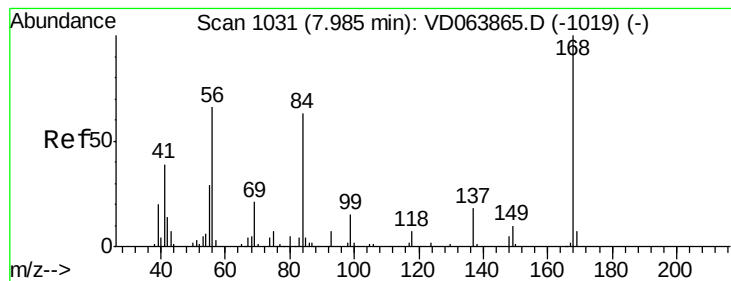
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102419\
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QLast Update : Sat Oct 05 03:51:17 2019
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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: VD064049.D

Acq: 24 Oct 2019 16:49

Instrument :

MSVOA_D

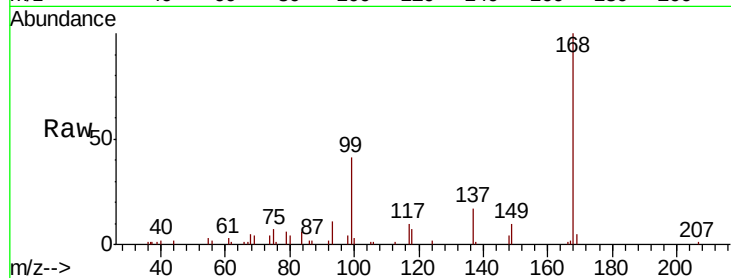
ClientSampleId :

Tot Ion:168 Resp: 50588

Ion Ratio Lower Upper

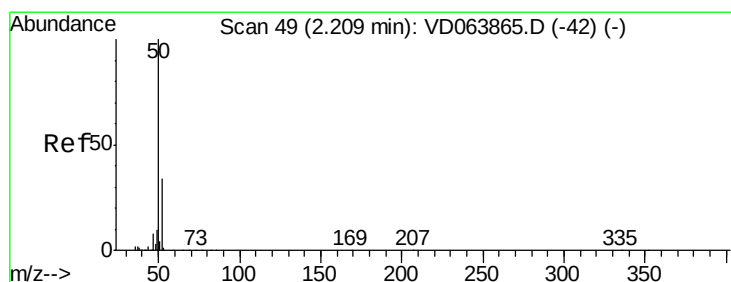
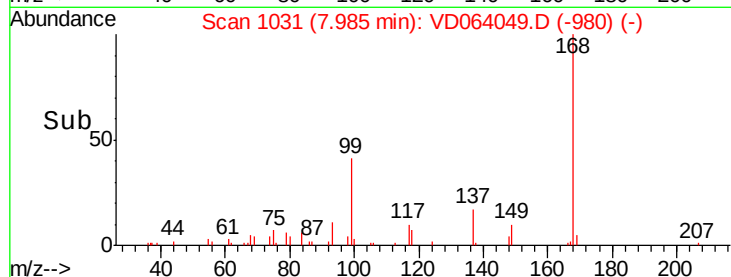
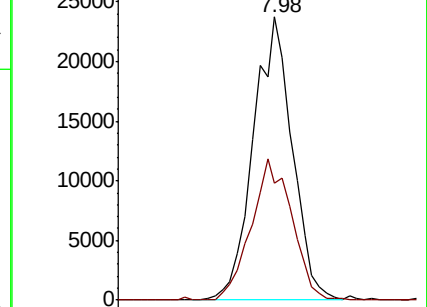
168 100

99 41.3 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: VD064049.D

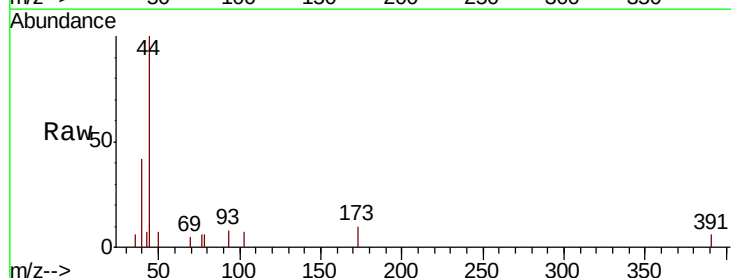
Acq: 24 Oct 2019 16:49

Tgt Ion: 50 Resp: 73

Ion Ratio Lower Upper

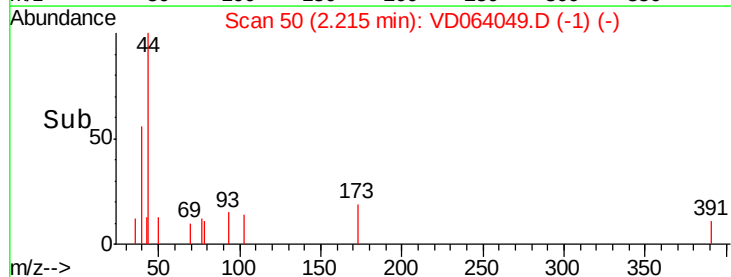
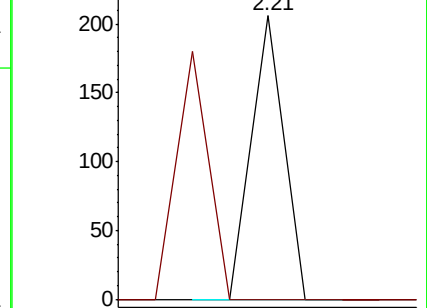
50 100

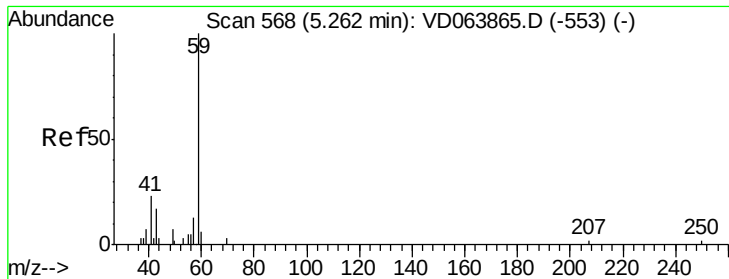
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



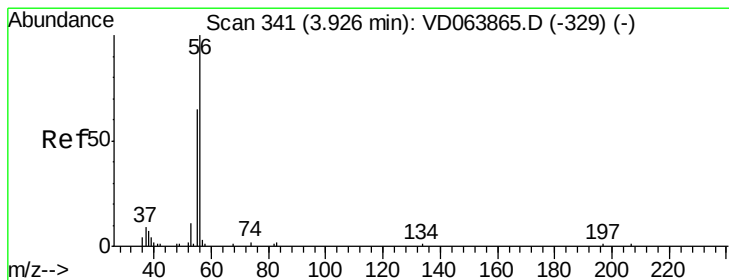
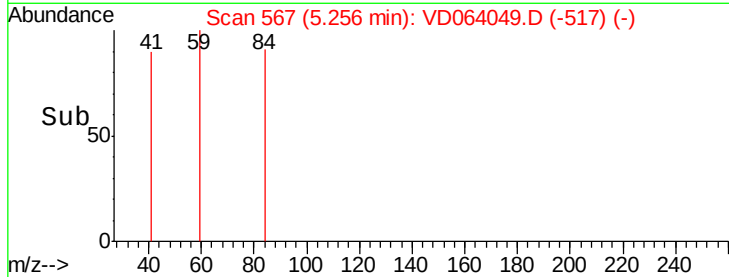
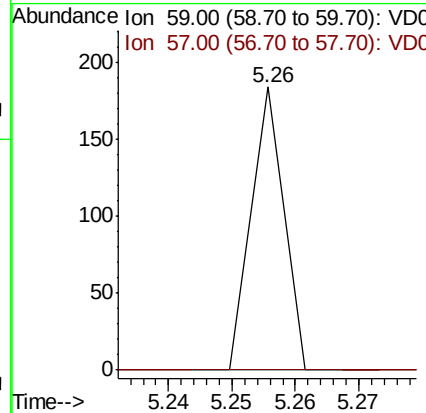
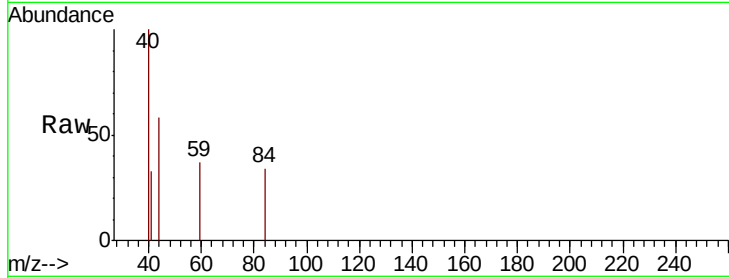


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.26 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: VD064049.D
 Acq: 24 Oct 2019 16:49

Instrument :
 MSVOA_D
 ClientSampled :

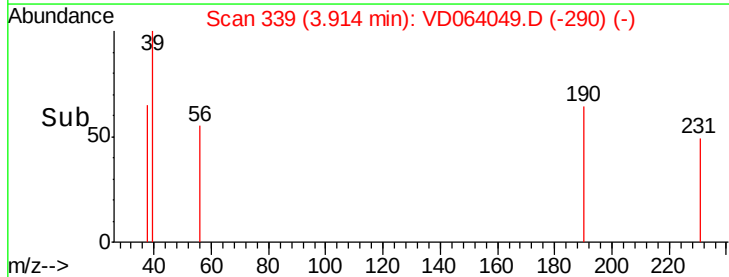
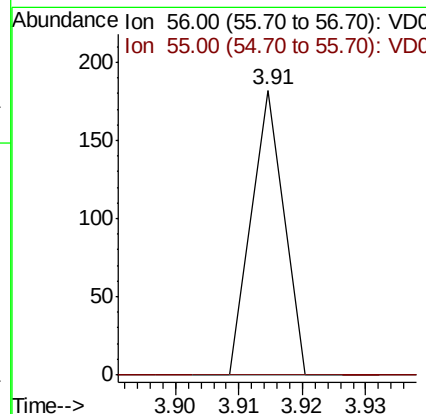
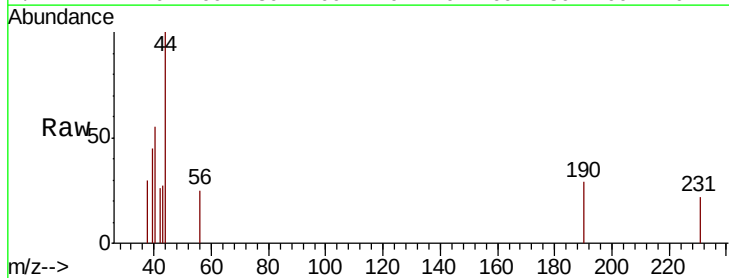
Tot Ion: 59 Resp: 65
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

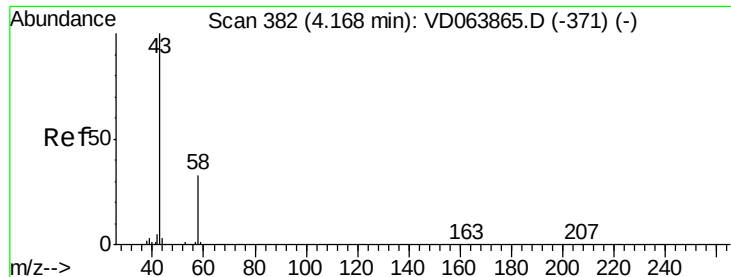


#13

Acrolein
 Concen: 1.455 ug/l
 RT: 3.91 min Scan# 339
 Delta R.T. -0.01 min
 Lab File: VD064049.D
 Acq: 24 Oct 2019 16:49

Tgt Ion: 56 Resp: 64
 Ion Ratio Lower Upper
 56 100
 55 0.0 53.0 79.6#





#16

Acetone

Concen: 1.692 ug/l

RT: 4.18 min Scan# 384

Delta R.T. 0.01 min

Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

Instrument :

MSVOA_D

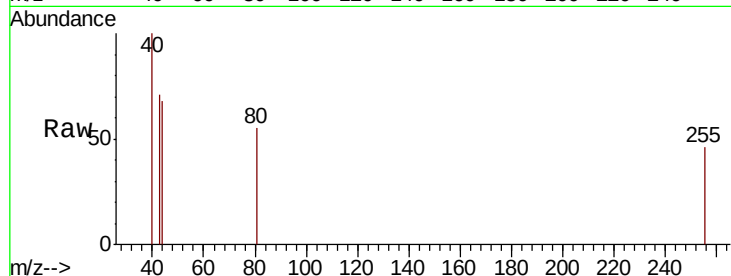
ClientSampleId :

Tot Ion: 43 Resp: 217

Ion Ratio Lower Upper

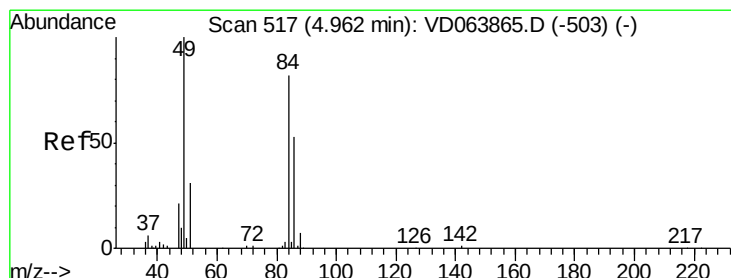
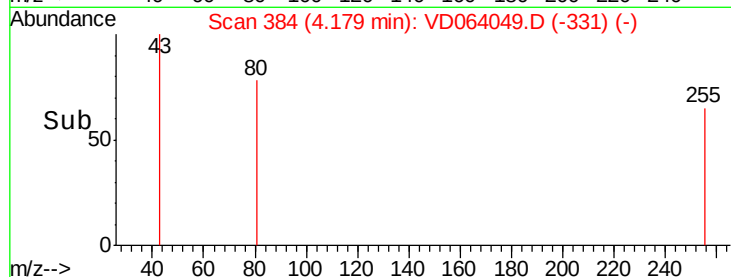
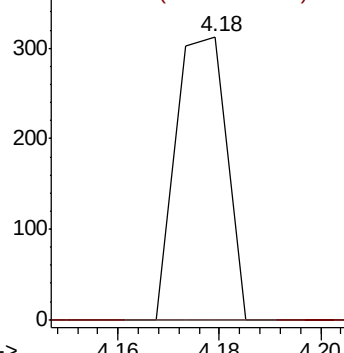
43 100

58 0.0 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# 517

Delta R.T. 0.00 min

Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

Tgt Ion: 84 Resp: 221

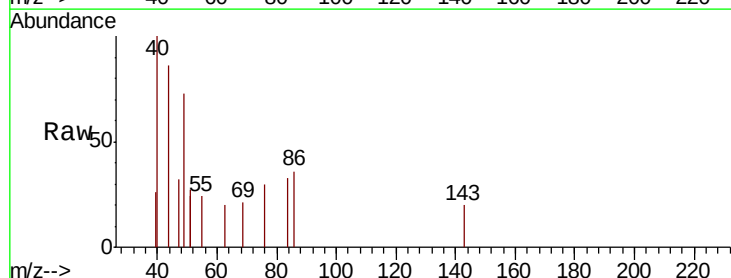
Ion Ratio Lower Upper

84 100

49 223.0 97.3 145.9#

51 154.4 30.1 45.1#

86 109.2 51.4 77.2#

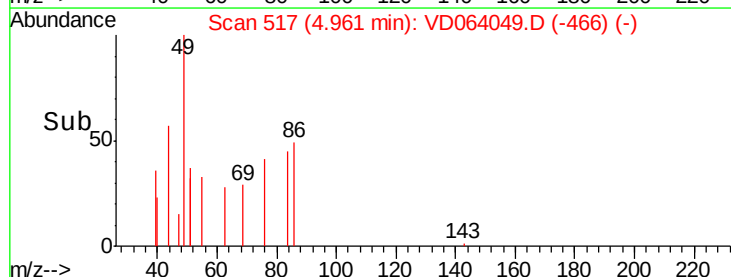
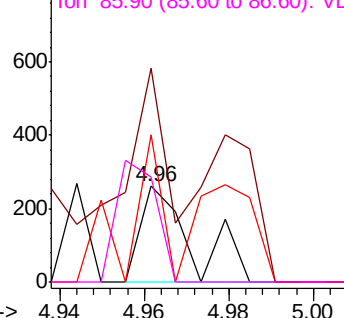


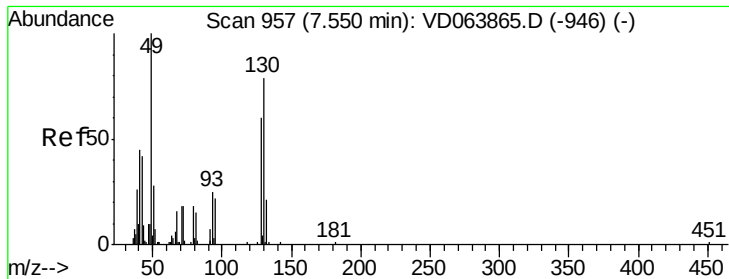
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#28

Bromochloromethane

Concen: 2.041 ug/l

RT: 7.56 min Scan# 959

Delta R.T. 0.01 min

Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

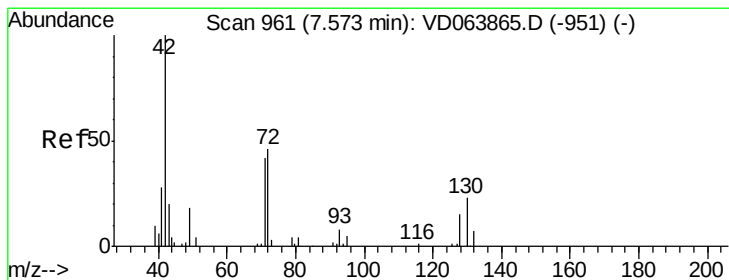
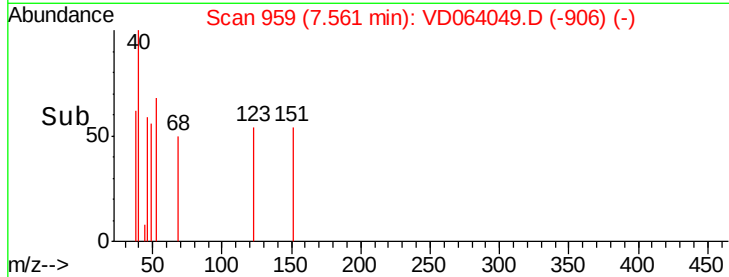
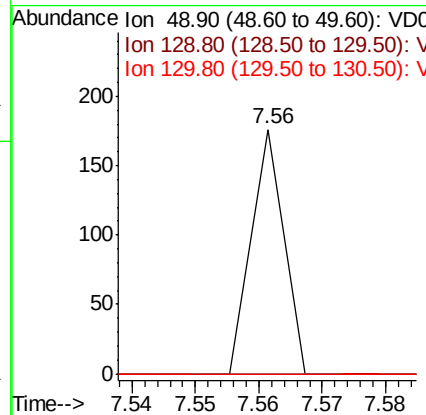
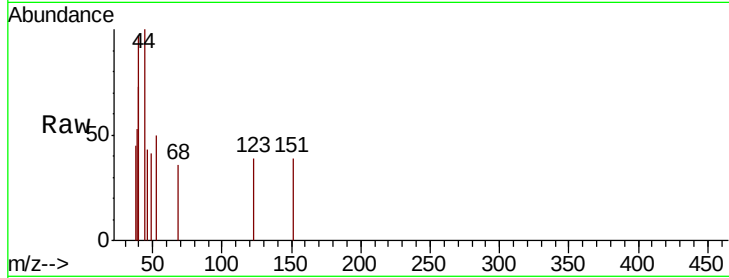
Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 49 Resp: 62

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.6
130	0.0	66.8	100.2#



#29

Tetrahydrofuran

Concen: 1.071 ug/l

RT: 7.52 min Scan# 952

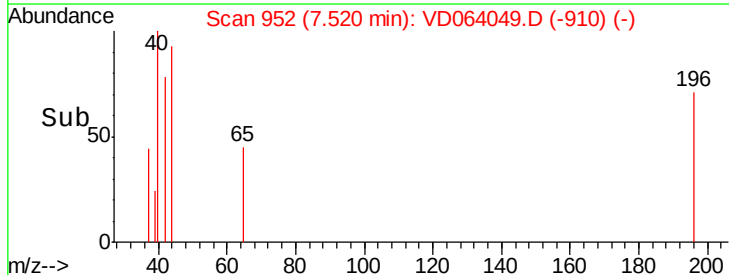
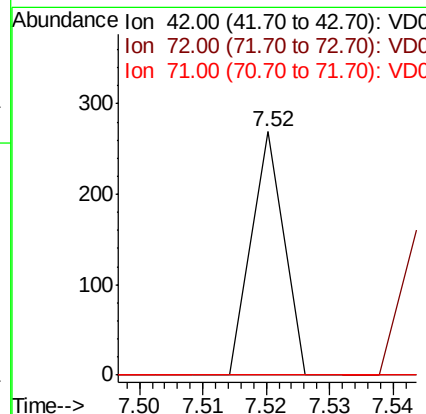
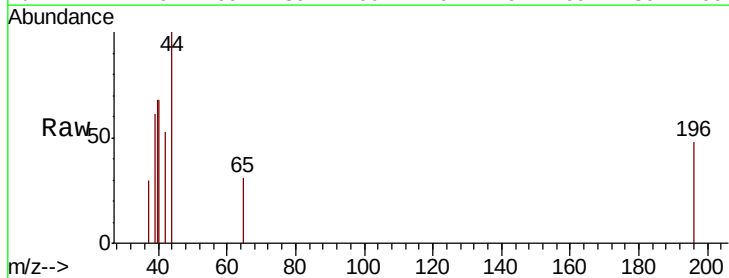
Delta R.T. -0.05 min

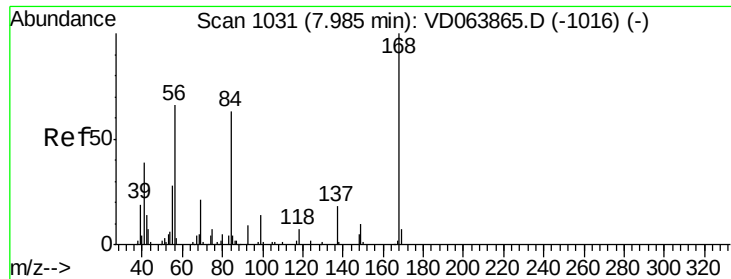
Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

Tgt Ion: 42 Resp: 95

Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.6	56.4#
71	0.0	35.0	52.6#

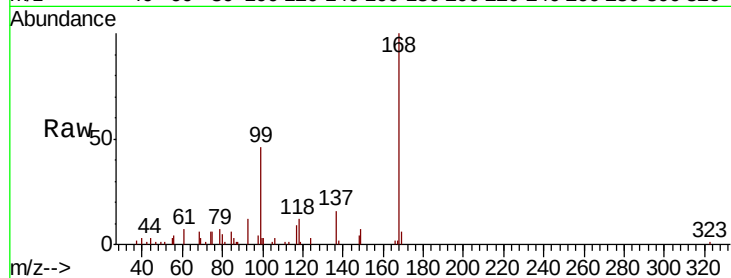




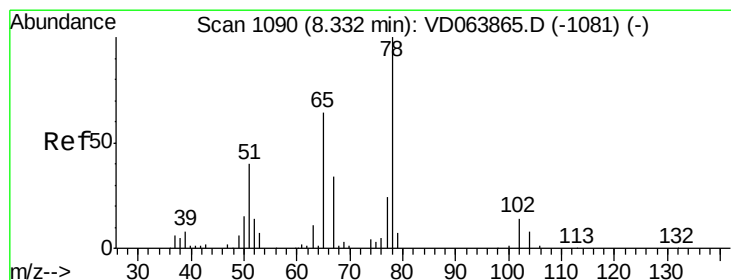
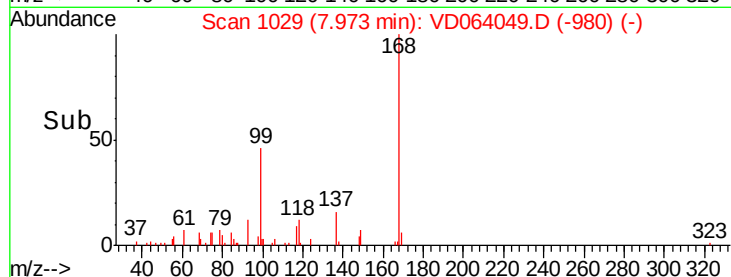
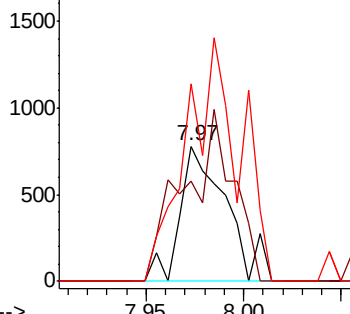
#31
Cyclohexane
Concen: Below Cal
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD064049.D
Acq: 24 Oct 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 1278
Ion Ratio Lower Upper
56 100
69 74.3 25.0 37.4#
84 146.5 76.3 114.5#

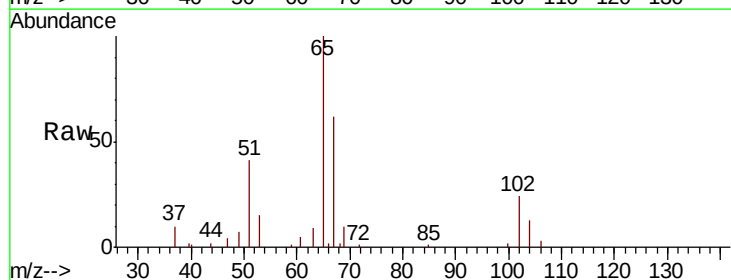


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

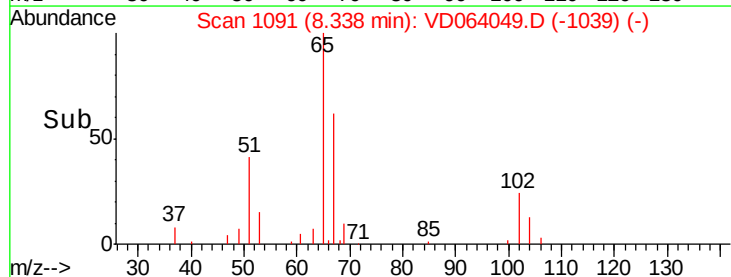
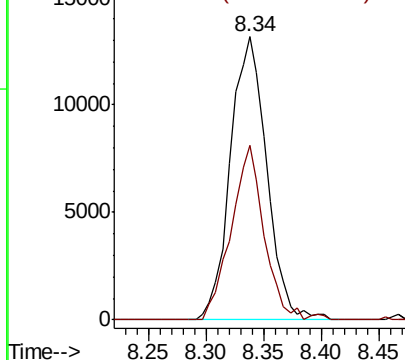


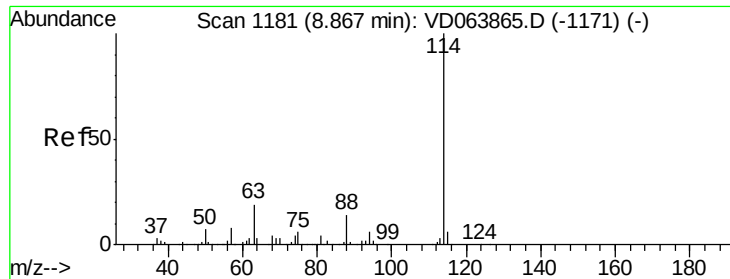
#33
1,2-Dichloroethane-d4
Concen: 58.334 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD064049.D
Acq: 24 Oct 2019 16:49

Tgt Ion: 65 Resp: 28730
Ion Ratio Lower Upper
65 100
67 55.8 0.0 106.4



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

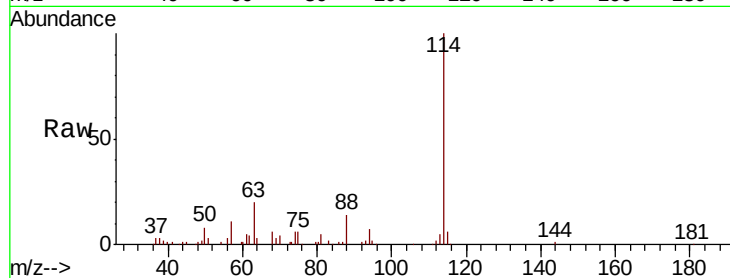




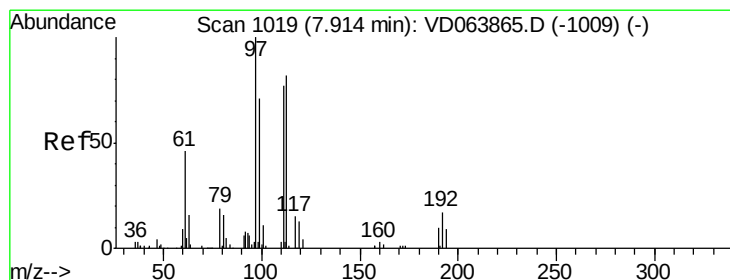
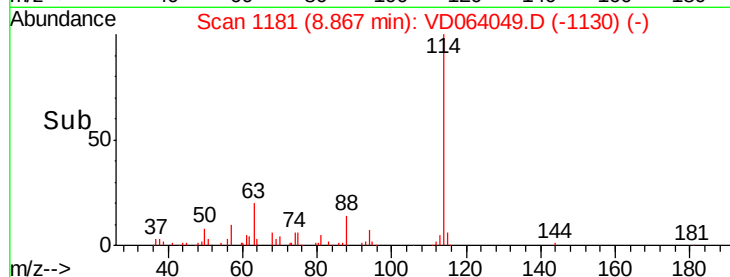
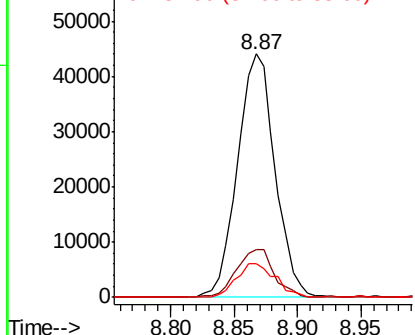
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064049.D
 Acq: 24 Oct 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.4
88	13.7	0.0	27.4

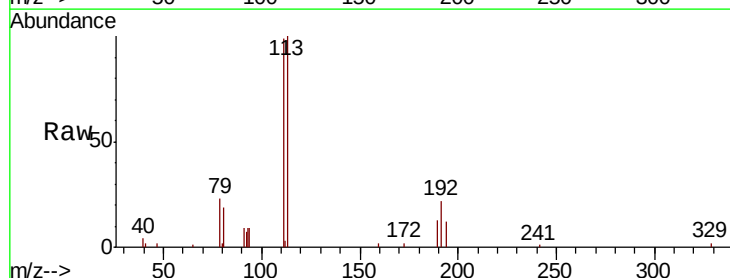


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

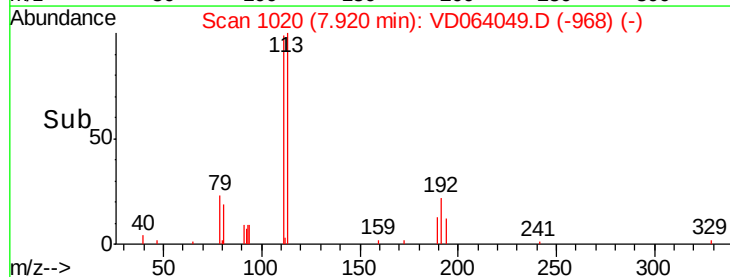
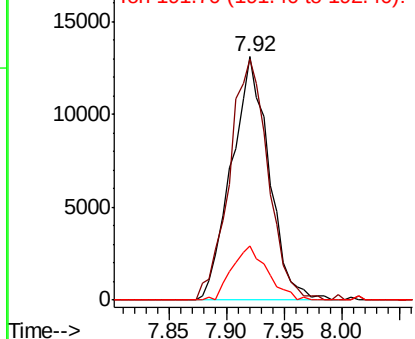


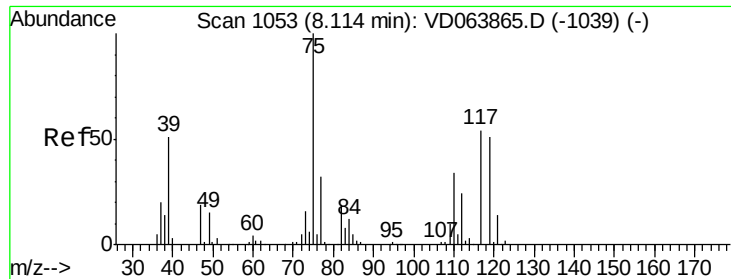
#35
 Dibromofluoromethane
 Concen: 53.798 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD064049.D
 Acq: 24 Oct 2019 16:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.6	123.8
192	20.8	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: 5.464 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.12 min

Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

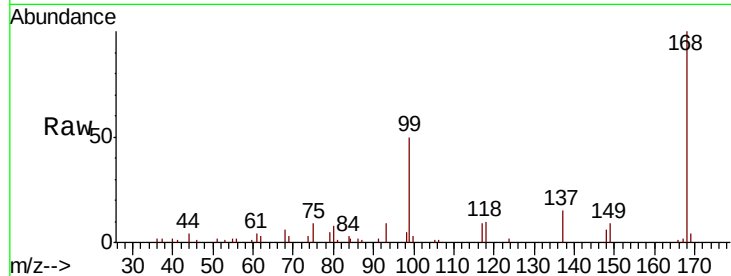
Tot Ion: 75 Resp: 4518

Ion Ratio Lower Upper

75 100

110 3.7 17.4 52.3#

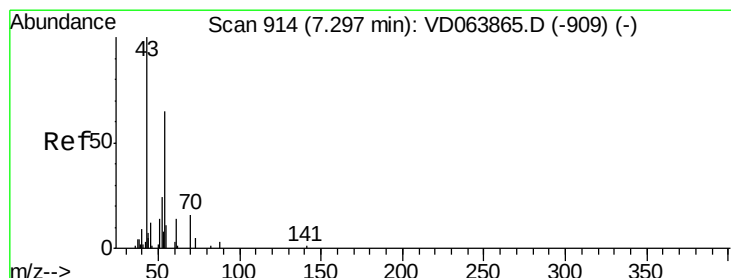
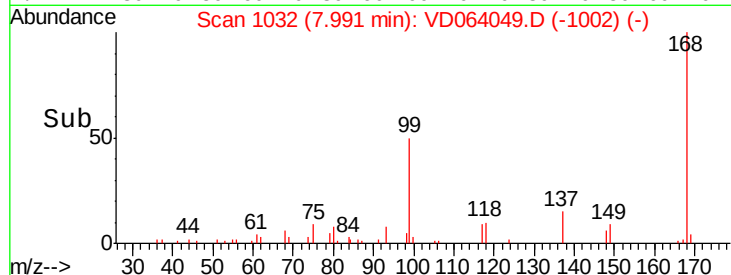
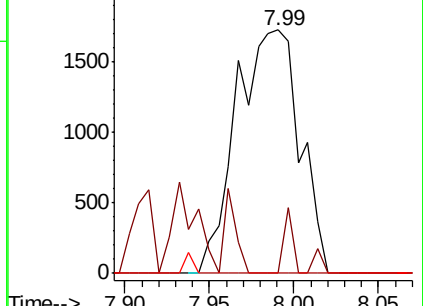
77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: Below Cal

RT: 7.23 min Scan# 902

Delta R.T. -0.07 min

Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

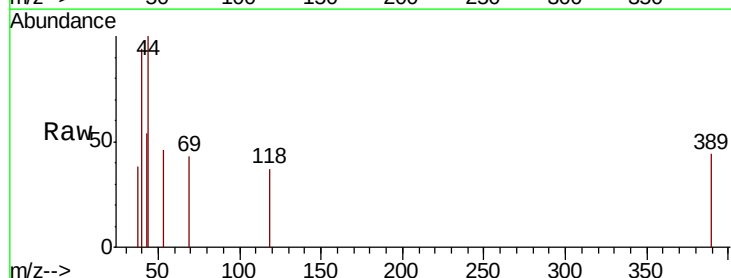
Tgt Ion: 43 Resp: 78

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

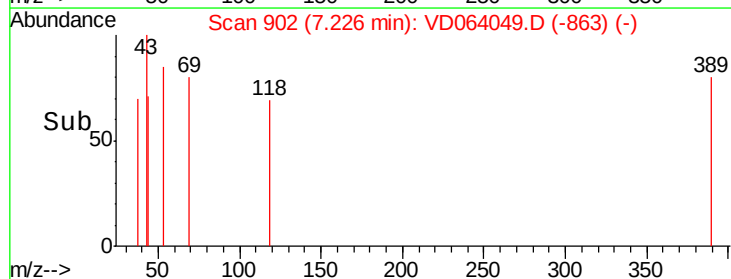
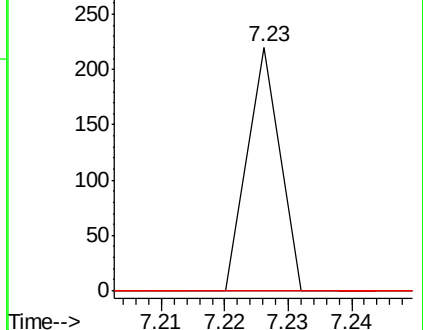
70 0.0 8.2 12.4#

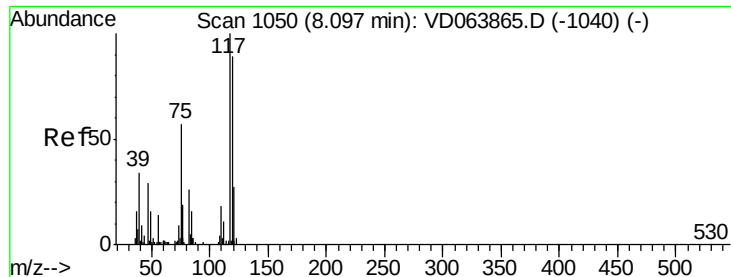


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.483 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

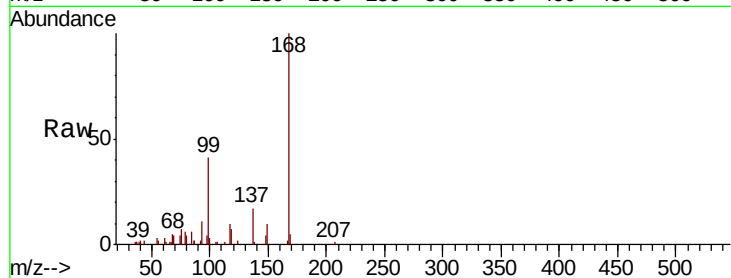
Tot Ion:117 Resp: 5417

Ion Ratio Lower Upper

117 100

119 0.0 70.8 106.2#

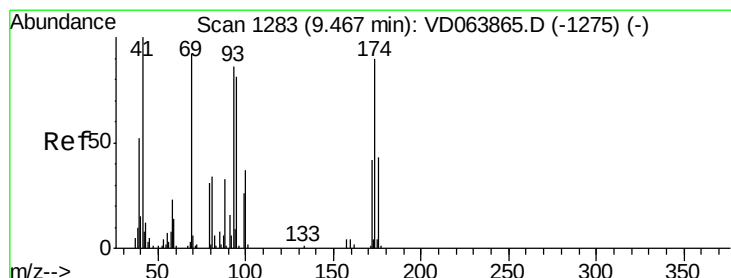
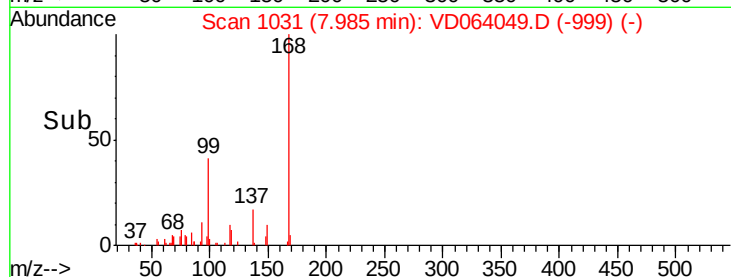
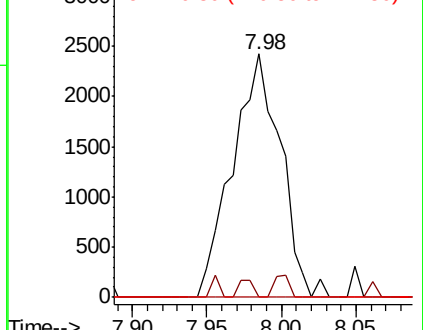
121 0.0 21.4 32.0#



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: 14.194 ug/l

RT: 9.19 min Scan# 1236

Delta R.T. -0.28 min

Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

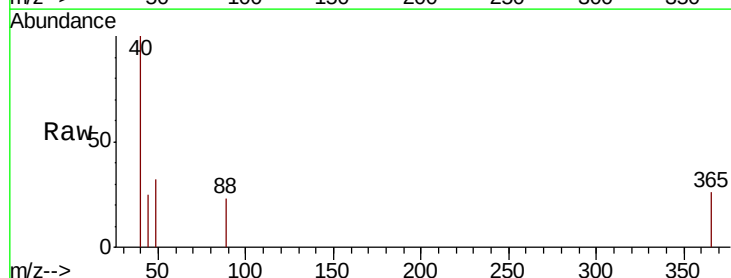
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 107.8 27.6 41.4#

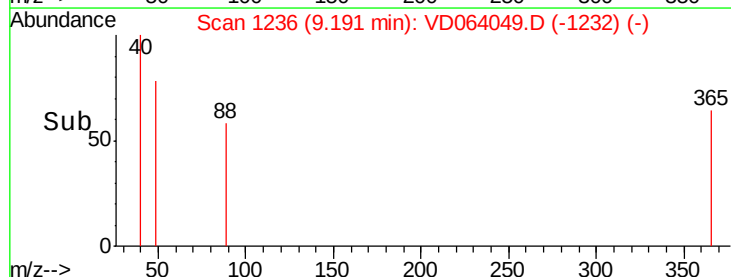
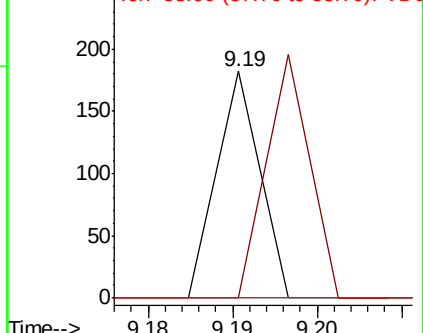
58 0.0 54.1 81.1#

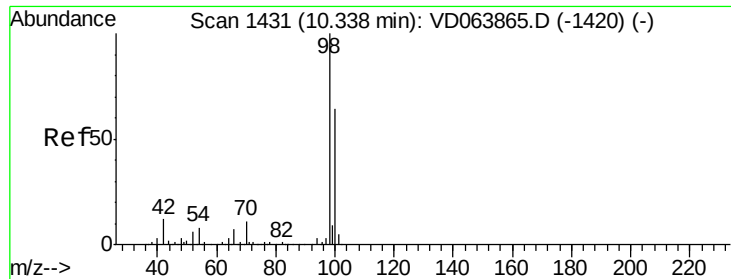


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

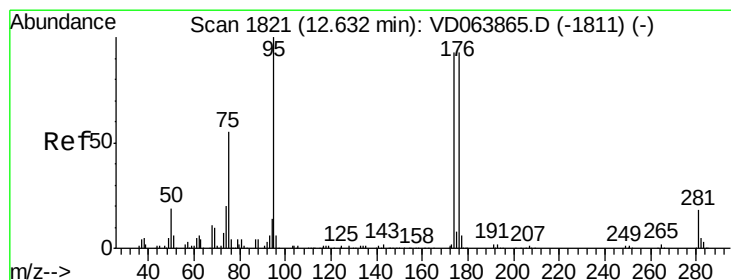
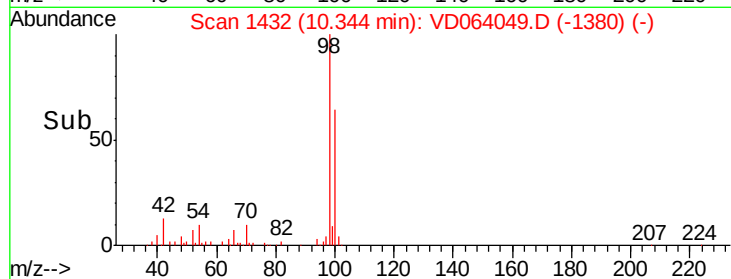
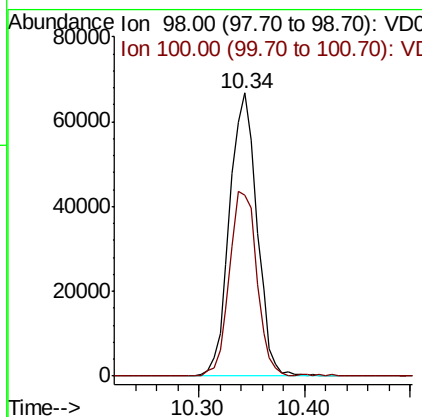
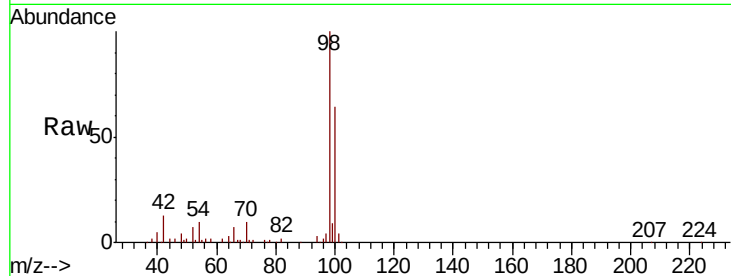




#50
Toluene-d8
Concen: 53.373 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064049.D
Acq: 24 Oct 2019 16:49

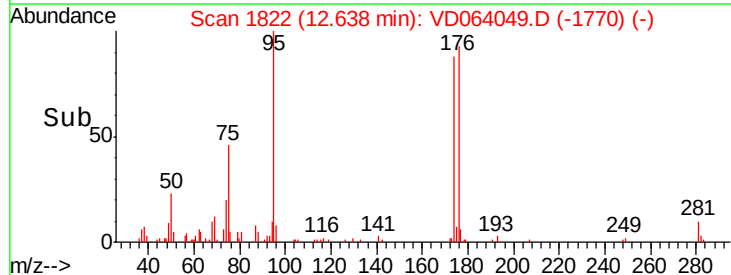
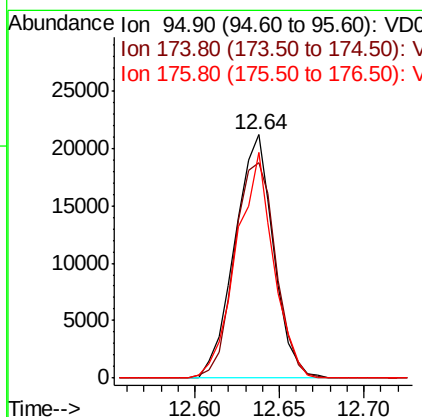
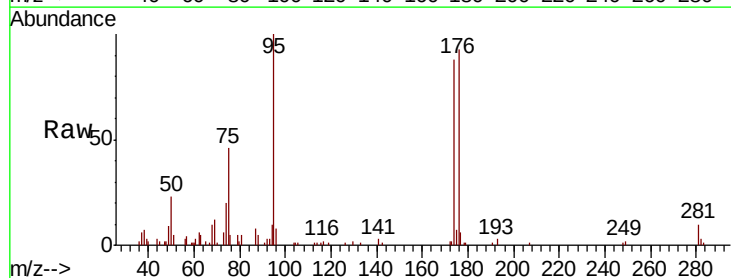
Instrument :
MSVOA_D
ClientSampleId :

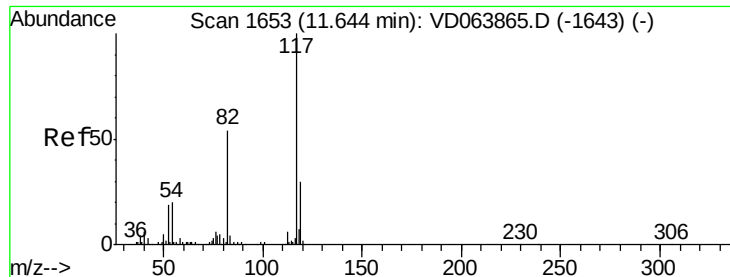
Tot Ion: 98 Resp: 119733
Ion Ratio Lower Upper
98 100
100 65.2 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 43.368 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD064049.D
Acq: 24 Oct 2019 16:49

Tgt Ion: 95 Resp: 33808
Ion Ratio Lower Upper
95 100
174 94.6 0.0 186.4
176 89.0 0.0 184.2

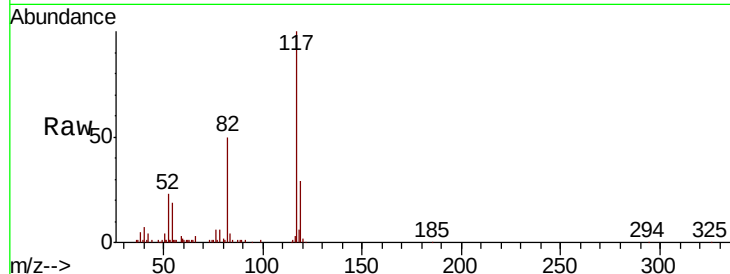




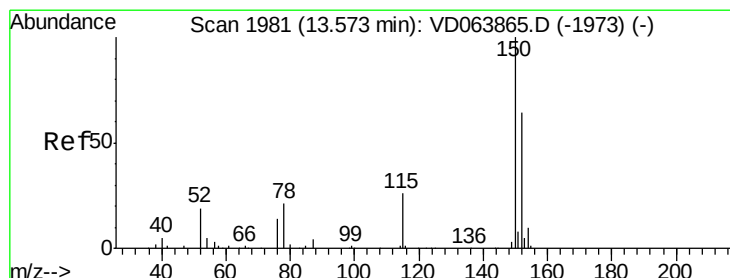
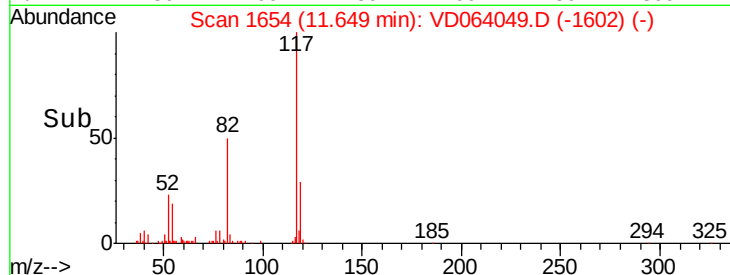
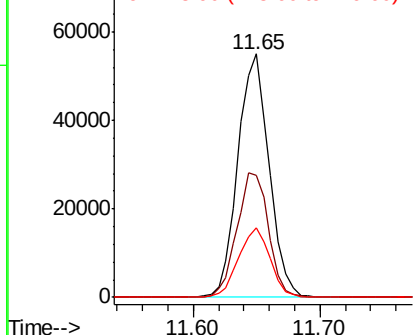
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD064049.D
Acq: 24 Oct 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 93885
Ion Ratio Lower Upper
117 100
82 50.0 42.8 64.2
119 28.8 24.4 36.6

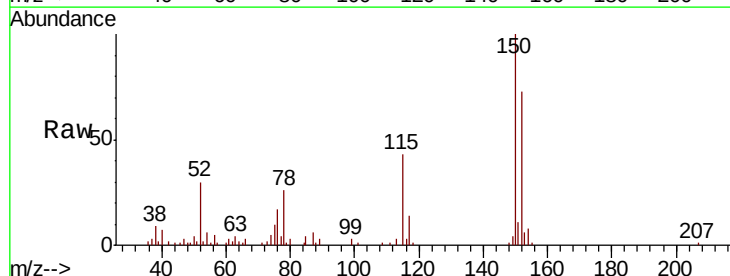


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VD
Ion 118.90 (118.60 to 119.60): V

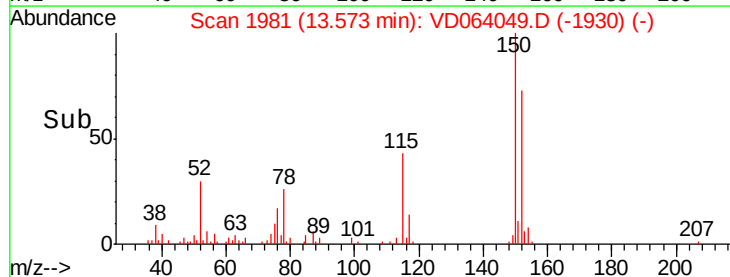
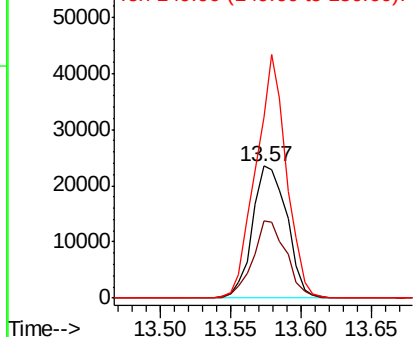


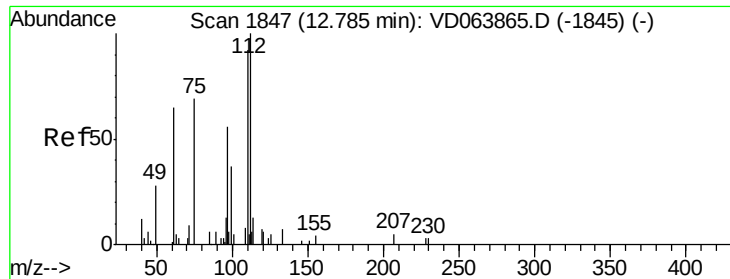
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VD064049.D
Acq: 24 Oct 2019 16:49

Tgt Ion:152 Resp: 40574
Ion Ratio Lower Upper
152 100
115 56.7 25.9 77.7
150 162.8 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: 69.953 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

Instrument :

MSVOA_D

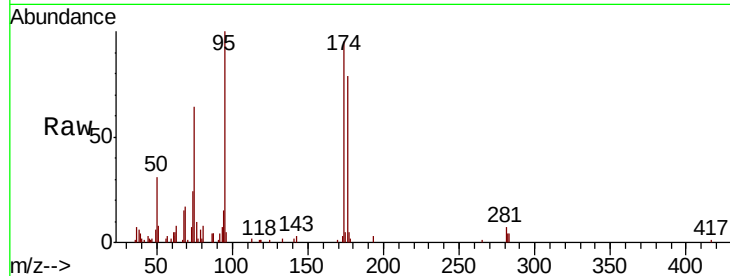
ClientSampled :

Tot Ion: 75 Resp: 19010

Ion Ratio Lower Upper

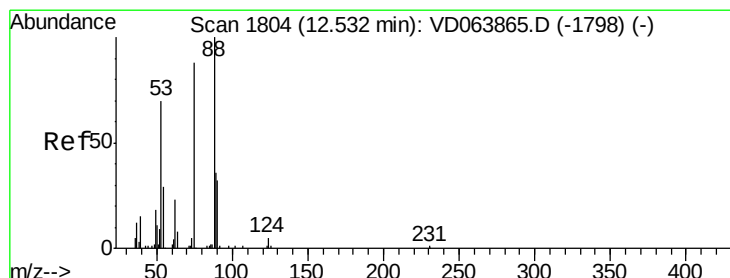
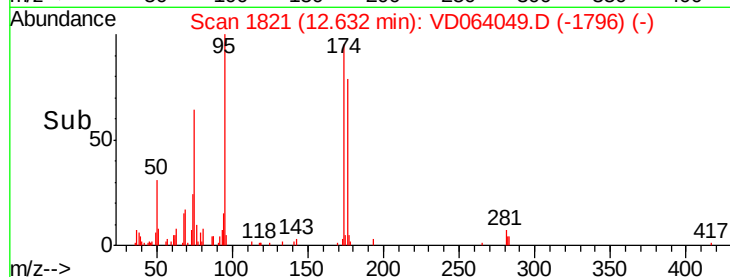
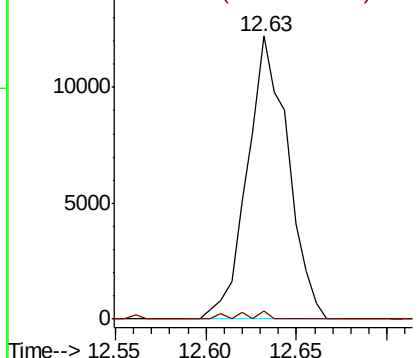
75 100

77 0.5 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: 123.789 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

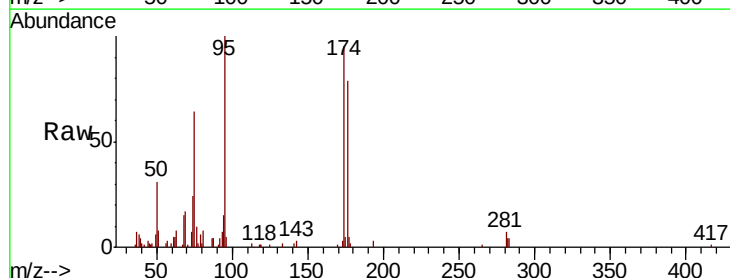
Tgt Ion: 75 Resp: 19010

Ion Ratio Lower Upper

75 100

53 0.3 75.0 112.6#

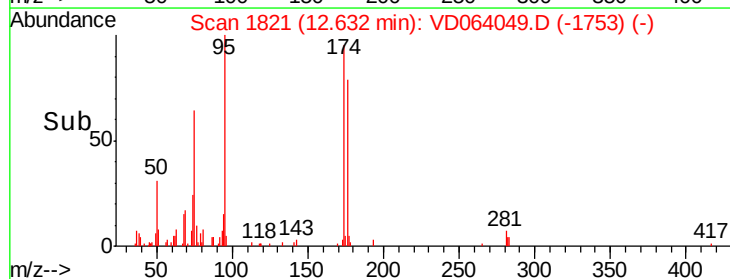
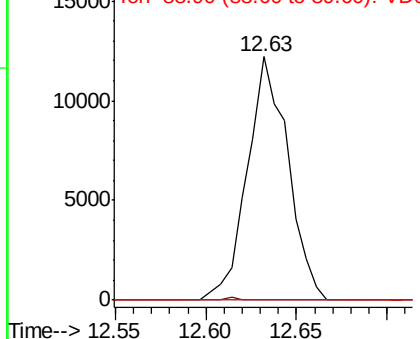
89 0.0 38.2 57.4#

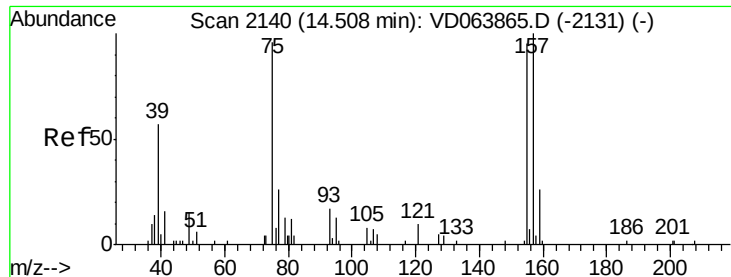


Abundance Ion 74.90 (74.60 to 75.60): VDC

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: 14.45 min Scan# 2130

Delta R.T. -0.06 min

Lab File: VD064049.D

Acq: 24 Oct 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

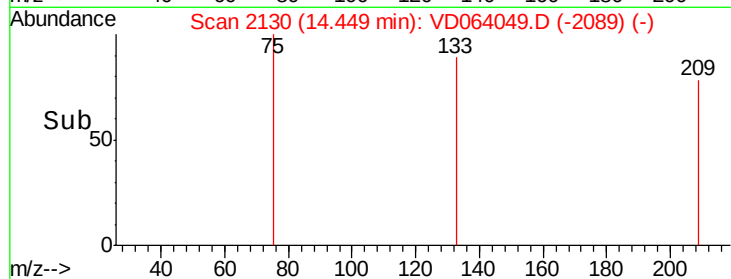
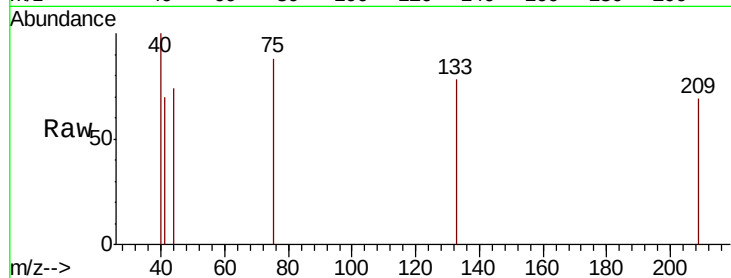
Tot Ion: 75 Resp: 105

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

