

Data File : VD064501.D
Acq On : 11 Dec 2019 15:17
Operator : VA/SY
Sample : K6247-04RE
Misc : 7.13G/5.00ml/MSVOA_D/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RT3465

Quant Time: Dec 12 03:06:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	31253	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	49236	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	52804	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	61172	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	20309	71.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	143.58%	
35) Dibromofluoromethane	7.91	113	17344	55.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.82%	
50) Toluene-d8	10.34	98	58863	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
62) 4-Bromofluorobenzene	12.64	95	24531	65.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	130.64%	

Target Compounds

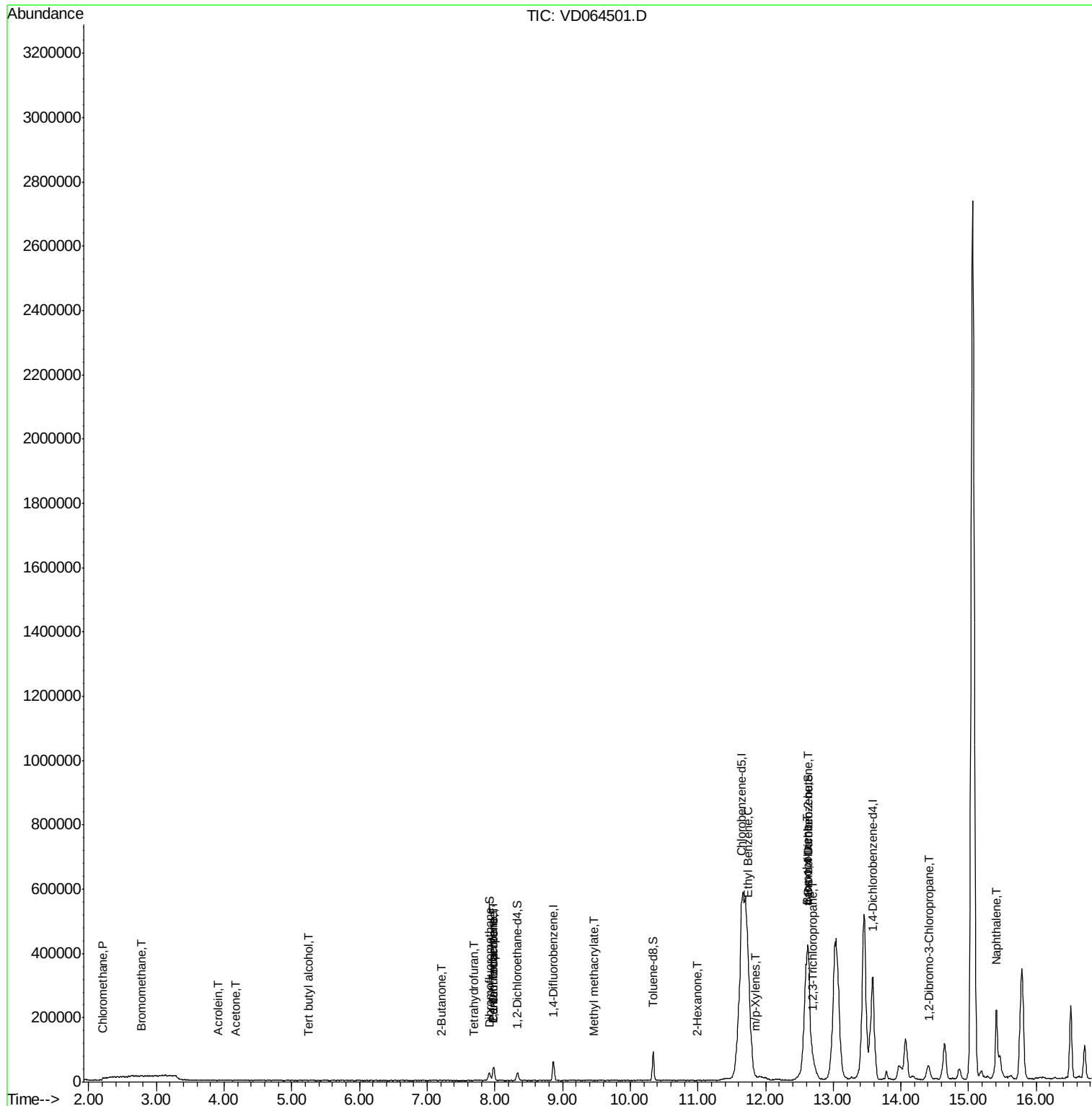
						Qvalue
3) Chloromethane	2.21	50	368	1.030	ug/l #	72
5) Bromomethane	2.79	94	632	2.072	ug/l	89
11) Tert butyl alcohol	5.24	59	57	3.165	ug/l #	100
13) Acrolein	3.91	56	61	2.484	ug/l #	59
16) Acetone	4.17	43	504	8.817	ug/l #	47
20) Methylene Chloride	4.97	84	172	Below Cal	#	5
25) 2-Butanone	7.21	43	191	2.363	ug/l #	49
29) Tetrahydrofuran	7.68	42	78	1.516	ug/l #	33
31) Cyclohexane	7.99	56	769	Below Cal	#	49
36) 1,1-Dichloropropene	7.98	75	2681	5.757	ug/l #	49
38) Carbon Tetrachloride	7.98	117	2903	5.906	ug/l #	11
48) Methyl methacrylate	9.47	41	262	1.474	ug/l #	9
59) 2-Hexanone	10.99	43	249	1.867	ug/l #	26
67) Ethyl Benzene	11.74	91	2841	1.450	ug/l	100
68) m/p-Xylenes	11.86	106	1027	1.375	ug/l	91
76) 1,2,3-Trichloropropane	12.70	75	1986	3.948	ug/l #	100
77) Bromobenzene	12.61	156	347149	319.525	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.64	75	35430	153.572	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.41	75	1049	5.774	ug/l #	1
95) Naphthalene	15.41	128	212432	94.314	ug/l	99

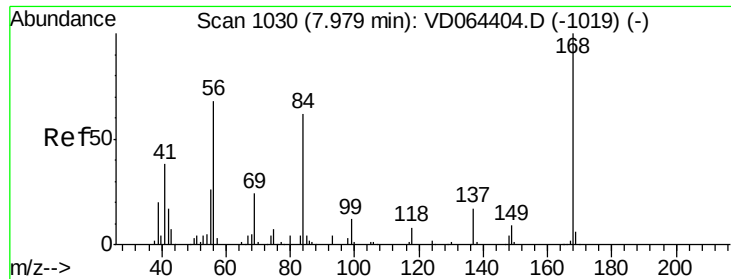
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

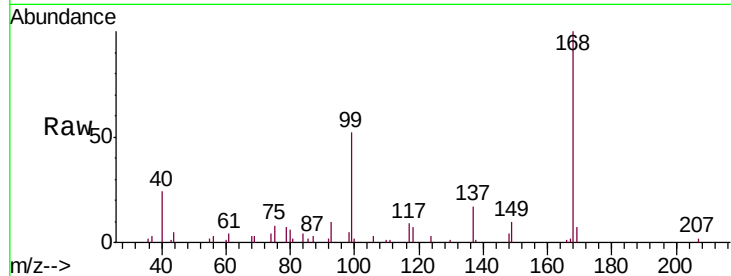
RT3465

Tgt Ion:168 Resp: 31253

Ion Ratio Lower Upper

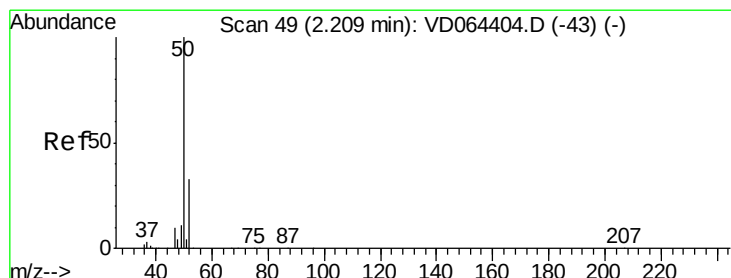
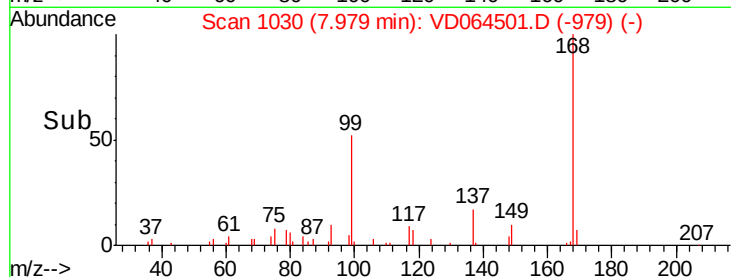
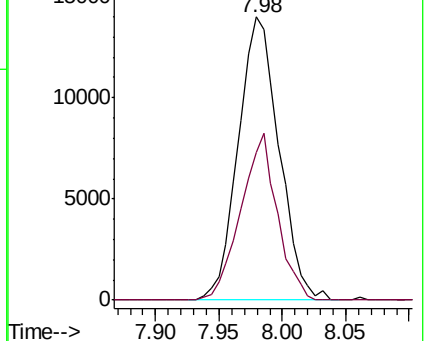
168 100

99 52.2 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 1.030 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064501.D

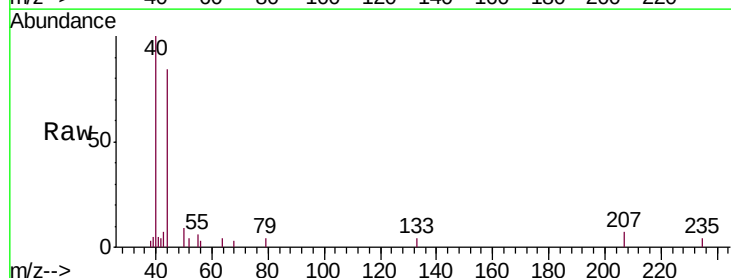
Acq: 11 Dec 2019 15:17

Tgt Ion: 50 Resp: 368

Ion Ratio Lower Upper

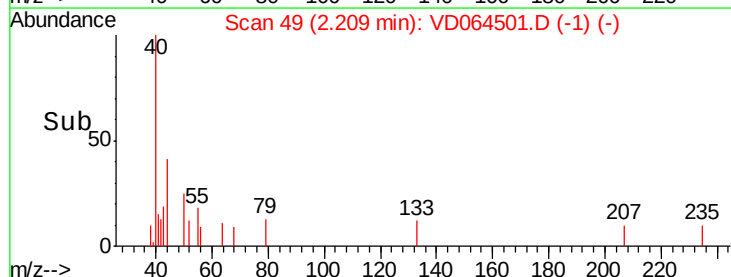
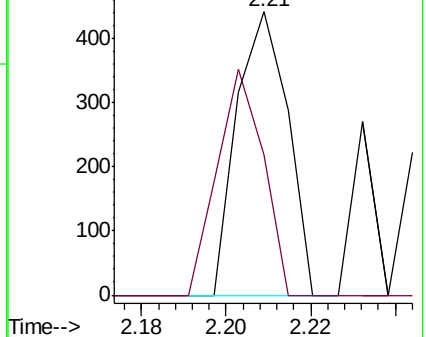
50 100

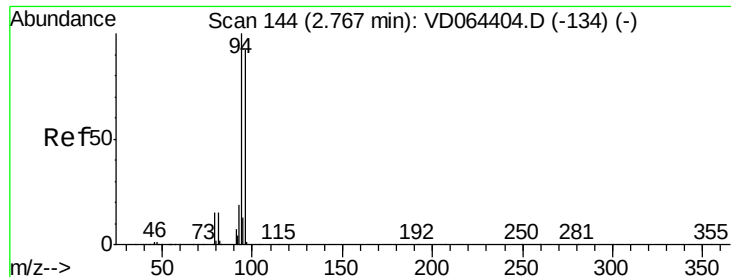
52 49.4 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 2.072 ug/l

RT: 2.79 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

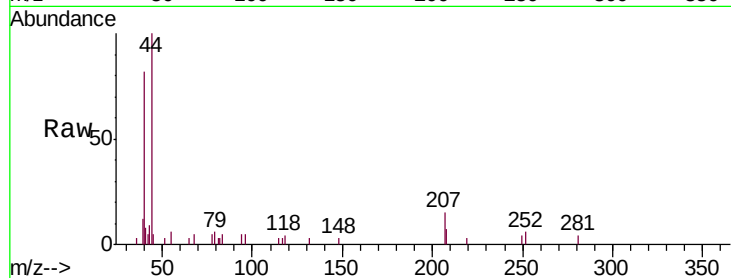
RT3465

Tgt Ion: 94 Resp: 632

Ion Ratio Lower Upper

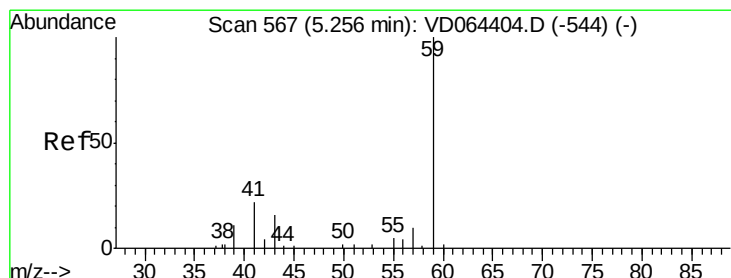
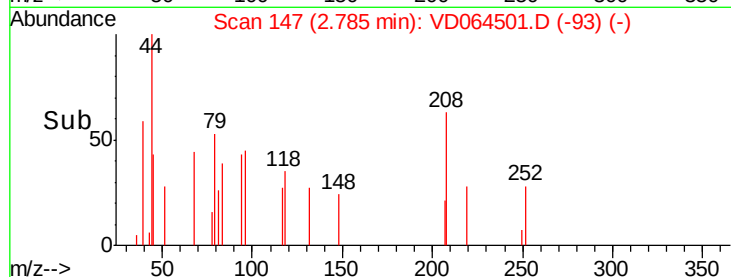
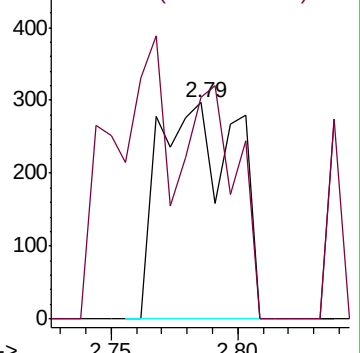
94 100

96 102.4 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: 3.165 ug/l

RT: 5.24 min Scan# 565

Delta R.T. -0.01 min

Lab File: VD064501.D

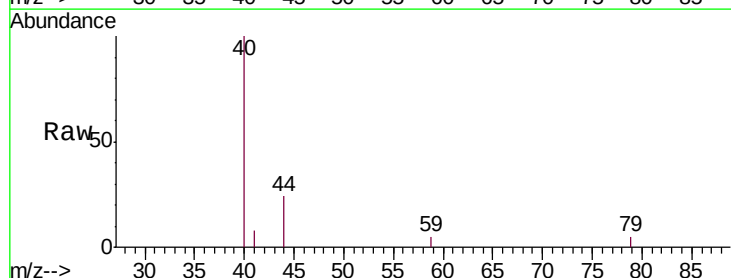
Acq: 11 Dec 2019 15:17

Tgt Ion: 59 Resp: 57

Ion Ratio Lower Upper

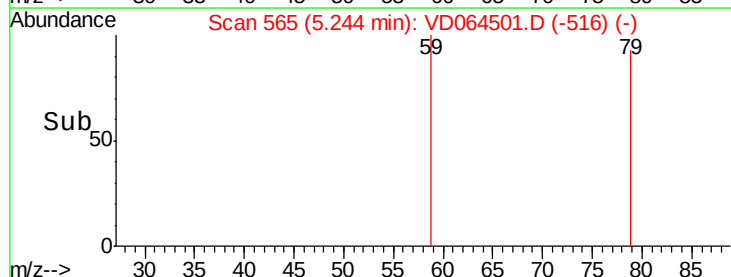
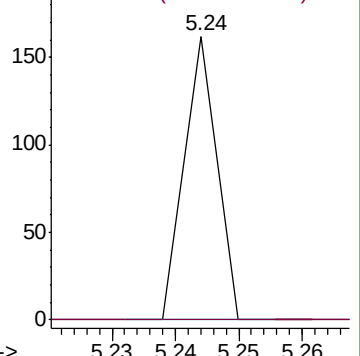
59 100

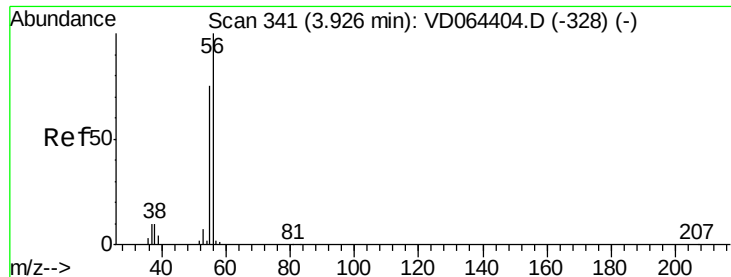
57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#13

Acrolein

Concen: 2.484 ug/l

RT: 3.91 min Scan# 339

Delta R.T. -0.01 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

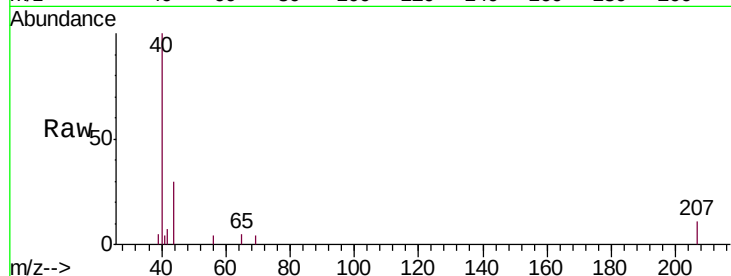
RT3465

Tgt Ion: 56 Resp: 61

Ion Ratio Lower Upper

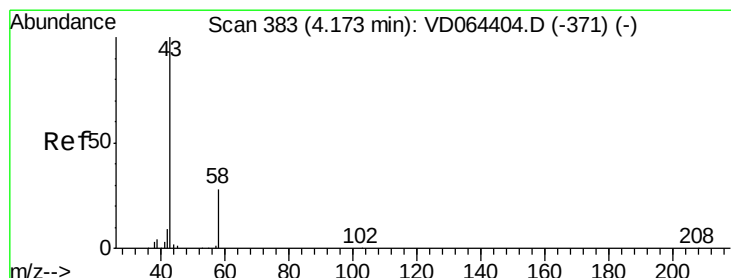
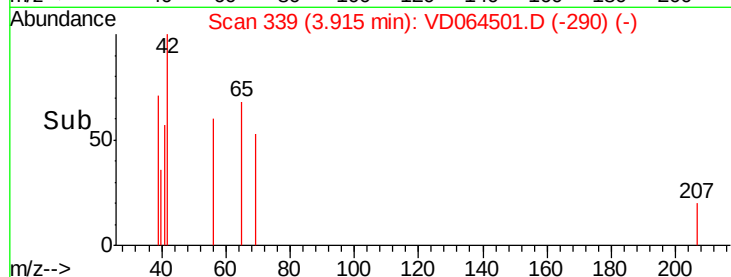
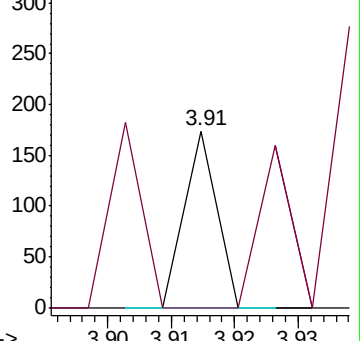
56 100

55 104.9 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 8.817 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.00 min

Lab File: VD064501.D

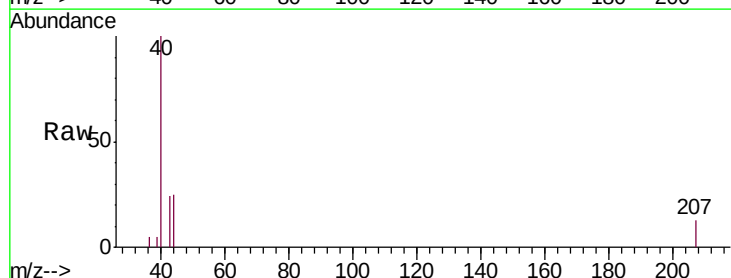
Acq: 11 Dec 2019 15:17

Tgt Ion: 43 Resp: 504

Ion Ratio Lower Upper

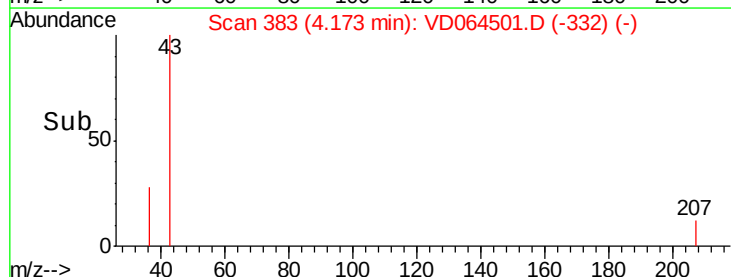
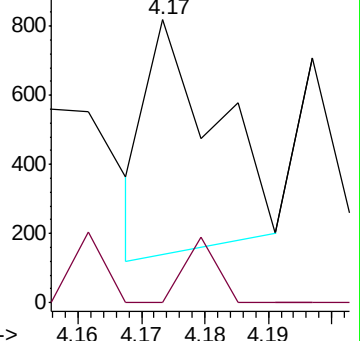
43 100

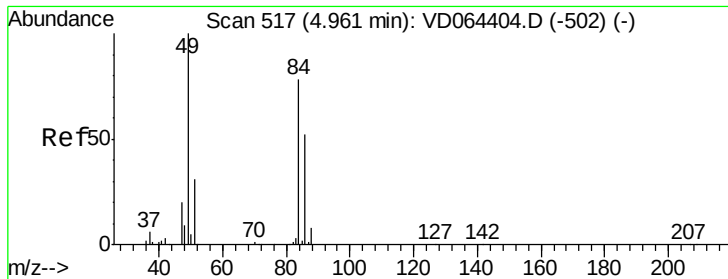
58 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

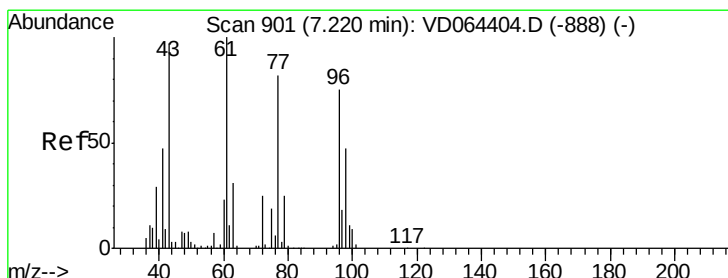
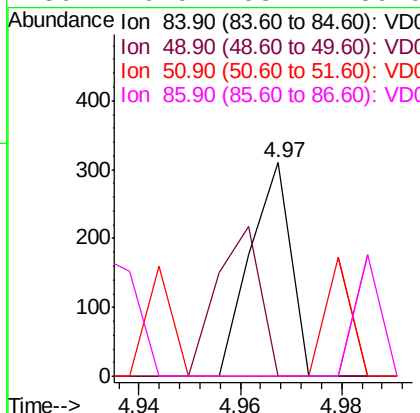
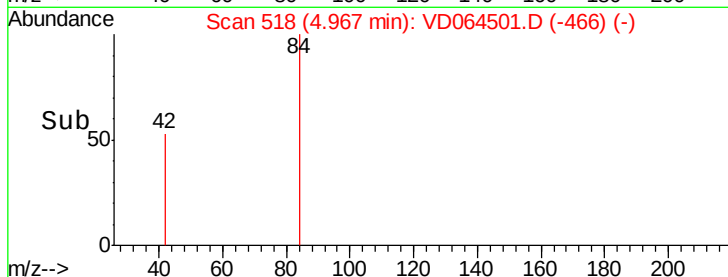
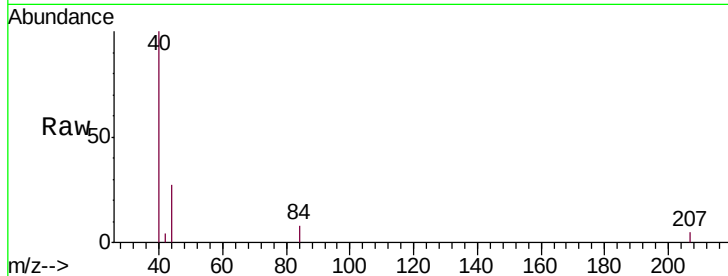




#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064501.D
Acq: 11 Dec 2019 15:17

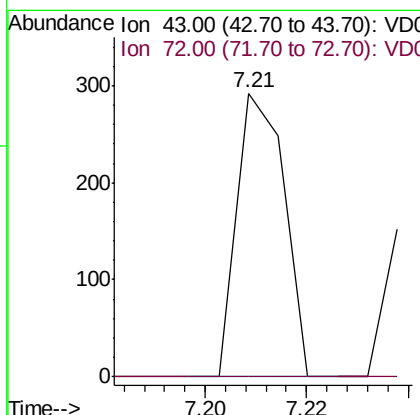
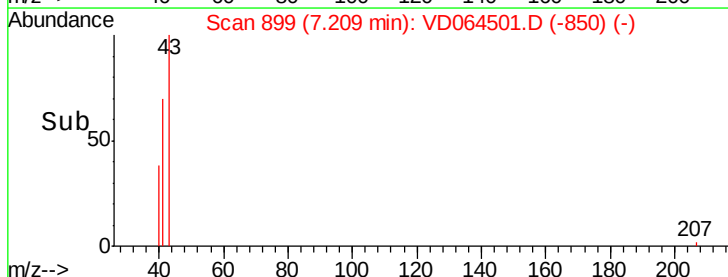
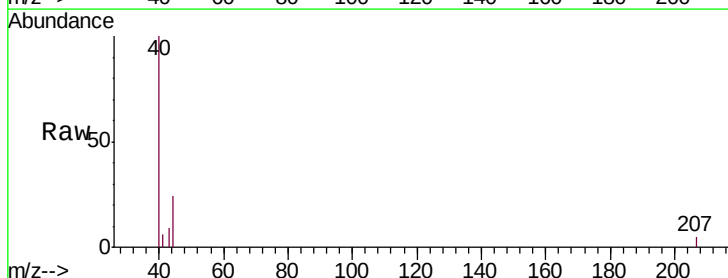
Instrument :
MSVOA_D
ClientSampleId :
RT3465

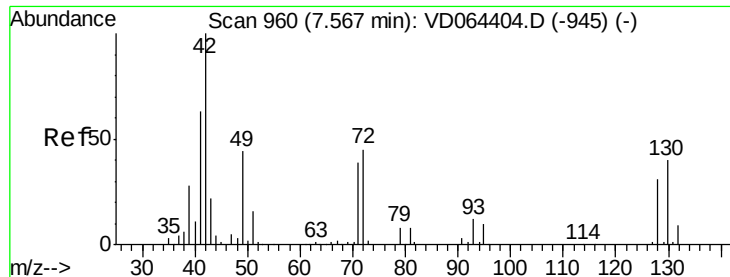
Tgt Ion: 84 Resp: 172
Ion Ratio Lower Upper
84 100
49 0.0 102.6 153.8#
51 0.0 32.0 48.0#
86 0.0 53.4 80.0#



#25
2-Butanone
Concen: 2.363 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD064501.D
Acq: 11 Dec 2019 15:17

Tgt Ion: 43 Resp: 191
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.4#





#29

Tetrahydrofuran

Concen: 1.516 ug/l

RT: 7.68 min Scan# 980

Delta R.T. 0.12 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

RT3465

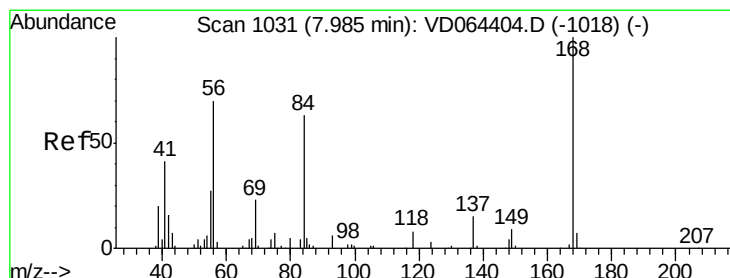
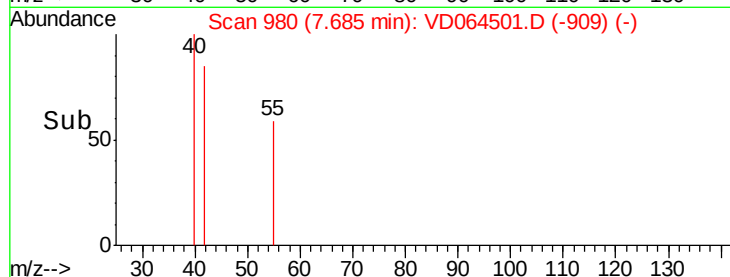
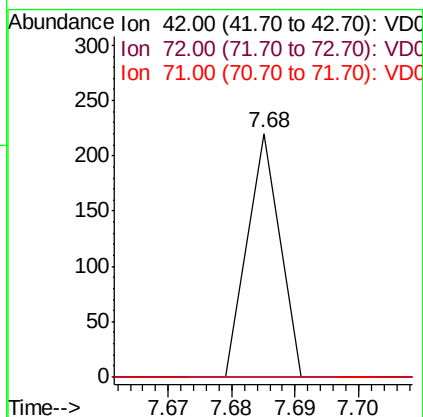
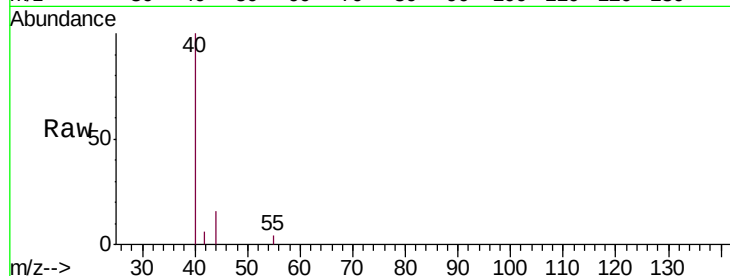
Tgt Ion: 42 Resp: 78

Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.8#

71 0.0 32.7 49.1#



#31

Cyclohexane

Concen: Below Cal

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

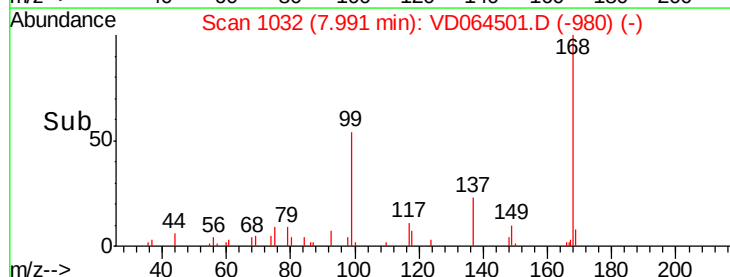
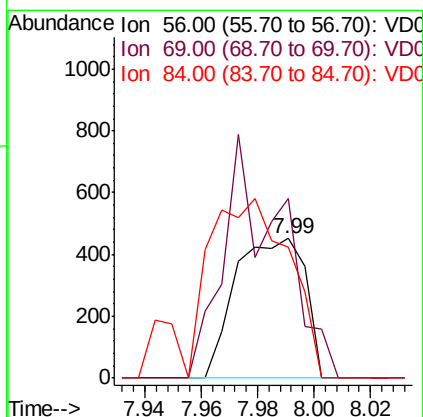
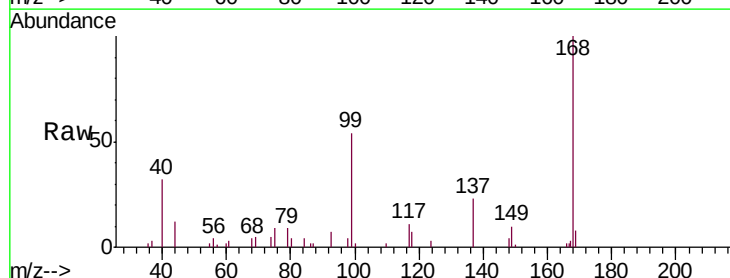
Tgt Ion: 56 Resp: 769

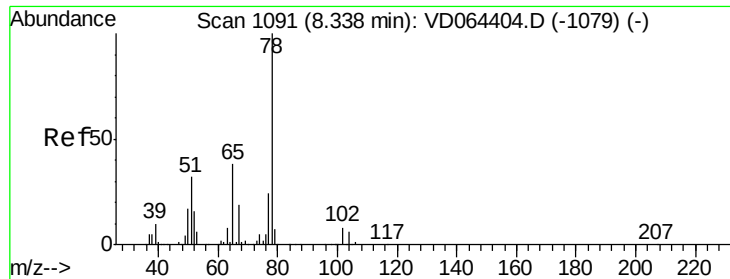
Ion Ratio Lower Upper

56 100

69 128.6 26.2 39.4#

84 93.6 70.3 105.5

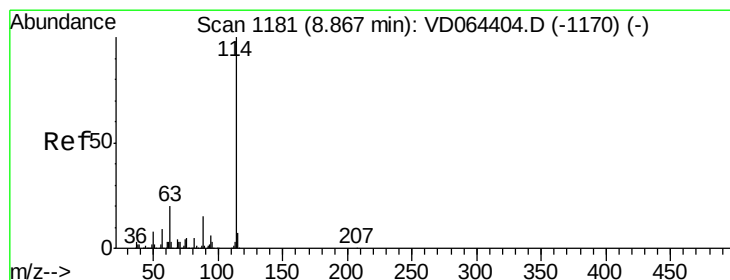
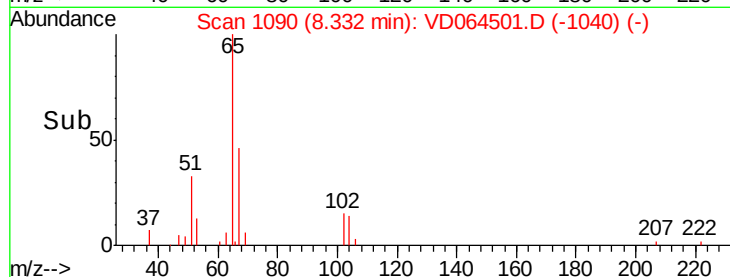
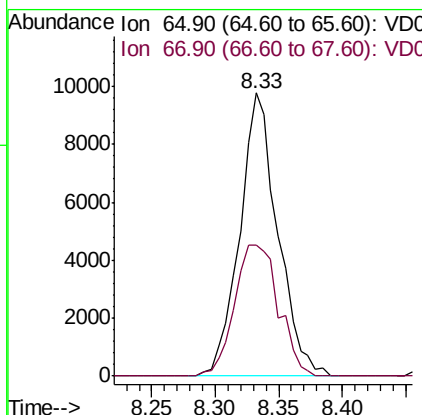
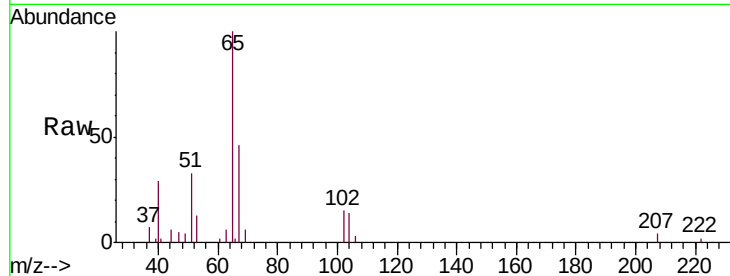




#33
 1,2-Dichloroethane-d4
 Concen: 71.792 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064501.D
 Acq: 11 Dec 2019 15:17

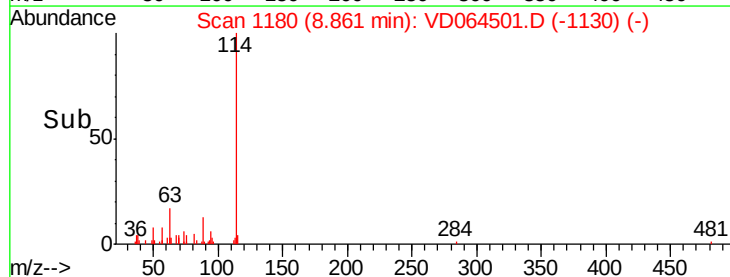
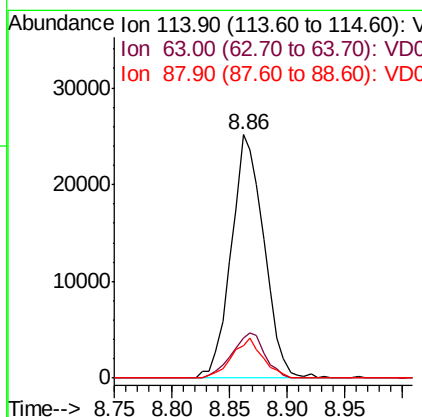
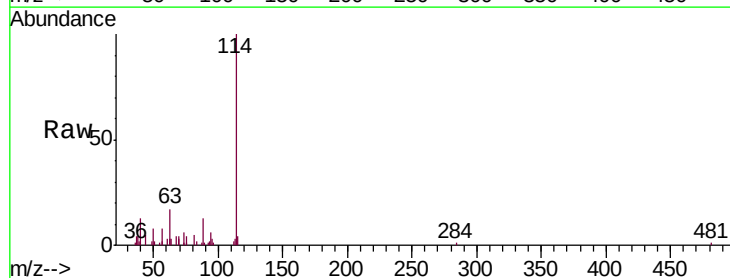
Instrument :
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 RT3465

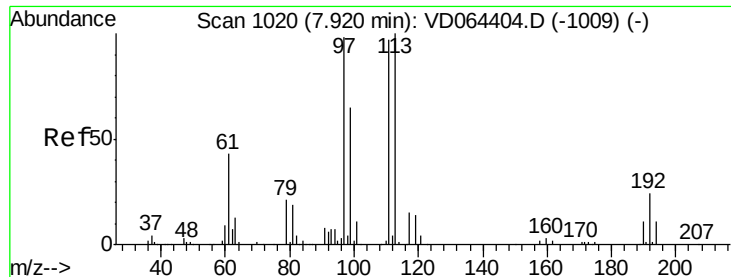
Tgt Ion: 65 Resp: 20309
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VD064501.D
 Acq: 11 Dec 2019 15:17

Tgt Ion: 114 Resp: 49236
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 40.0
 88 13.1 0.0 29.2





#35

Dibromofluoromethane

Concen: 55.910 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

RT3465

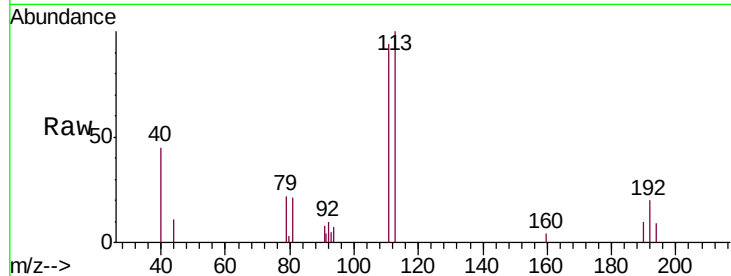
Tgt Ion:113 Resp: 17344

Ion Ratio Lower Upper

113 100

111 96.1 79.4 119.2

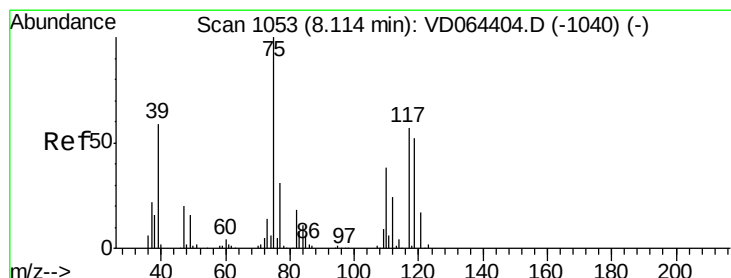
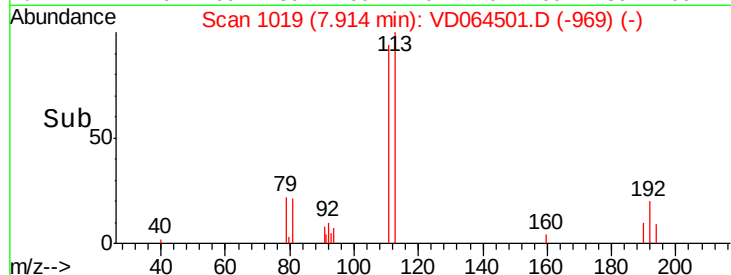
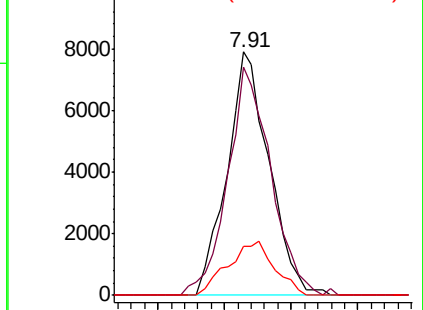
192 24.4 18.6 28.0



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: 5.757 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

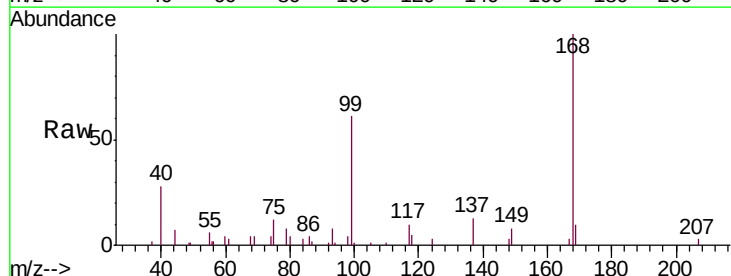
Tgt Ion: 75 Resp: 2681

Ion Ratio Lower Upper

75 100

110 9.8 18.6 55.8#

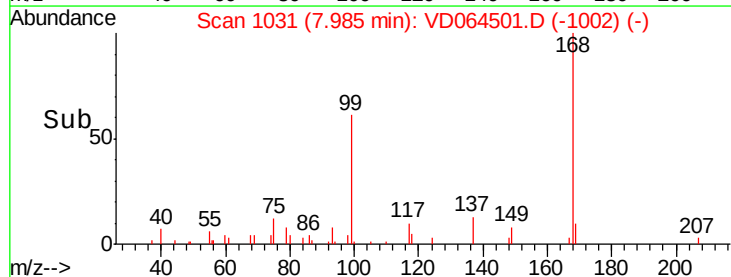
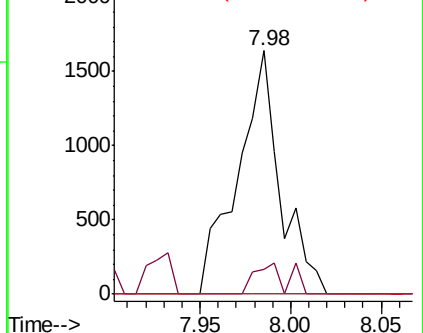
77 0.0 25.0 37.4#

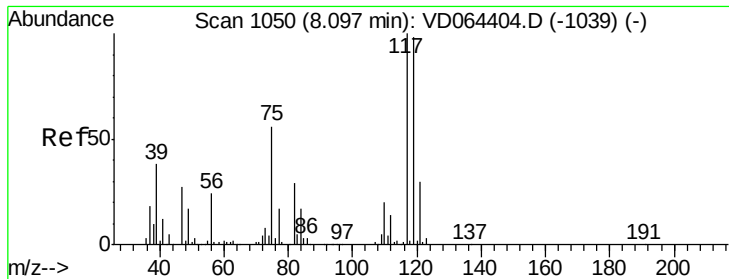


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.906 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

RT3465

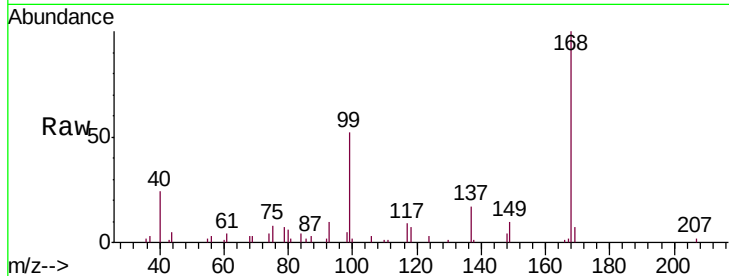
Tgt Ion:117 Resp: 2903

Ion Ratio Lower Upper

117 100

119 0.0 78.8 118.2#

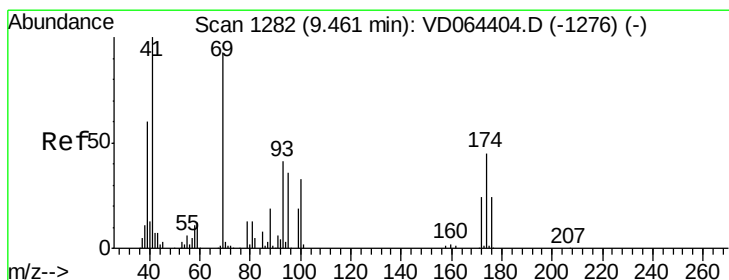
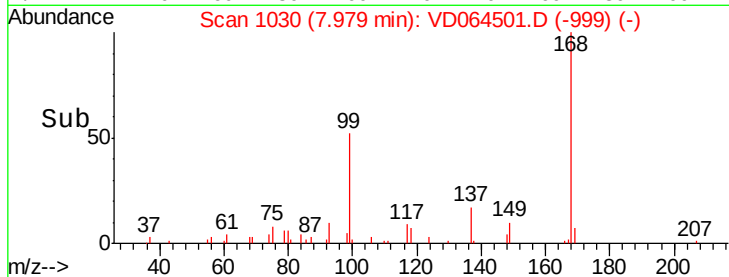
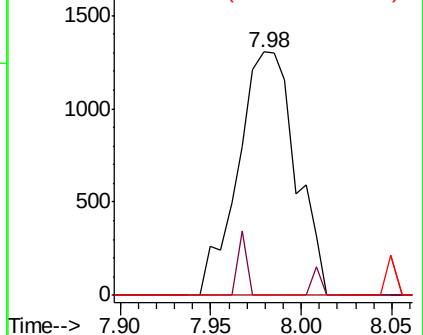
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#48

Methyl methacrylate

Concen: 1.474 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. 0.01 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

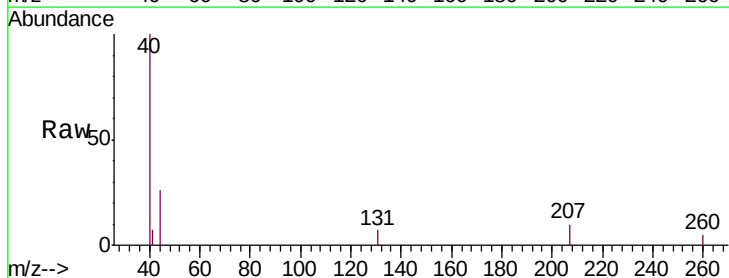
Tgt Ion: 41 Resp: 262

Ion Ratio Lower Upper

41 100

69 0.0 72.0 108.0#

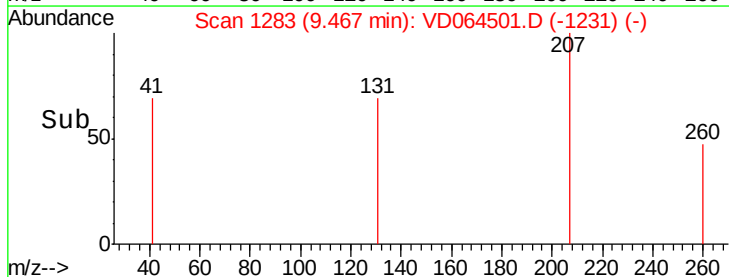
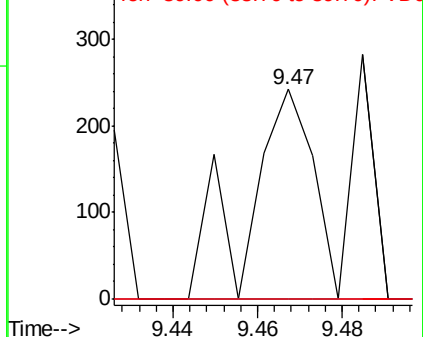
39 0.0 55.2 82.8#

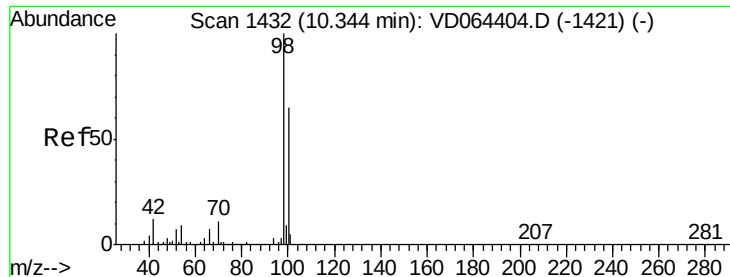


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

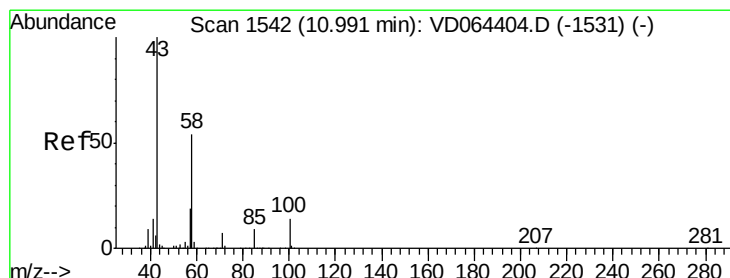
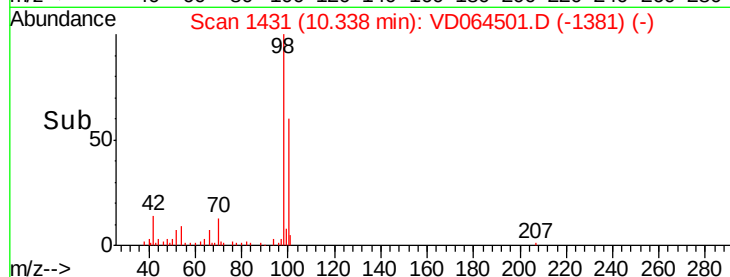
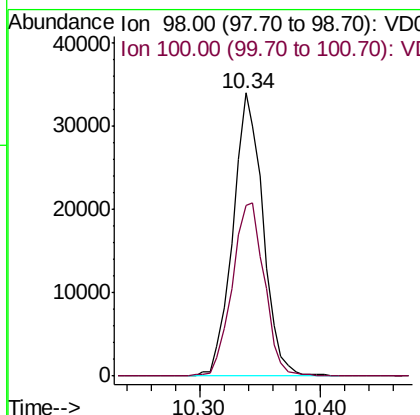
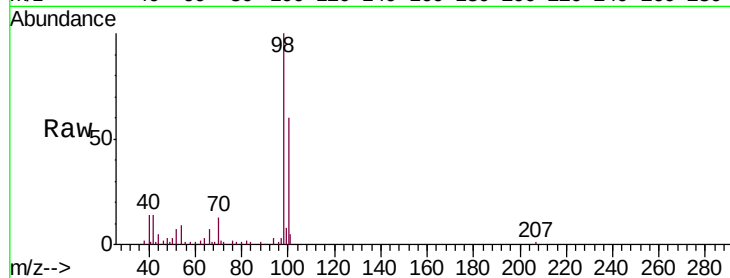




#50
Toluene-d8
Concen: 50.373 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064501.D
Acq: 11 Dec 2019 15:17

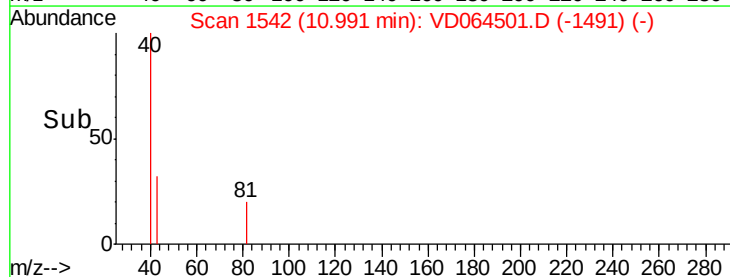
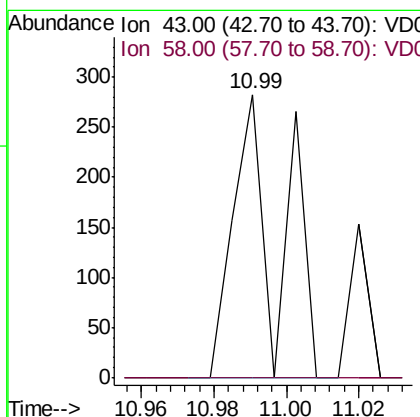
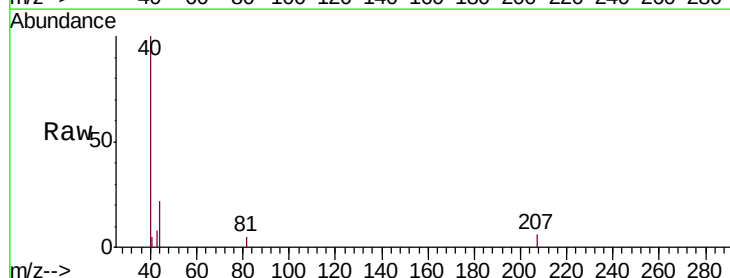
Instrument :
MSVOA_D
ClientSampleId :
RT3465

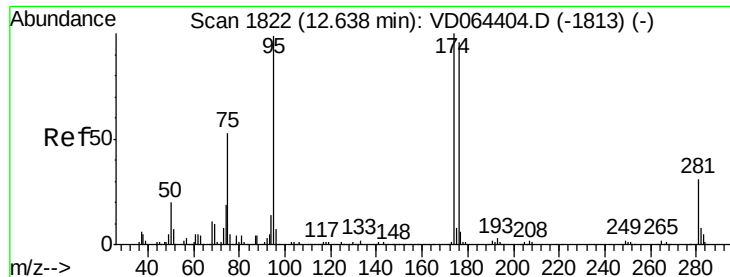
Tgt Ion: 98 Resp: 58863
Ion Ratio Lower Upper
98 100
100 65.5 52.6 79.0



#59
2-Hexanone
Concen: 1.867 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064501.D
Acq: 11 Dec 2019 15:17

Tgt Ion: 43 Resp: 249
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.8#

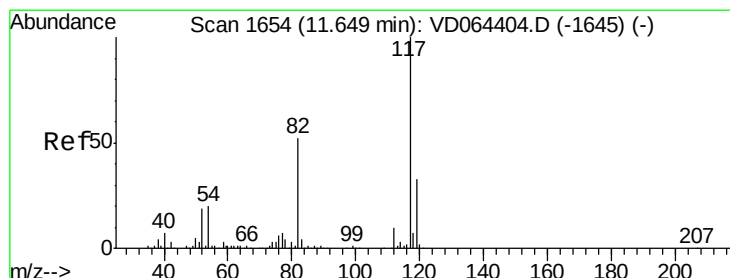
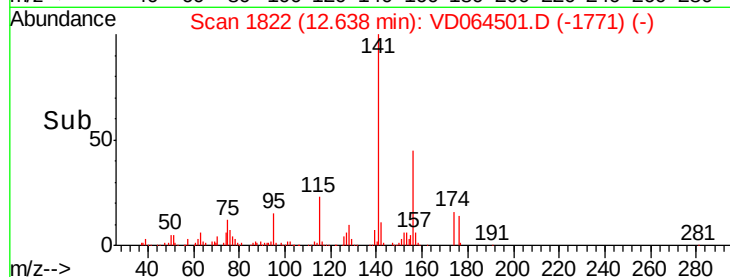
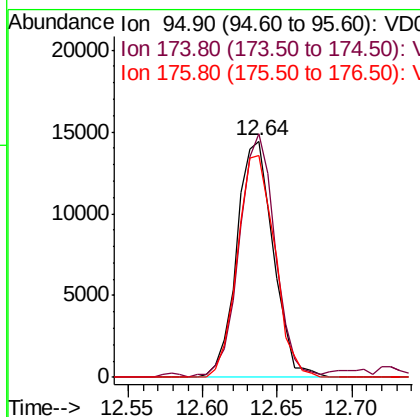
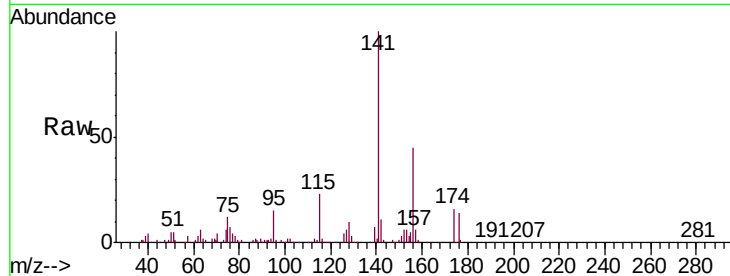




#62
4-Bromofluorobenzene
Concen: 65.323 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064501.D
Acq: 11 Dec 2019 15:17

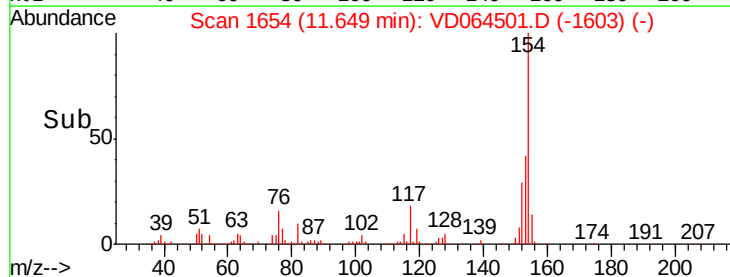
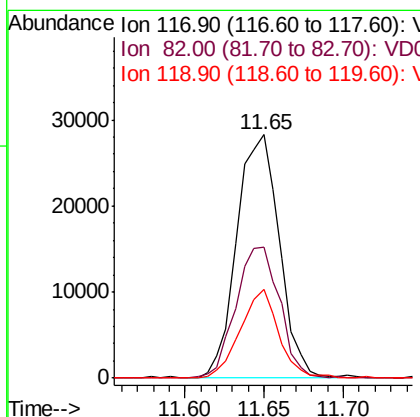
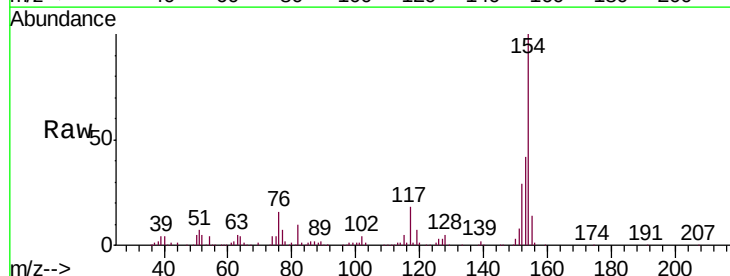
Instrument :
MSVOA_D
ClientSampleId :
RT3465

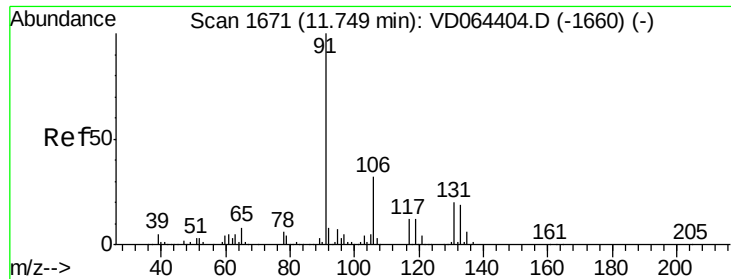
Tgt Ion: 95 Resp: 24531
Ion Ratio Lower Upper
95 100
174 100.7 0.0 197.2
176 95.4 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064501.D
Acq: 11 Dec 2019 15:17

Tgt Ion: 117 Resp: 52804
Ion Ratio Lower Upper
117 100
82 53.8 41.4 62.2
119 36.5 26.2 39.2





#67

Ethyl Benzene

Concen: 1.450 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

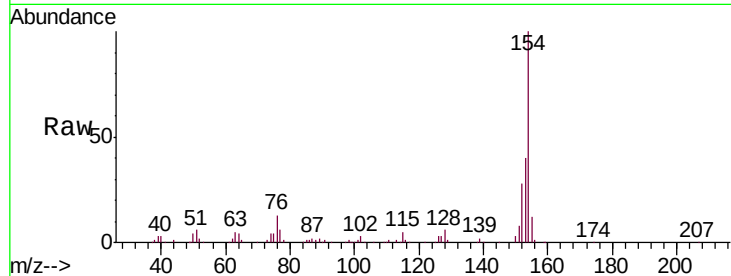
RT3465

Tgt Ion: 91 Resp: 2841

Ion Ratio Lower Upper

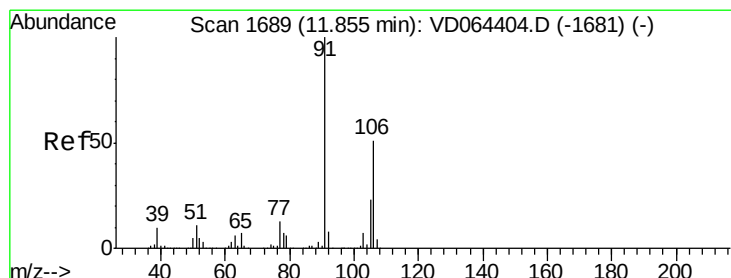
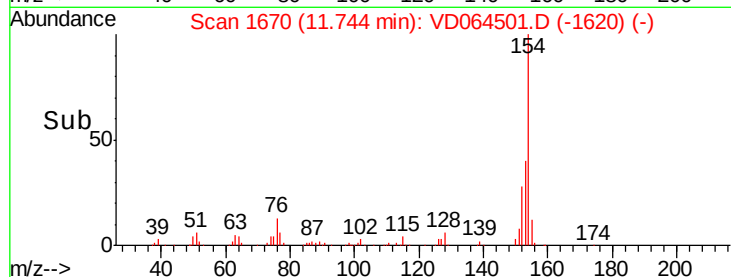
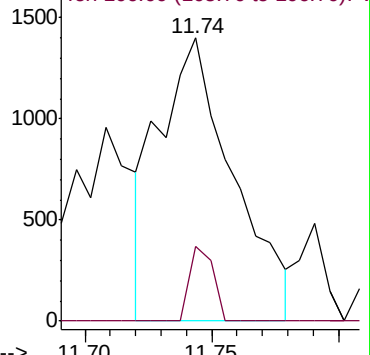
91 100

106 32.3 25.8 38.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 1.375 ug/l

RT: 11.86 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VD064501.D

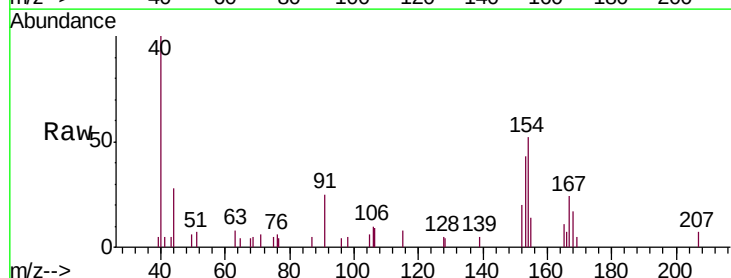
Acq: 11 Dec 2019 15:17

Tgt Ion: 106 Resp: 1027

Ion Ratio Lower Upper

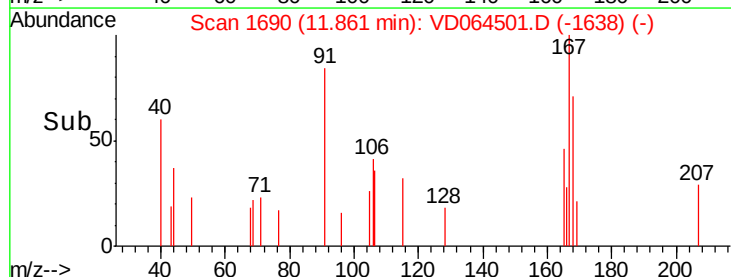
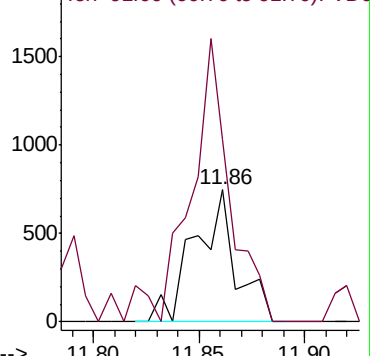
106 100

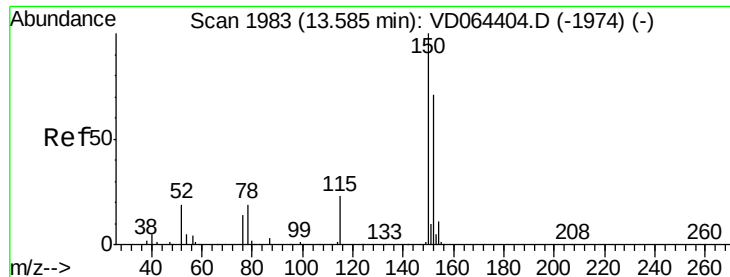
91 210.6 157.4 236.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

RT3465

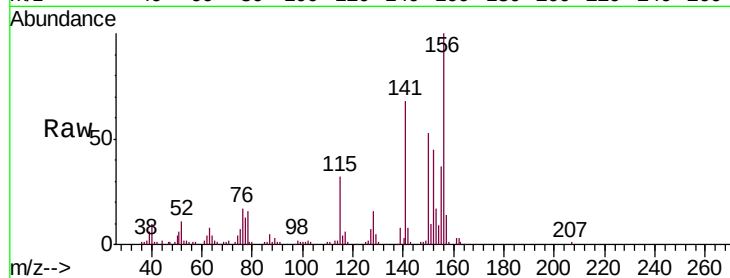
Tgt Ion:152 Resp: 61172

Ion Ratio Lower Upper

152 100

115 90.0 26.7 80.1#

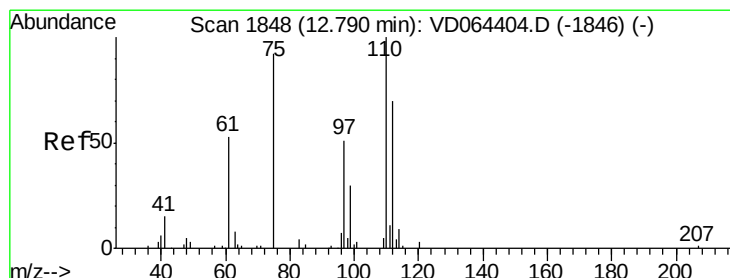
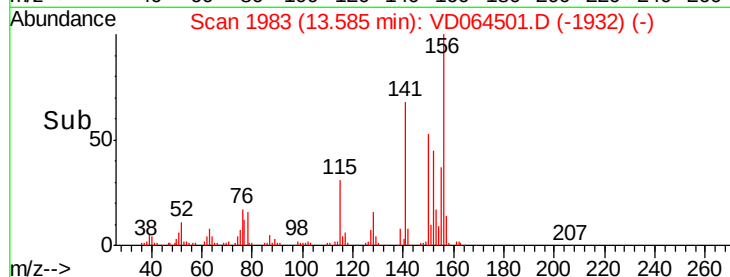
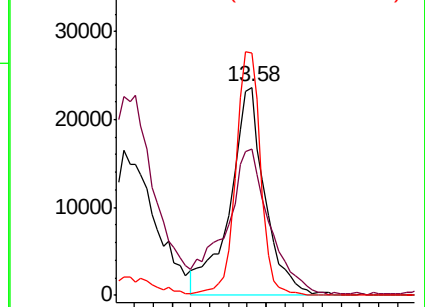
150 83.2 0.0 347.2



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: 3.948 ug/l

RT: 12.70 min Scan# 1833

Delta R.T. -0.09 min

Lab File: VD064501.D

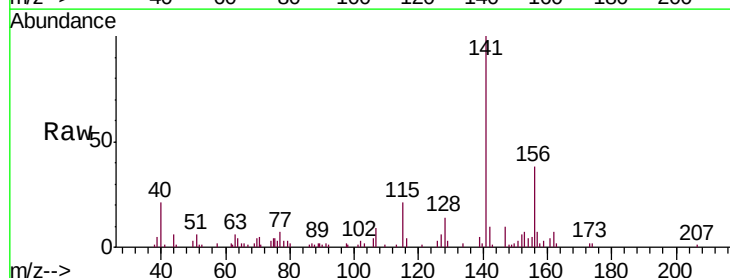
Acq: 11 Dec 2019 15:17

Tgt Ion: 75 Resp: 1986

Ion Ratio Lower Upper

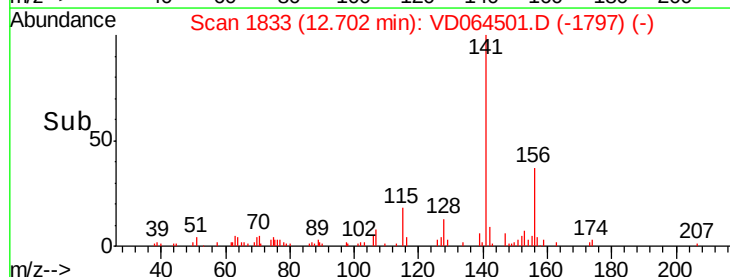
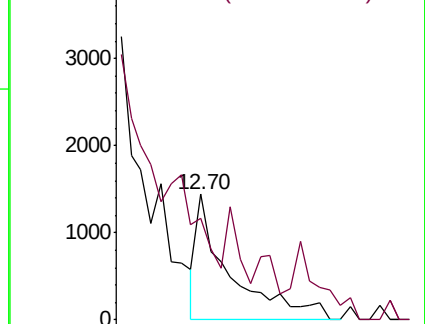
75 100

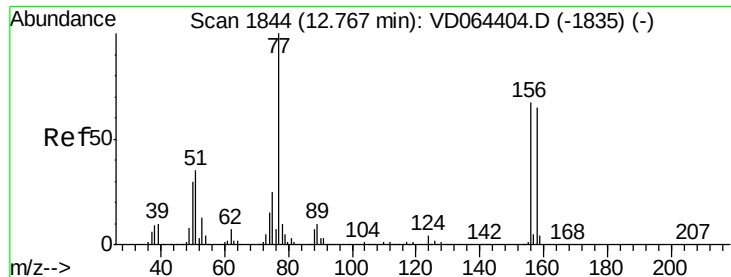
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 319.525 ug/l

RT: 12.61 min Scan# 1818

Delta R.T. -0.15 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

RT3465

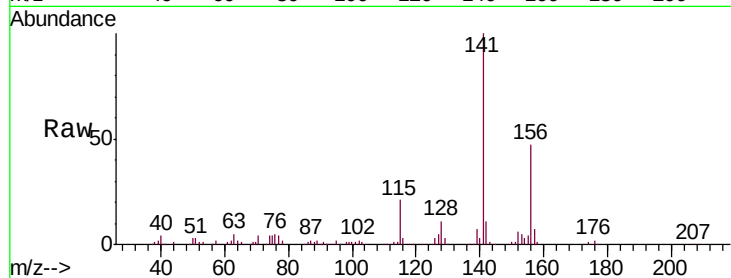
Tgt Ion:156 Resp: 347149

Ion Ratio Lower Upper

156 100

77 8.5 80.0 240.2#

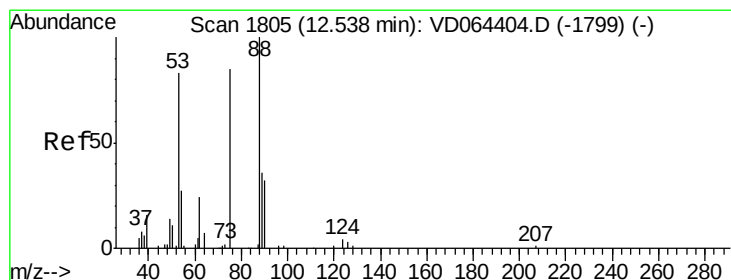
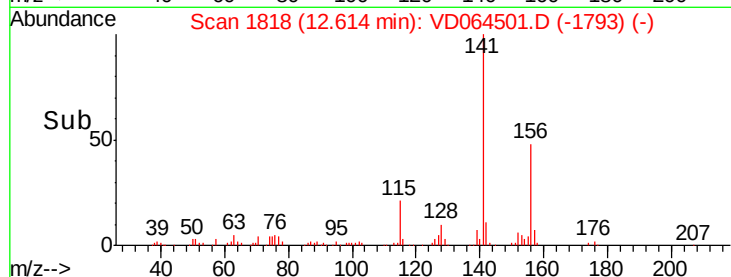
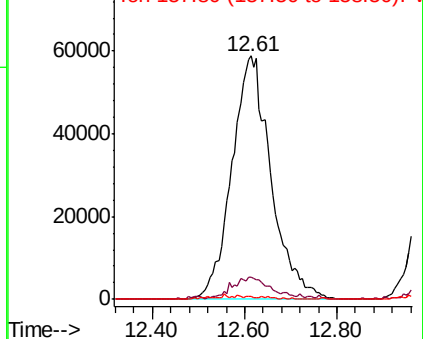
158 0.2 48.9 146.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 153.572 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064501.D

Acq: 11 Dec 2019 15:17

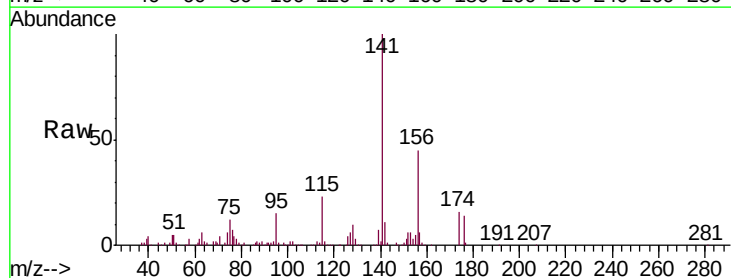
Tgt Ion: 75 Resp: 35430

Ion Ratio Lower Upper

75 100

53 1.8 81.0 121.6#

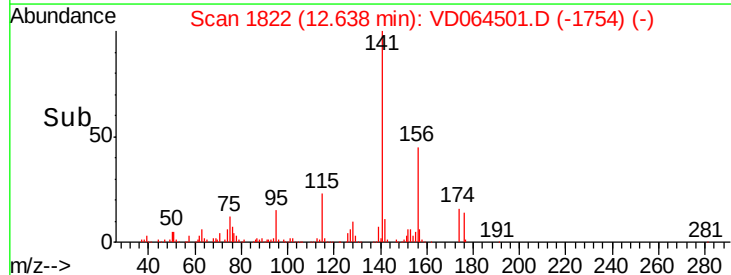
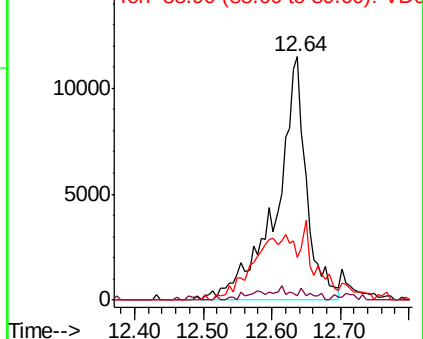
89 0.0 38.5 57.7#

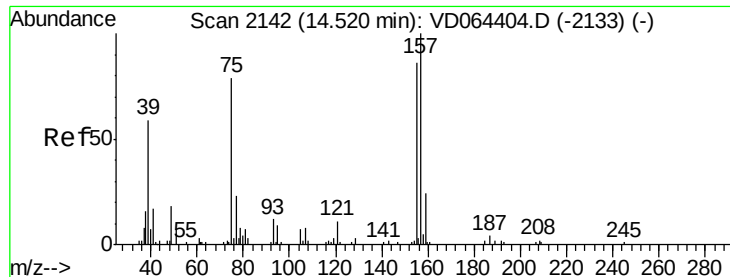


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

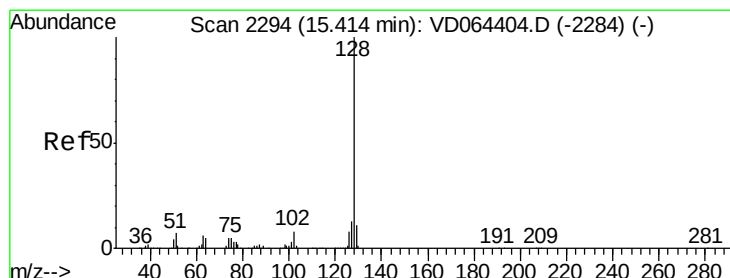
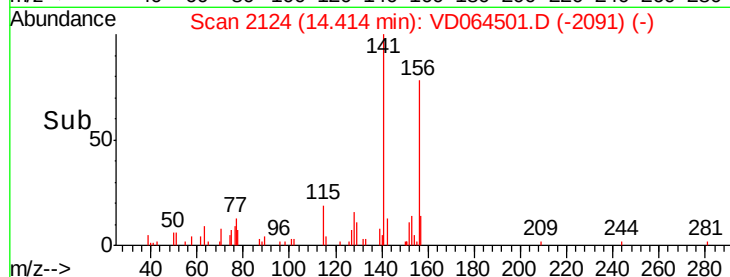
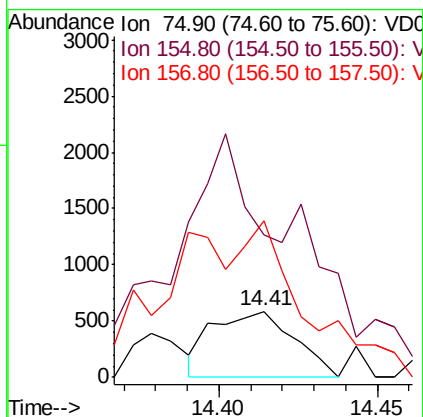
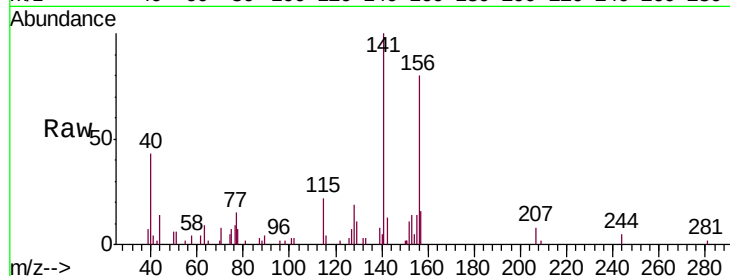




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.774 ug/l
 RT: 14.41 min Scan# 2124
 Delta R.T. -0.10 min
 Lab File: VD064501.D
 Acq: 11 Dec 2019 15:17

Instrument :
 MSVOA_D
 ClientSampleId :
 RT3465

Tgt Ion: 75 Resp: 1049
 Ion Ratio Lower Upper
 75 100
 155 619.2 51.9 155.7#
 157 0.0 63.2 189.8#



#95
 Naphthalene
 Concen: 94.314 ug/l
 RT: 15.41 min Scan# 2293
 Delta R.T. -0.01 min
 Lab File: VD064501.D
 Acq: 11 Dec 2019 15:17

Tgt Ion: 128 Resp: 212432
 Ion Ratio Lower Upper
 128 100
 127 14.0 10.5 15.7
 129 11.1 8.8 13.2

