

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102419\
 Data File : VD064048.D
 Acq On : 24 Oct 2019 16:20
 Operator : VA/SY
 Sample : K5498-04RE
 Misc : 3.80G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 25 03:58:38 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	21666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	40815	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	43633	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	21909	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	19295	91.47	ug/l	0.00
Spiked Amount			Recovery	=	182.94%	
35) Dibromofluoromethane	7.91	113	14136	56.67	ug/l	0.00
Spiked Amount			Recovery	=	113.34%	
50) Toluene-d8	10.34	98	52038	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
62) 4-Bromofluorobenzene	12.64	95	17166	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	

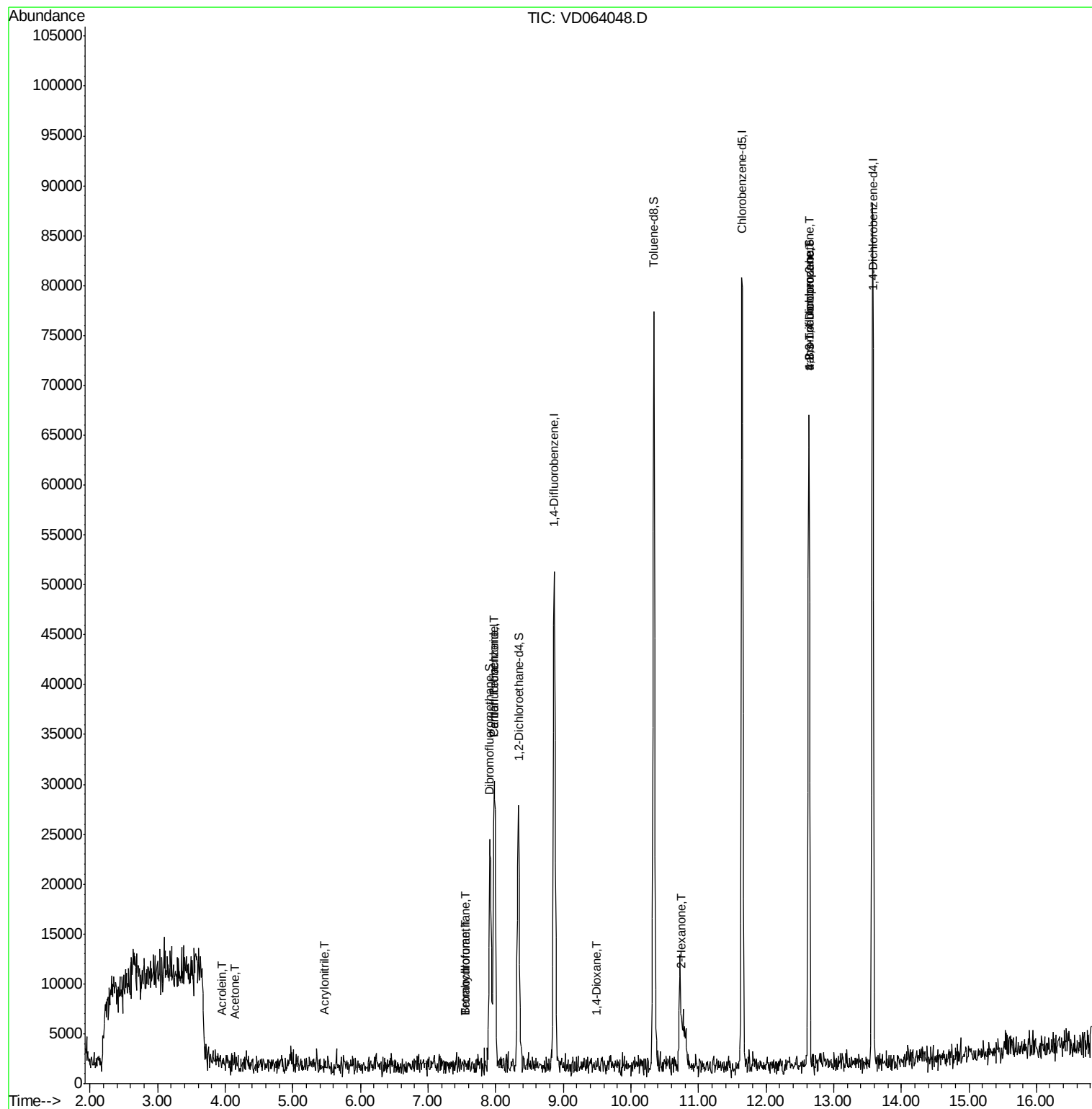
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	143	Below Cal	#	40
11) Tert butyl alcohol	5.17	59	56	Below Cal	#	71
13) Acrolein	3.96	56	74	3.928	ug/l	87
15) Acrylonitrile	5.47	53	65	1.399	ug/l #	58
16) Acetone	4.15	43	88	1.602	ug/l #	42
20) Methylene Chloride	4.95	84	229	Below Cal	#	54
28) Bromochloromethane	7.55	49	115	2.631	ug/l #	10
29) Tetrahydrofuran	7.56	42	129	3.396	ug/l #	31
31) Cyclohexane	7.97	56	872	Below Cal	#	56
37) Ethyl Acetate	7.34	43	70	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	2506	6.645	ug/l #	15
49) 1,4-Dioxane	9.48	88	55	27.029	ug/l #	24
59) 2-Hexanone	10.75	43	204	1.737	ug/l	68
76) 1,2,3-Trichloropropane	12.64	75	10331	70.403	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	10331	124.585	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.49	75	62	Below Cal	#	1

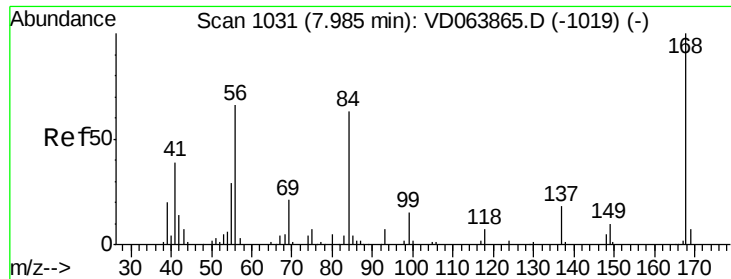
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1030

Delta R.T. -0.01 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

Instrument :

MSVOA_D

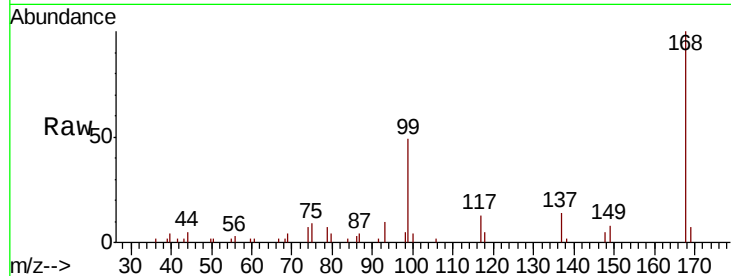
ClientSampleId :

Tot Ion:168 Resp: 21666

Ion Ratio Lower Upper

168 100

99 48.7 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

10000

8000

6000

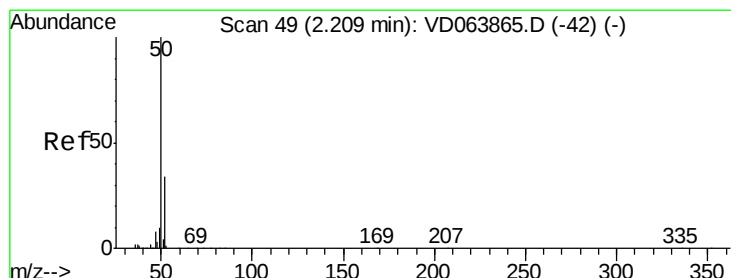
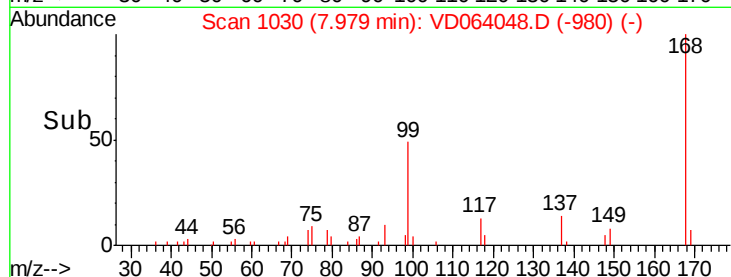
4000

2000

0

Time-->

7.90 7.95 8.00 8.05



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD064048.D

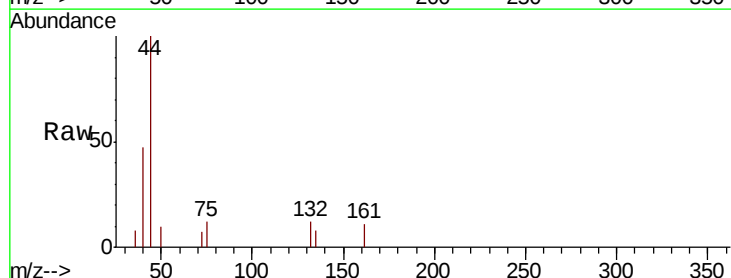
Acq: 24 Oct 2019 16:20

Tgt Ion: 50 Resp: 143

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

2.20

250

200

150

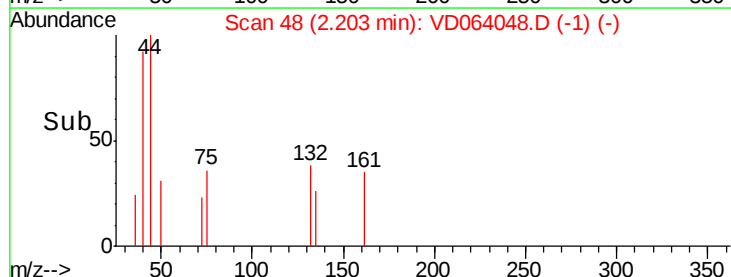
100

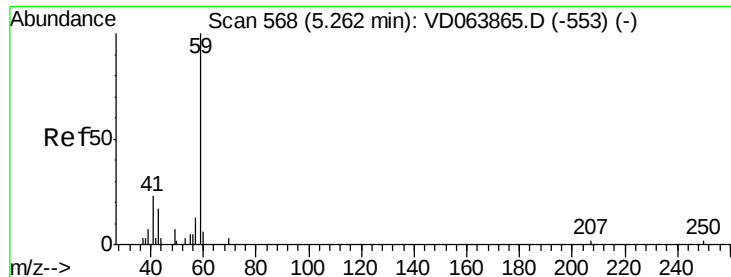
50

0

Time-->

2.18 2.20 2.22



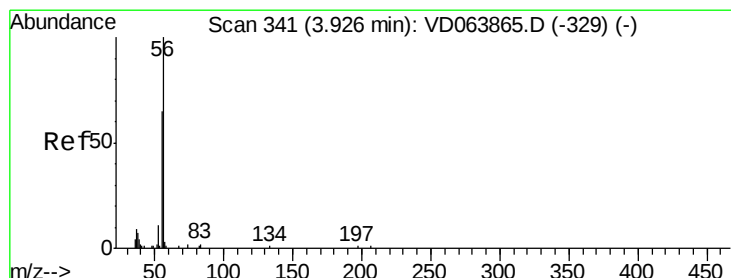
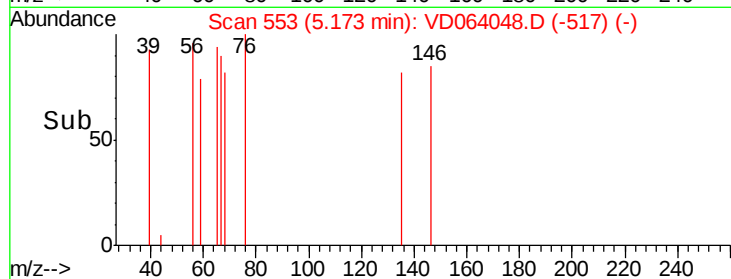
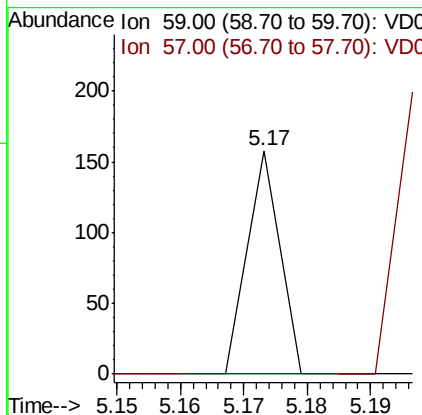
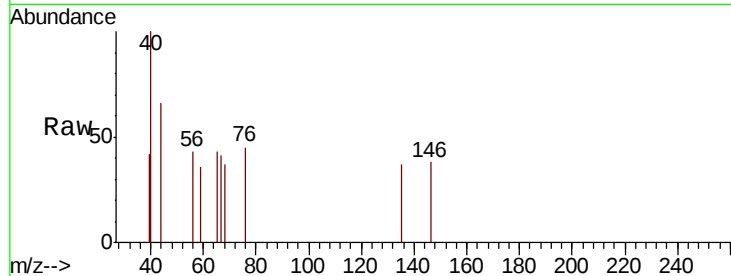


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.17 min Scan# 553
 Delta R.T. -0.09 min
 Lab File: VD064048.D
 Acq: 24 Oct 2019 16:20

Instrument :
 MSVOA_D
 ClientSampled :

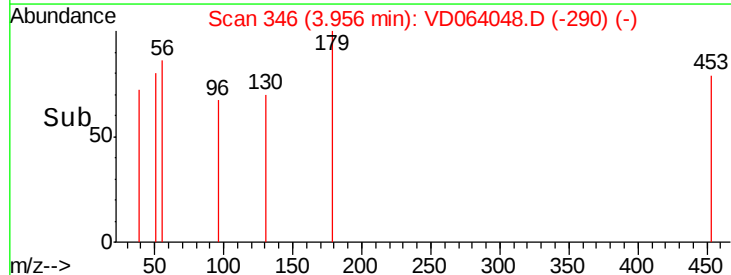
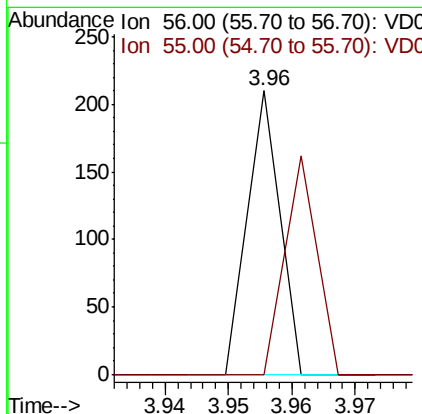
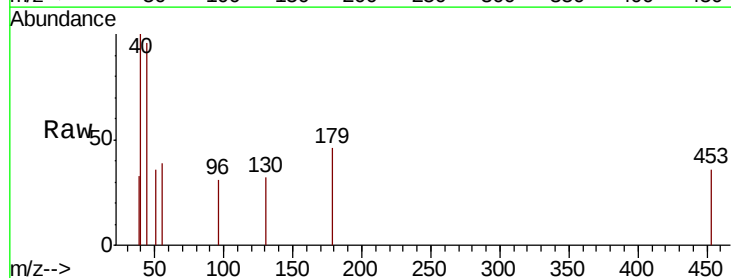
Tot Ion: 59 Resp: 56
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

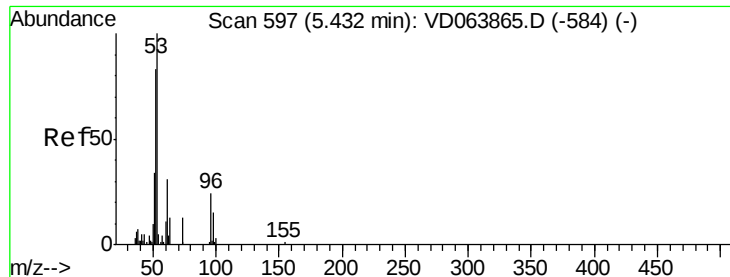


#13

Acrolein
 Concen: 3.928 ug/l
 RT: 3.96 min Scan# 346
 Delta R.T. 0.03 min
 Lab File: VD064048.D
 Acq: 24 Oct 2019 16:20

Tgt Ion: 56 Resp: 74
 Ion Ratio Lower Upper
 56 100
 55 77.0 53.0 79.6





#15

Acrylonitrile

Concen: 1.399 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.03 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

Instrument :
MSVOA_D
ClientSampled :

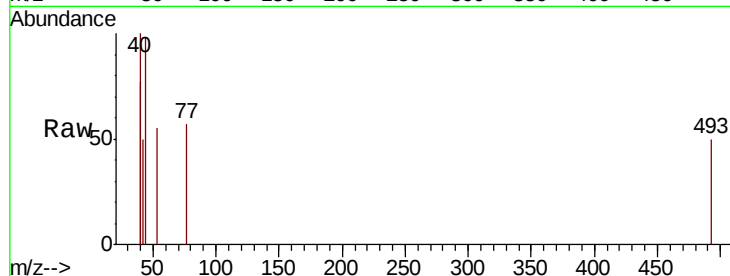
Tot Ion: 53 Resp: 65

Ion Ratio Lower Upper

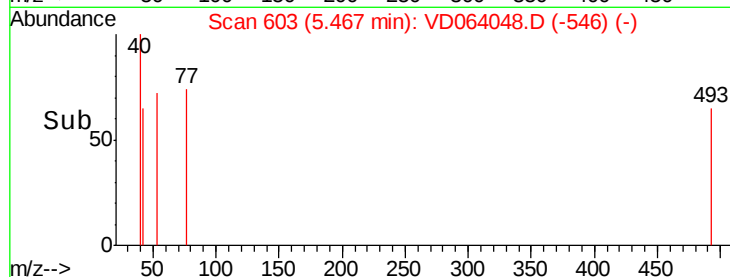
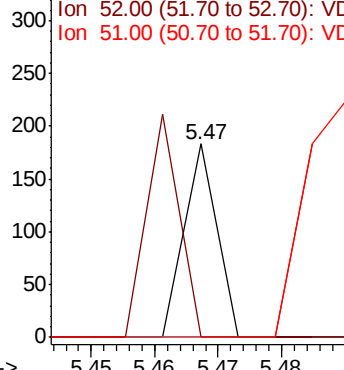
53 100

52 113.8 67.3 100.9#

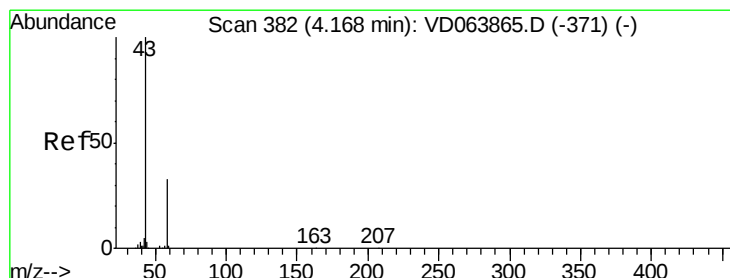
51 0.0 30.5 45.7#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



Time-->



#16

Acetone

Concen: 1.602 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.02 min

Lab File: VD064048.D

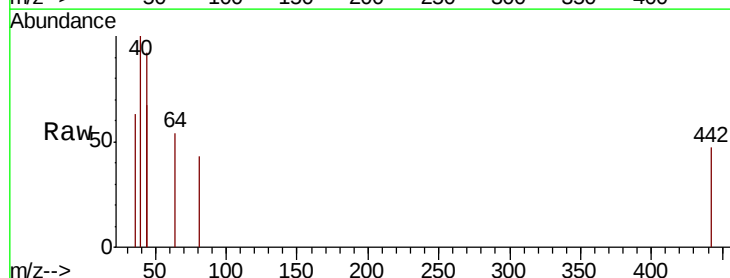
Acq: 24 Oct 2019 16:20

Tgt Ion: 43 Resp: 88

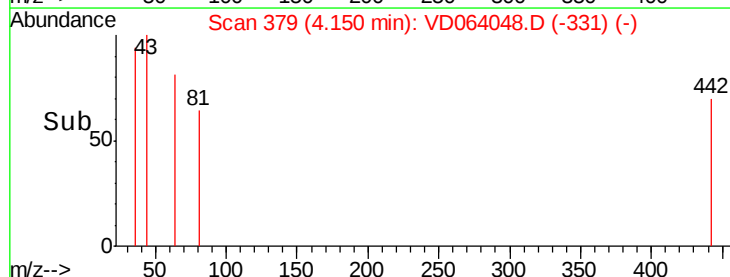
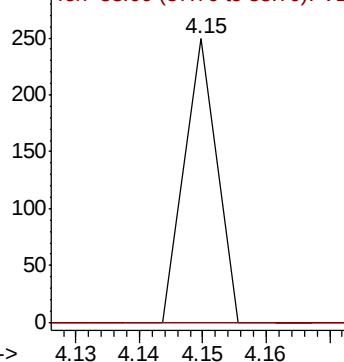
Ion Ratio Lower Upper

43 100

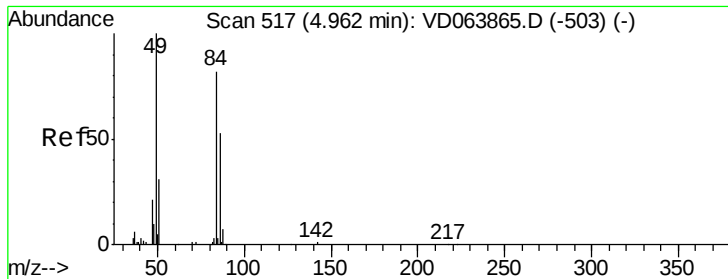
58 0.0 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC



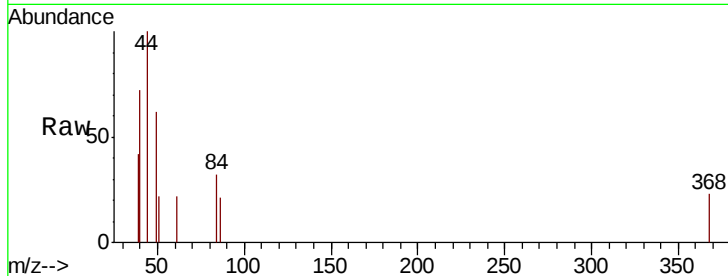
Time-->



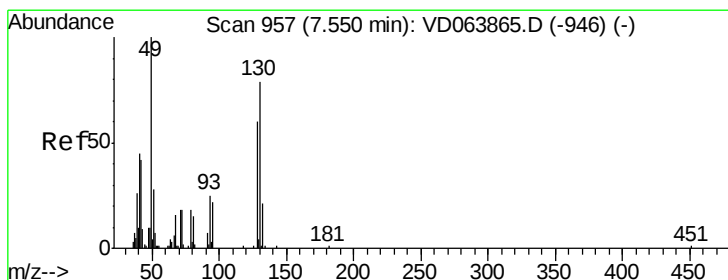
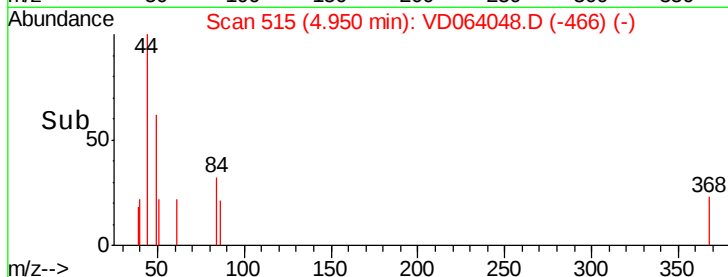
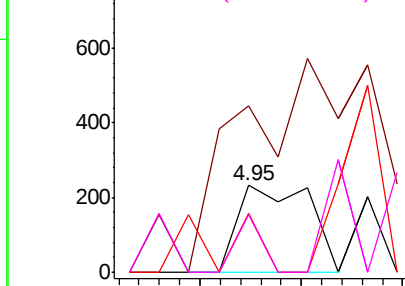
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.95 min Scan# 515
Delta R.T. -0.01 min
Lab File: VD064048.D
Acq: 24 Oct 2019 16:20

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 229
Ion Ratio Lower Upper
84 100
49 192.7 97.3 145.9#
51 1.7 30.1 45.1#
86 66.8 51.4 77.2

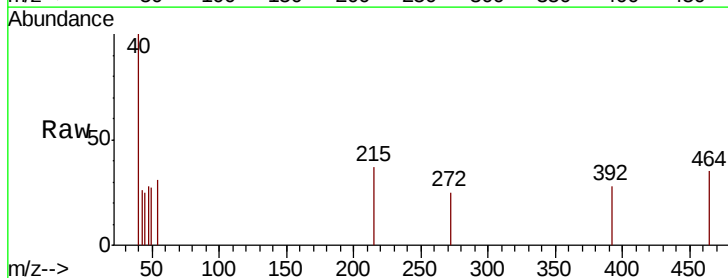


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

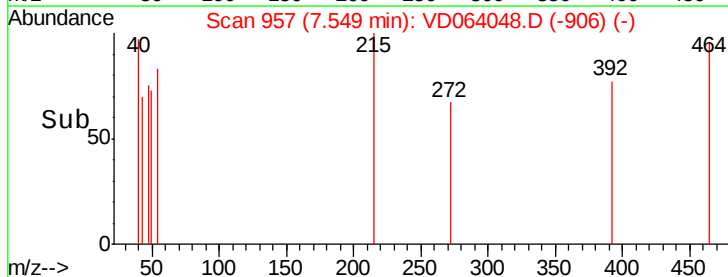
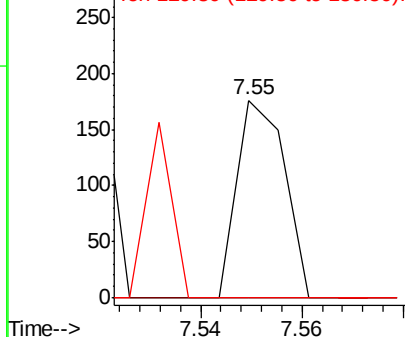


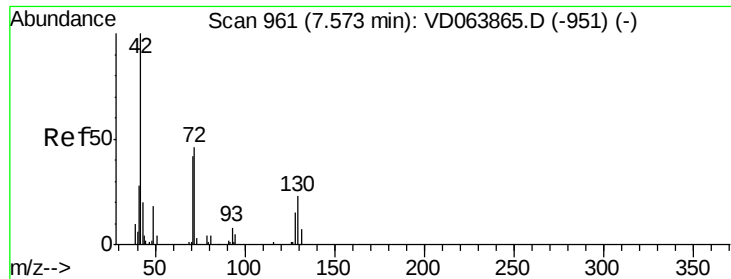
#28
Bromochloromethane
Concen: 2.631 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD064048.D
Acq: 24 Oct 2019 16:20

Tgt Ion: 49 Resp: 115
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 0.0 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

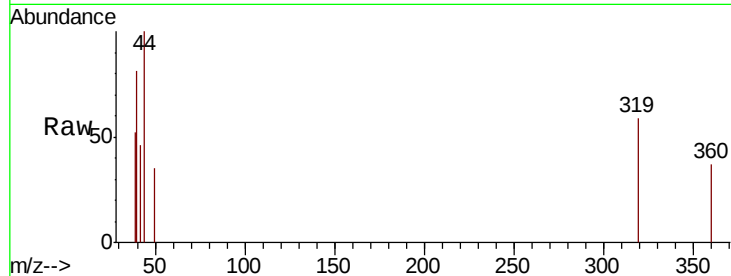




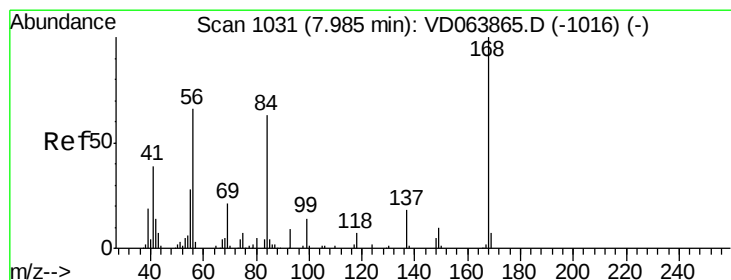
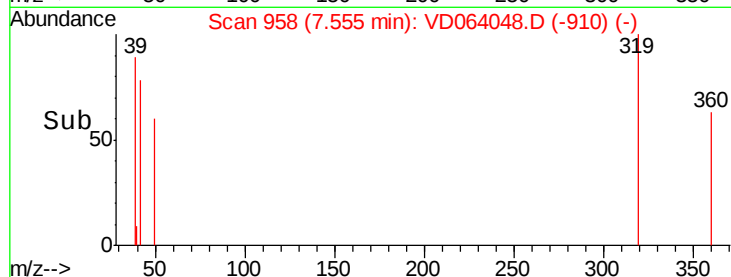
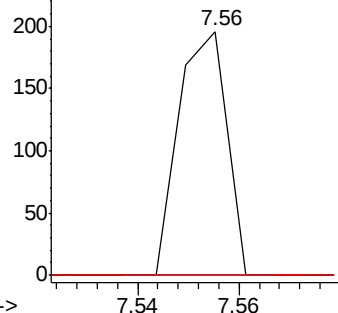
#29
Tetrahydrofuran
Concen: 3.396 ug/l
RT: 7.56 min Scan# 958
Delta R.T. -0.02 min
Lab File: VD064048.D
Acq: 24 Oct 2019 16:20

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 42 Resp: 129
Ion Ratio Lower Upper
42 100
72 0.0 37.6 56.4#
71 0.0 35.0 52.6#

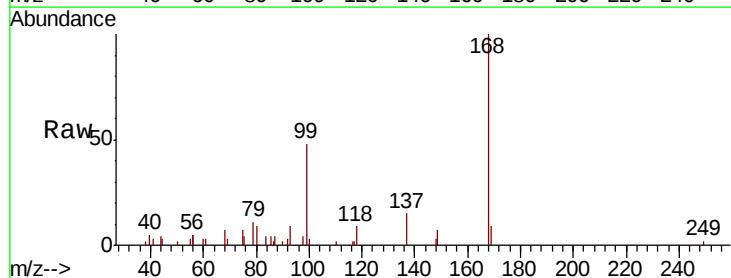


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

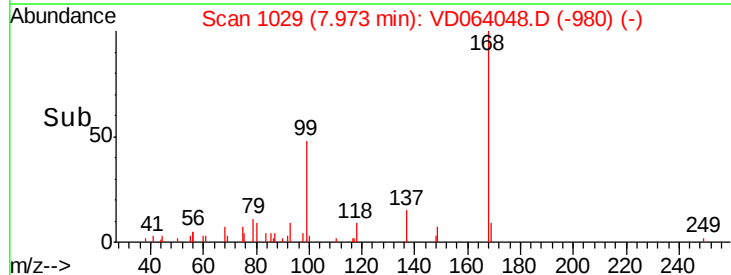
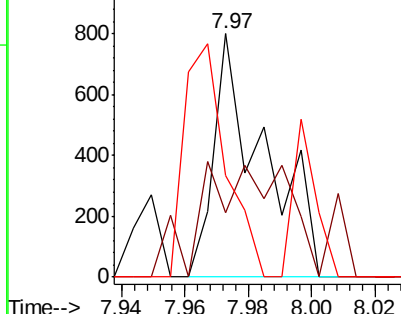


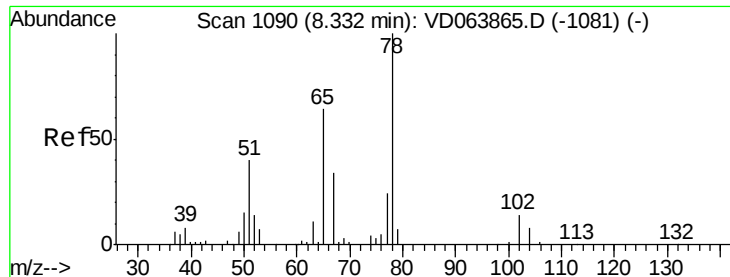
#31
Cyclohexane
Concen: Below Cal
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD064048.D
Acq: 24 Oct 2019 16:20

Tgt Ion: 56 Resp: 872
Ion Ratio Lower Upper
56 100
69 26.6 25.0 37.4
84 41.6 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: 91.474 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

Instrument :

MSVOA_D

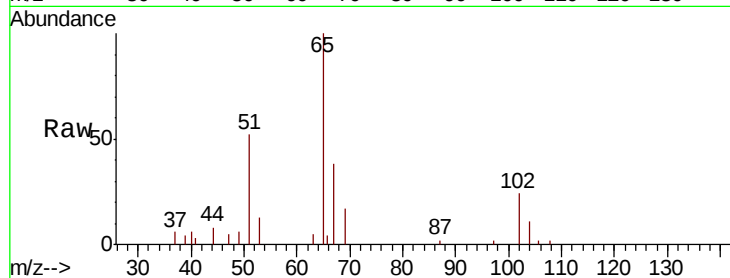
ClientSampled :

Tot Ion: 65 Resp: 19295

Ion Ratio Lower Upper

65 100

67 52.8 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

10000

8000

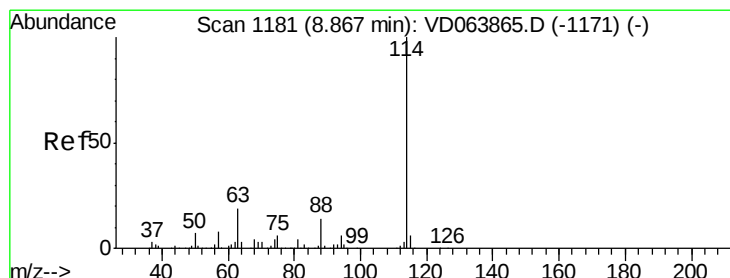
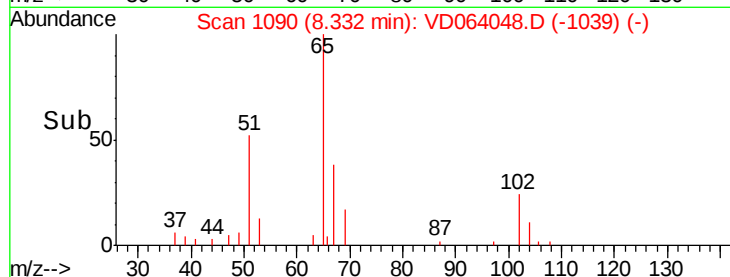
6000

4000

2000

0

Time--> 8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

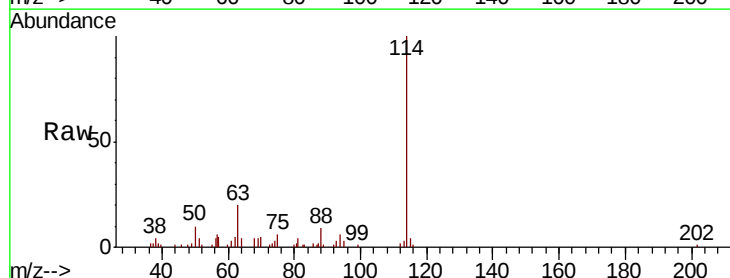
Tgt Ion: 114 Resp: 40815

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.4

88 9.3 0.0 27.4



Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

25000

20000

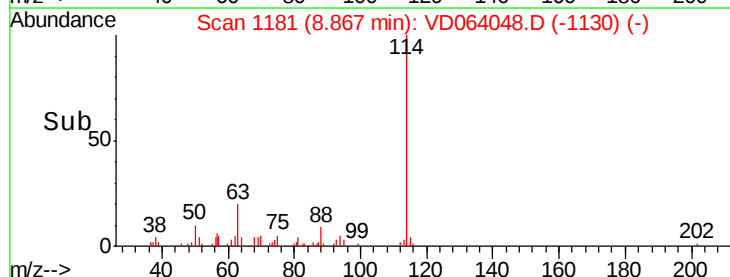
15000

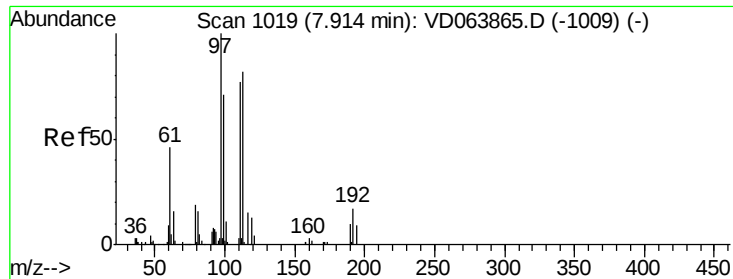
10000

5000

0

Time--> 8.80 8.90





#35

Dibromofluoromethane

Concen: 56.673 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.00 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

Instrument :

MSVOA_D

ClientSampleId :

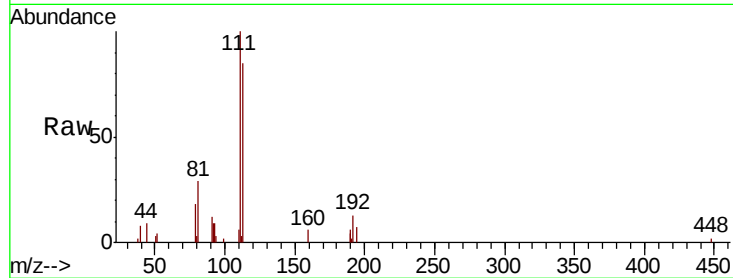
Tot Ion:113 Resp: 14136

Ion Ratio Lower Upper

113 100

111 114.2 82.6 123.8

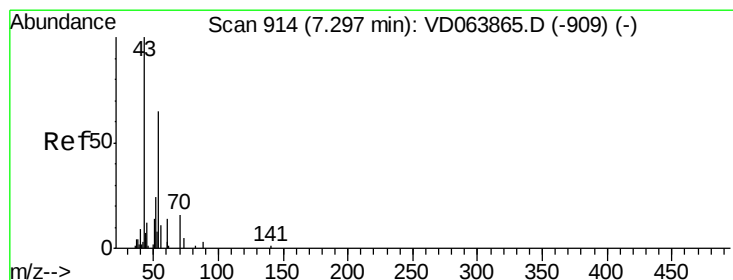
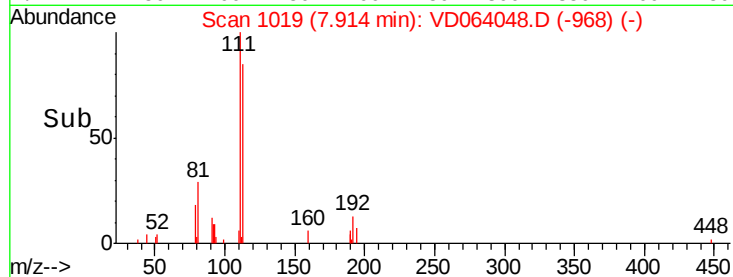
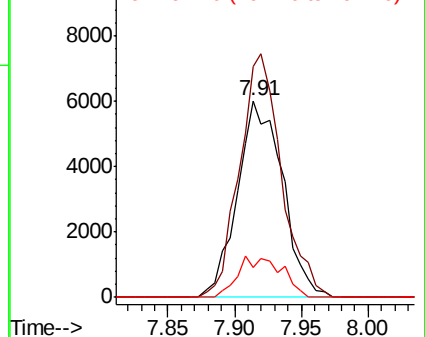
192 20.0 17.1 25.7



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



#37

Ethyl Acetate

Concen: Below Cal

RT: 7.34 min Scan# 922

Delta R.T. 0.05 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

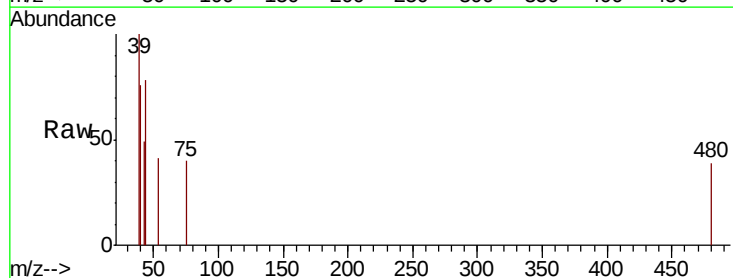
Tgt Ion: 43 Resp: 70

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

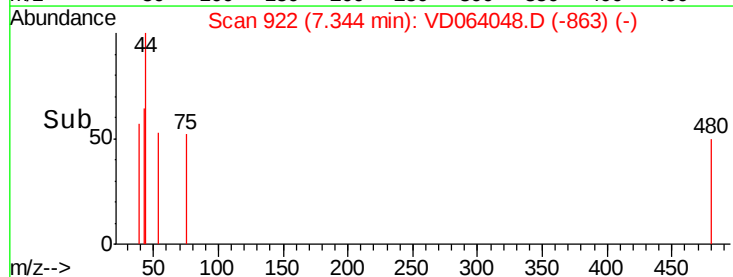
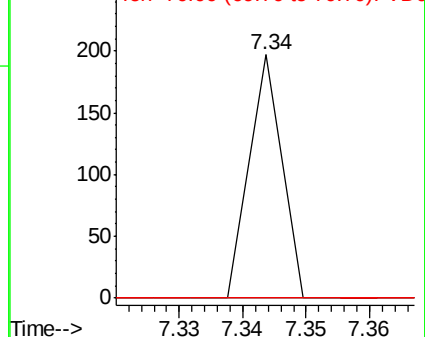
70 0.0 8.2 12.4#

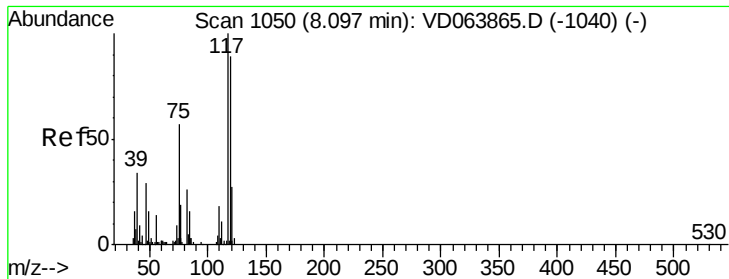


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.645 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

Instrument :

MSVOA_D

ClientSampleId :

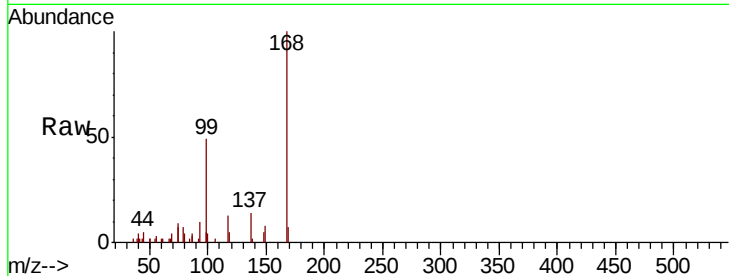
Tot Ion:117 Resp: 2506

Ion Ratio Lower Upper

117 100

119 0.0 70.8 106.2#

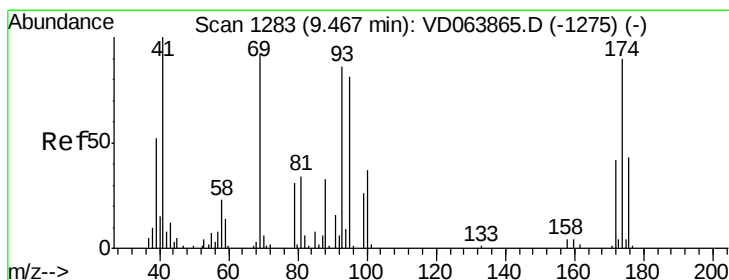
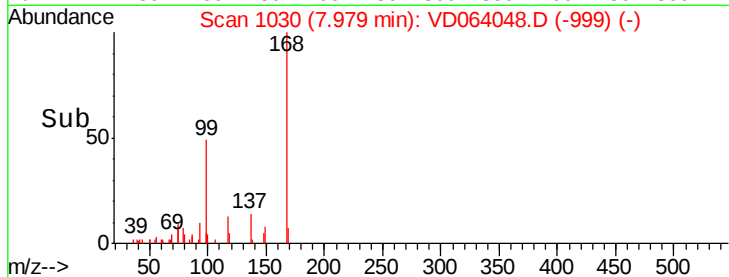
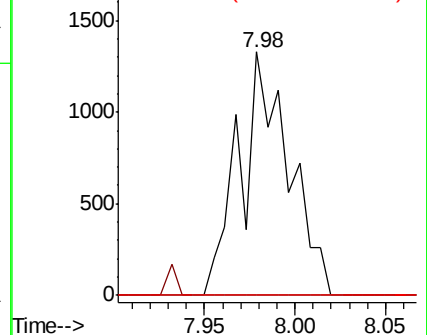
121 0.0 21.4 32.0#



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: 27.029 ug/l

RT: 9.48 min Scan# 1286

Delta R.T. 0.02 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

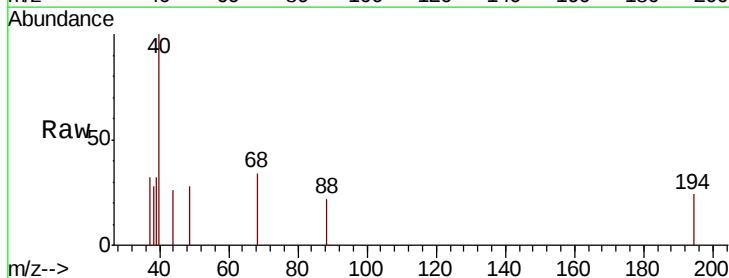
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 0.0 27.6 41.4#

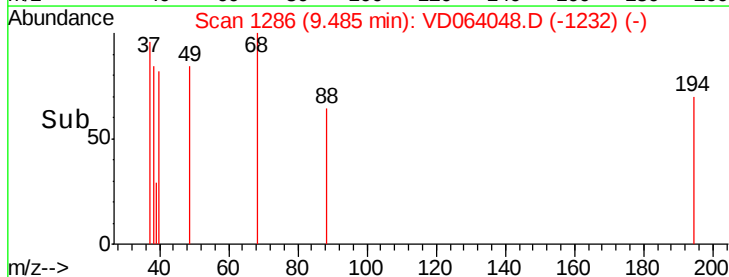
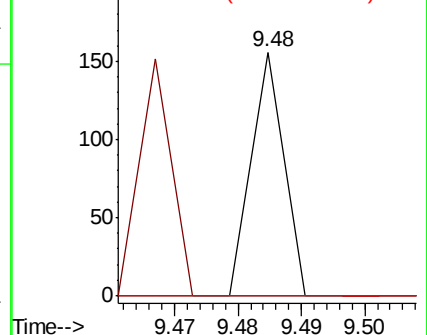
58 0.0 54.1 81.1#

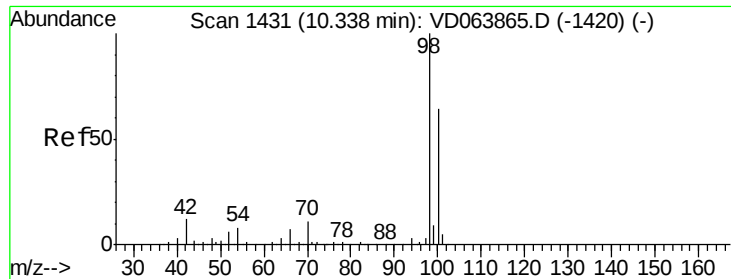


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 51.400 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

Instrument :

MSVOA_D

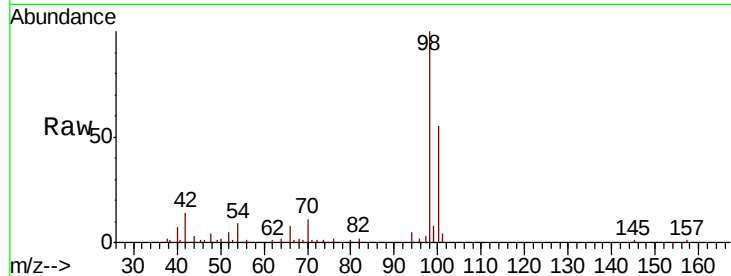
ClientSampleId :

Tot Ion: 98 Resp: 52038

Ion Ratio Lower Upper

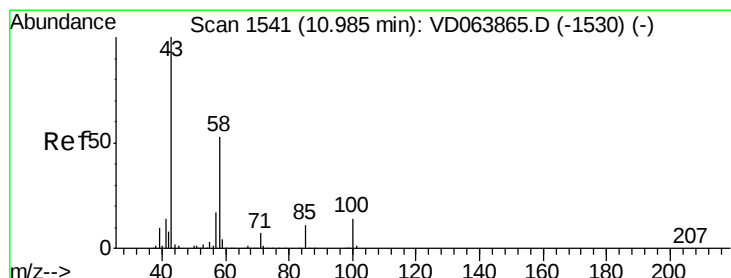
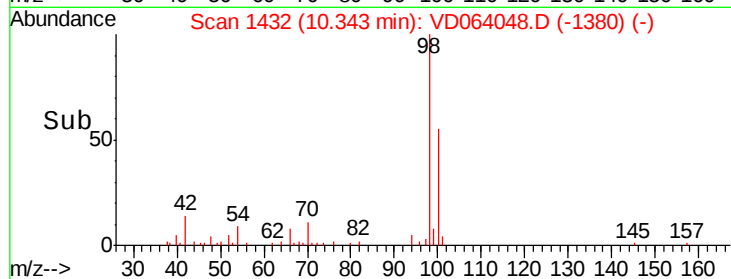
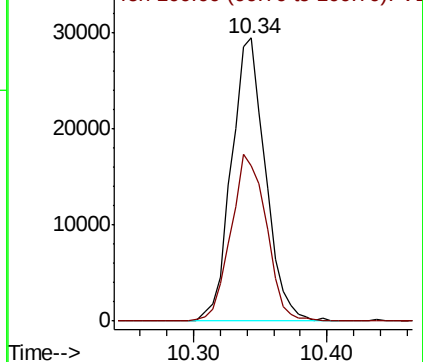
98 100

100 61.2 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#59

2-Hexanone

Concen: 1.737 ug/l

RT: 10.75 min Scan# 1501

Delta R.T. -0.24 min

Lab File: VD064048.D

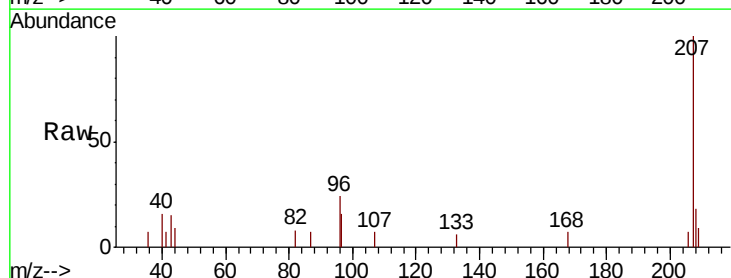
Acq: 24 Oct 2019 16:20

Tgt Ion: 43 Resp: 204

Ion Ratio Lower Upper

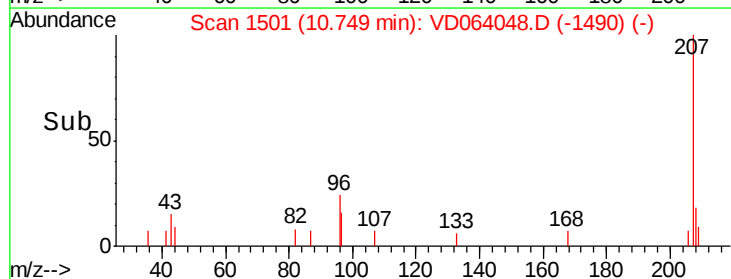
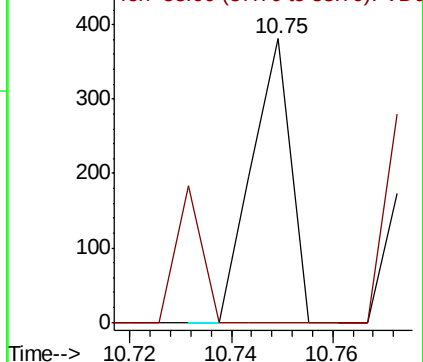
43 100

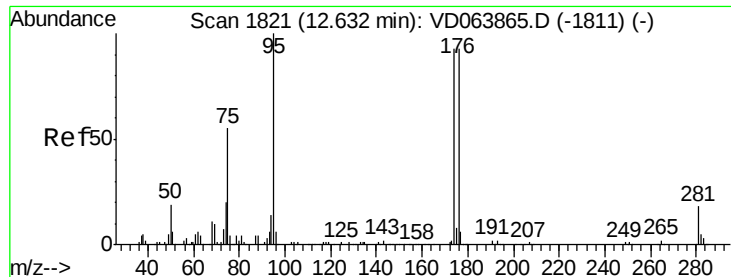
58 31.9 27.7 83.0



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

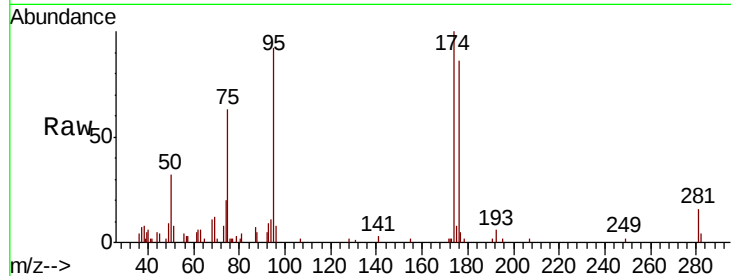




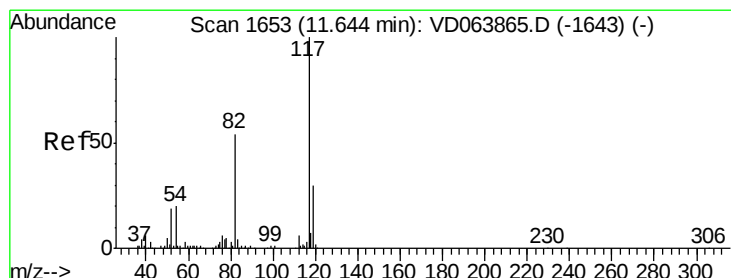
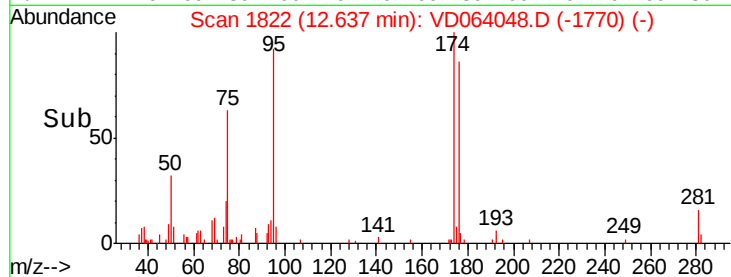
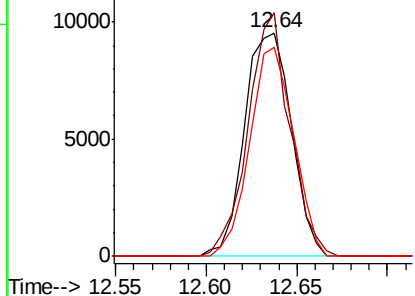
#62
4-Bromofluorobenzene
Concen: 48.793 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD064048.D
Acq: 24 Oct 2019 16:20

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 17166
Ion Ratio Lower Upper
95 100
174 97.1 0.0 186.4
176 87.5 0.0 184.2

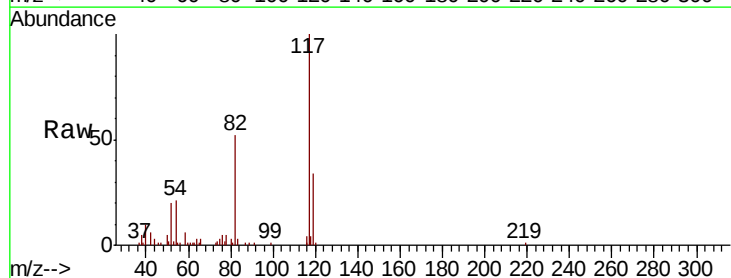


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

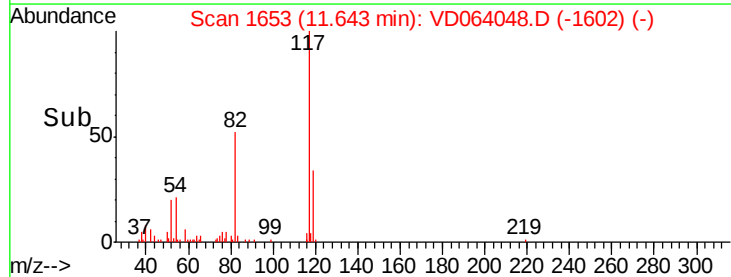
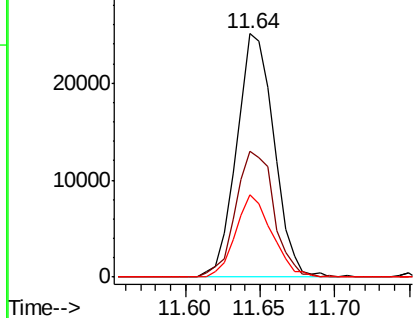


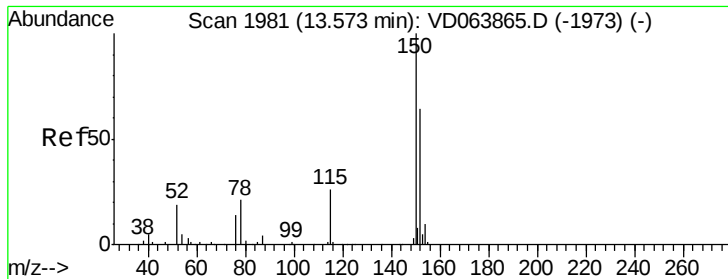
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD064048.D
Acq: 24 Oct 2019 16:20

Tgt Ion: 117 Resp: 43633
Ion Ratio Lower Upper
117 100
82 51.7 42.8 64.2
119 34.0 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.01 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

Instrument :

MSVOA_D

ClientSampleId :

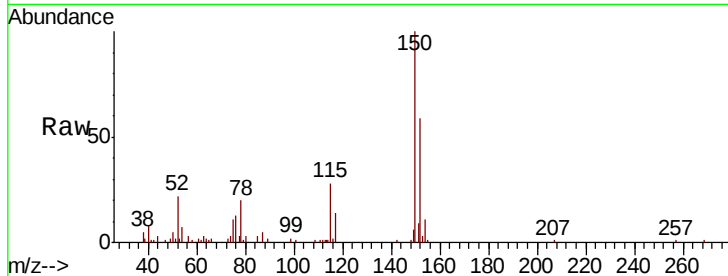
Tot Ion:152 Resp: 21909

Ion Ratio Lower Upper

152 100

115 49.6 25.9 77.7

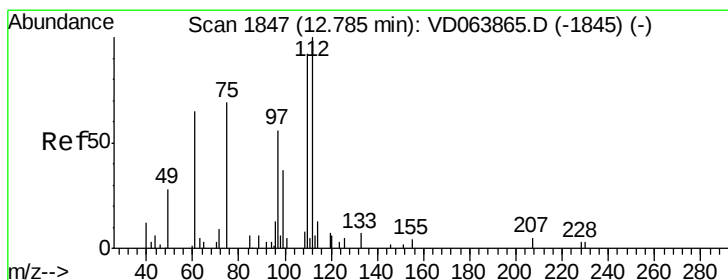
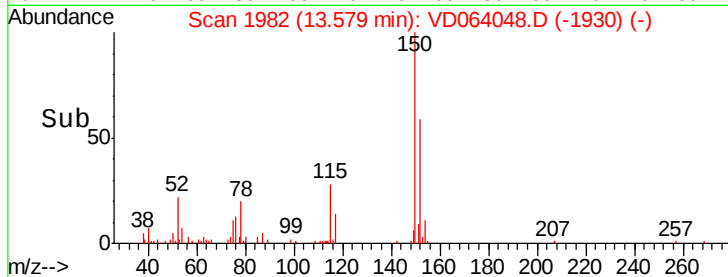
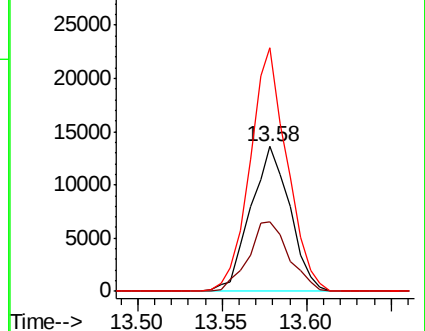
150 158.9 0.0 344.2



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: 70.403 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064048.D

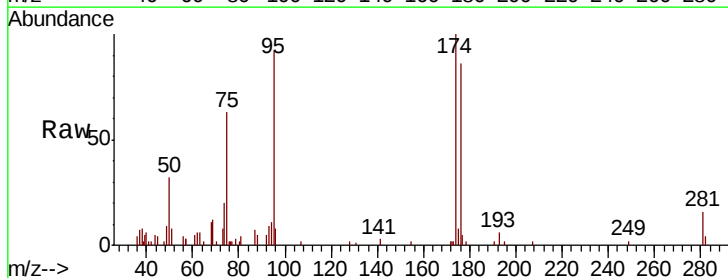
Acq: 24 Oct 2019 16:20

Tgt Ion: 75 Resp: 10331

Ion Ratio Lower Upper

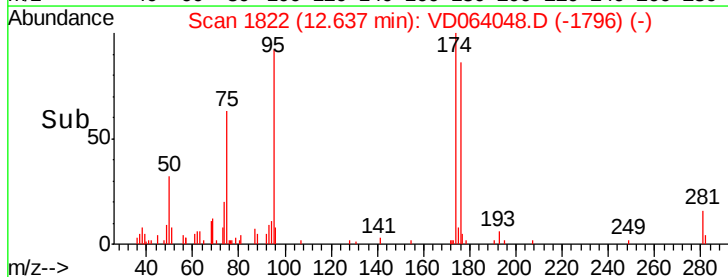
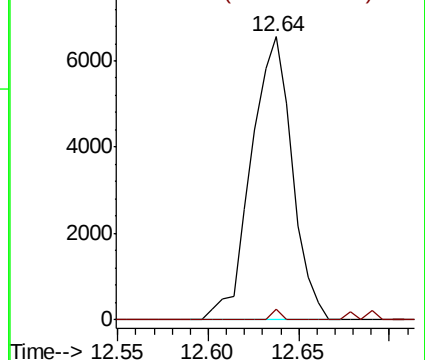
75 100

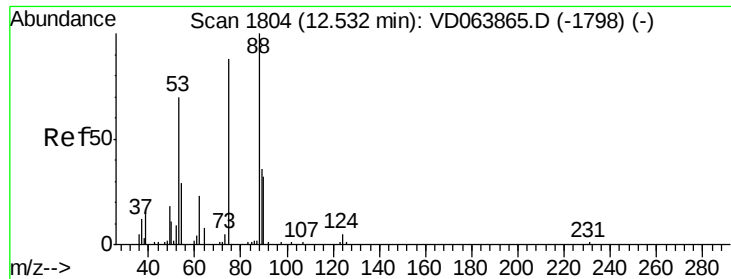
77 0.9 0.0 0.0#



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: 124.585 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064048.D

Acq: 24 Oct 2019 16:20

Instrument :

MSVOA_D

ClientSampleId :

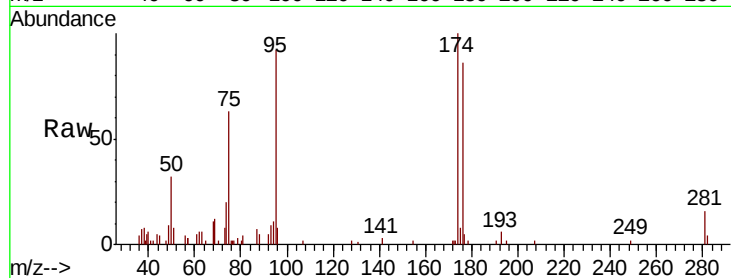
Tot Ion: 75 Resp: 10331

Ion Ratio Lower Upper

75 100

53 0.0 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

