

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010320\
 Data File : VD064758.D
 Acq On : 04 Jan 2020 04:00
 Operator : VA/SY
 Sample : K6463-05RE
 Misc : 5.40G/5.00ml/MSVOA D/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 06 06:52:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	162957	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	255884	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	239103	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	116098	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	104766	72.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	145.82%	
35) Dibromofluoromethane	7.92	113	85798	54.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.30%	
50) Toluene-d8	10.34	98	296540	49.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.64%	
62) 4-Bromofluorobenzene	12.64	95	104376	54.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.80%	

Target Compounds

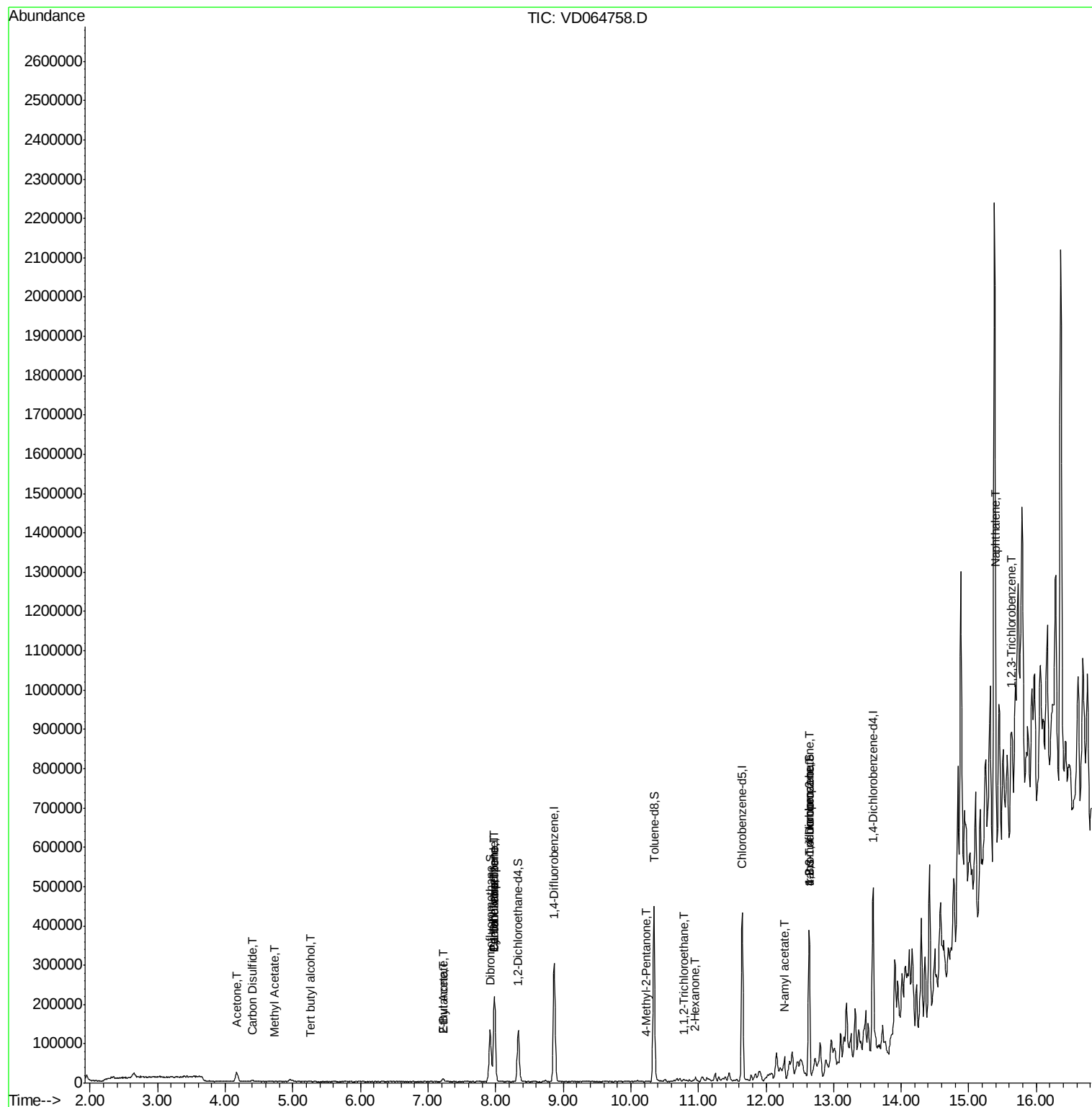
						Qvalue
11) Tert butyl alcohol	5.25	59	312	3.789	ug/l #	70
16) Acetone	4.17	43	39337	124.612	ug/l	100
17) Carbon Disulfide	4.40	76	7014	1.513	ug/l #	69
18) Methyl Acetate	4.73	43	1048	1.295	ug/l #	51
20) Methylene Chloride	4.96	84	4128	Below Cal	#	96
25) 2-Butanone	7.22	43	10006	25.333	ug/l	100
31) Cyclohexane	7.98	56	4168	1.556	ug/l #	1
36) 1,1-Dichloropropene	7.97	75	12768	5.184	ug/l #	43
37) Ethyl Acetate	7.22	43	10006	10.342	ug/l #	72
38) Carbon Tetrachloride	7.99	117	15798	6.016	ug/l #	19
51) 4-Methyl-2-Pentanone	10.24	43	1052	1.105	ug/l #	59
55) 1,1,2-Trichloroethane	10.78	97	1269	1.052	ug/l #	33
59) 2-Hexanone	10.96	43	4958	7.674	ug/l #	26
74) N-amyl acetate	12.27	43	14090	7.945	ug/l #	61
76) 1,2,3-Trichloropropane	12.64	75	54857	59.837	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	54857	125.146	ug/l #	10
95) Naphthalene	15.40	128	5963	1.545	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.63	180	3501	1.681	ug/l #	12

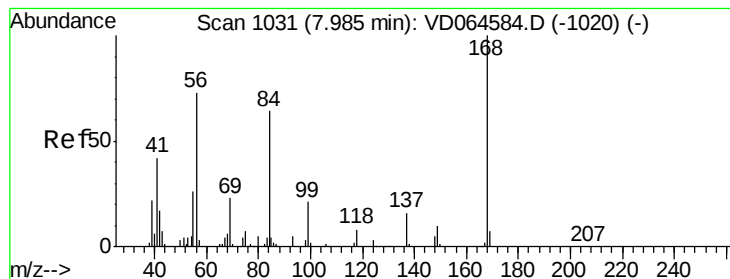
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 24 13:19:06 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: VD064758.D

Acq: 04 Jan 2020 04:00

Instrument :

MSVOA_D

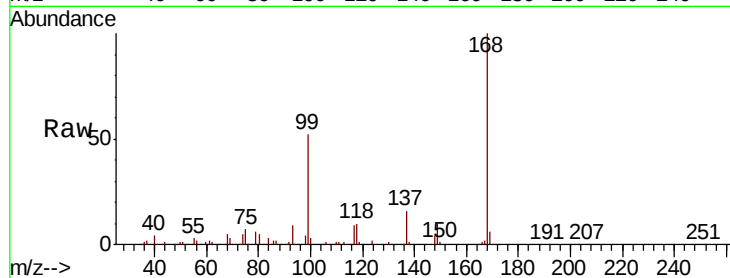
ClientSampled :

Tot Ion:168 Resp: 162957

Ion Ratio Lower Upper

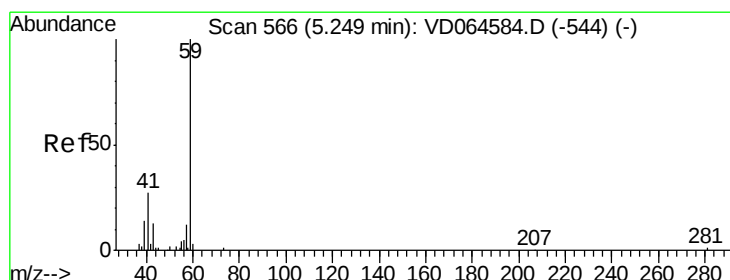
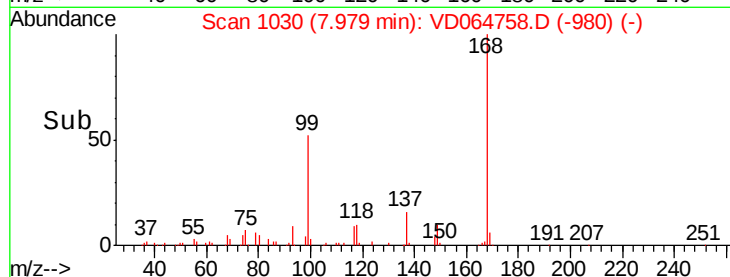
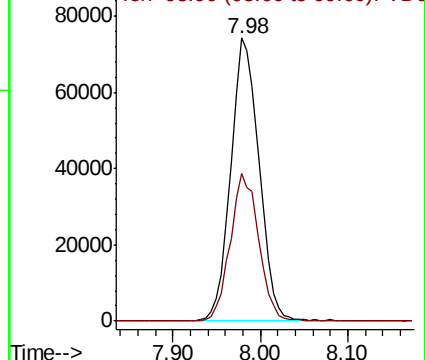
168 100

99 52.4 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 3.789 ug/l

RT: 5.25 min Scan# 566

Delta R.T. 0.00 min

Lab File: VD064758.D

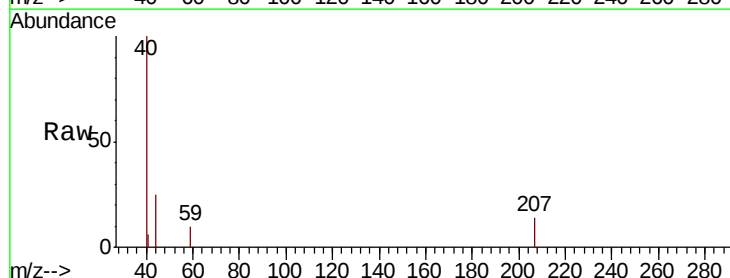
Acq: 04 Jan 2020 04:00

Tgt Ion: 59 Resp: 312

Ion Ratio Lower Upper

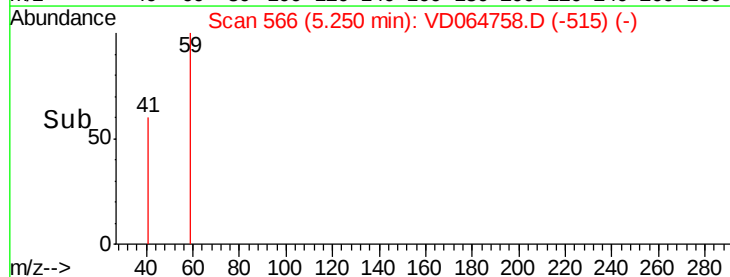
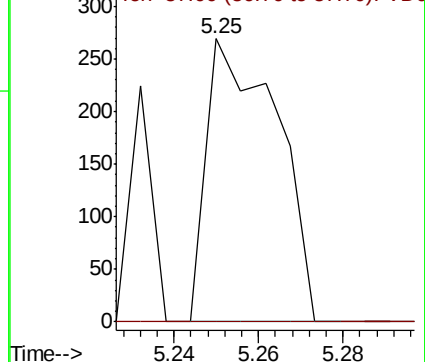
59 100

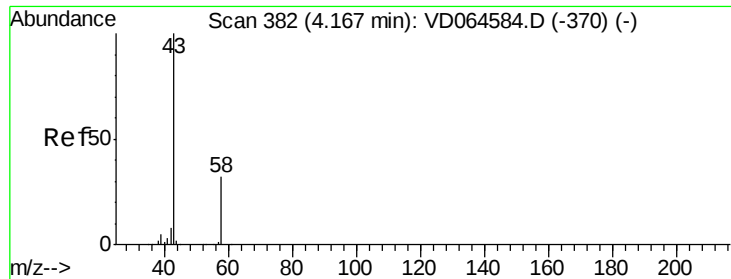
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

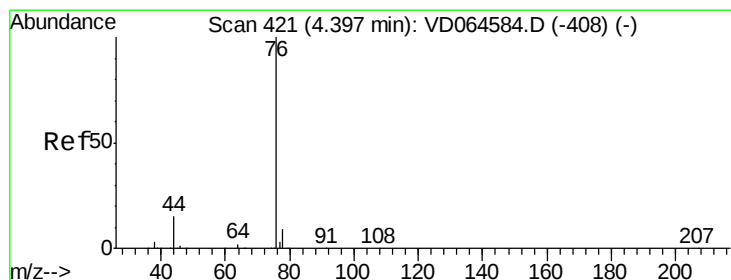
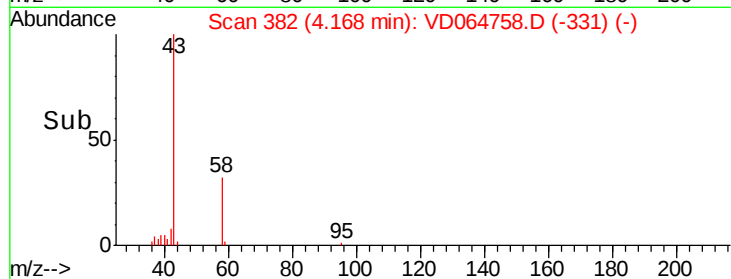
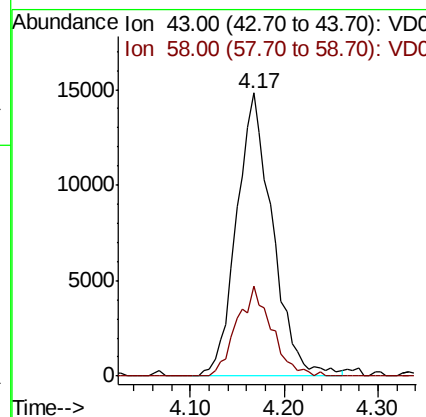
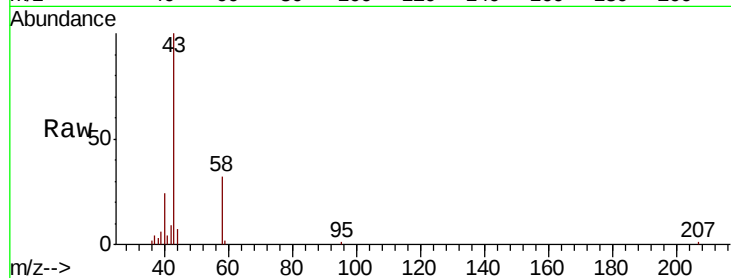




#16
Acetone
Concen: 124.612 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.00 min
Lab File: VD064758.D
Acq: 04 Jan 2020 04:00

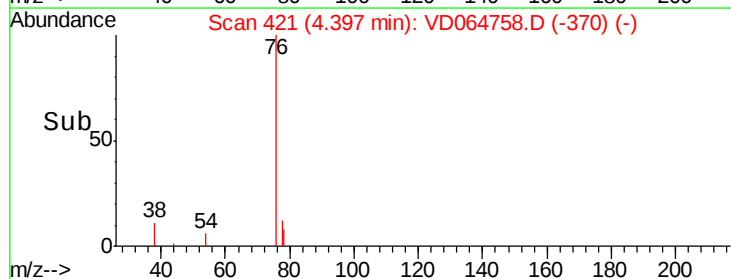
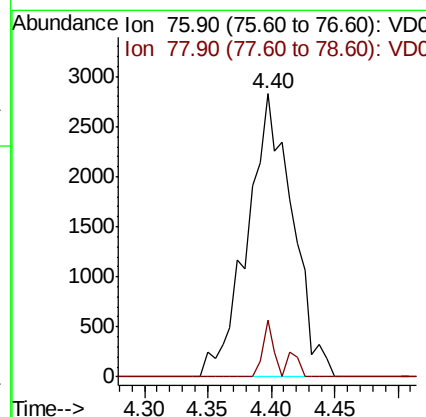
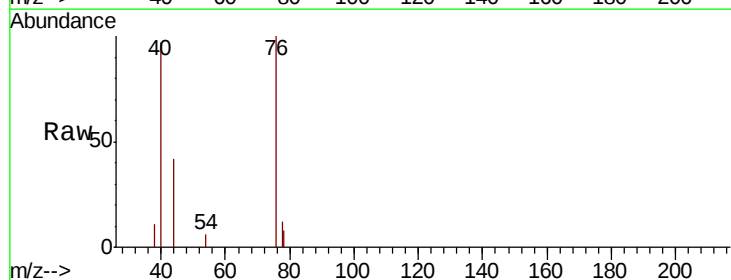
Instrument :
MSVOA_D
ClientSampleId :

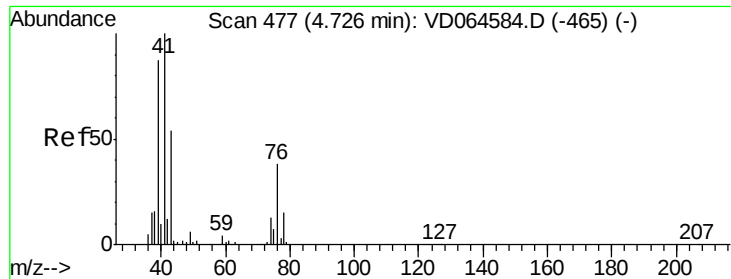
Tot Ion: 43 Resp: 39337
Ion Ratio Lower Upper
43 100
58 32.0 25.8 38.6



#17
Carbon Disulfide
Concen: 1.513 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.00 min
Lab File: VD064758.D
Acq: 04 Jan 2020 04:00

Tgt Ion: 76 Resp: 7014
Ion Ratio Lower Upper
76 100
78 20.2 7.3 10.9#

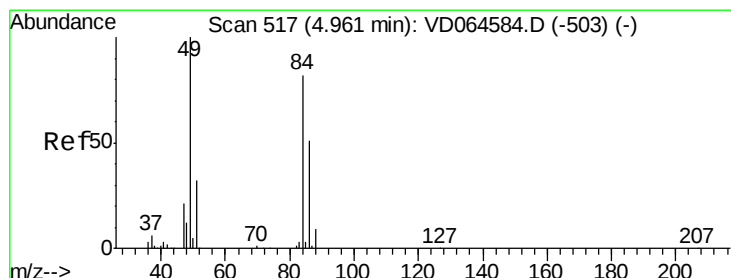
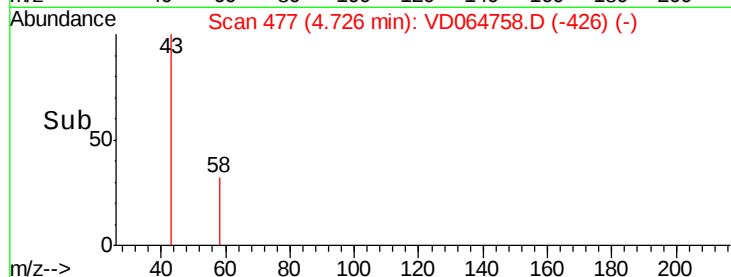
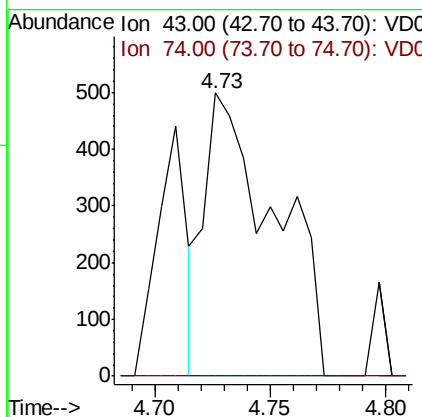
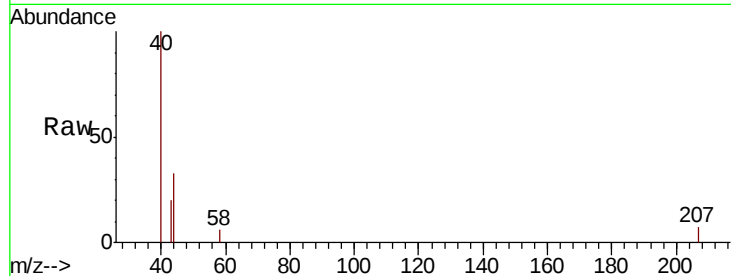




#18
Methyl Acetate
Concen: 1.295 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD064758.D
Acq: 04 Jan 2020 04:00

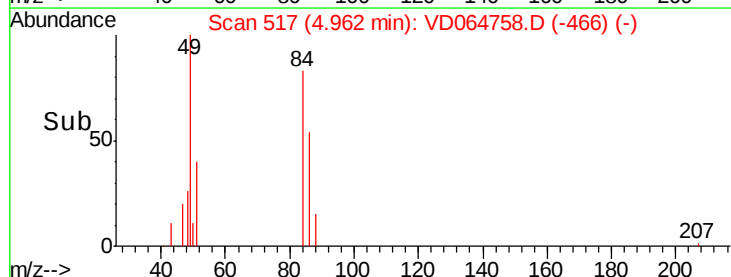
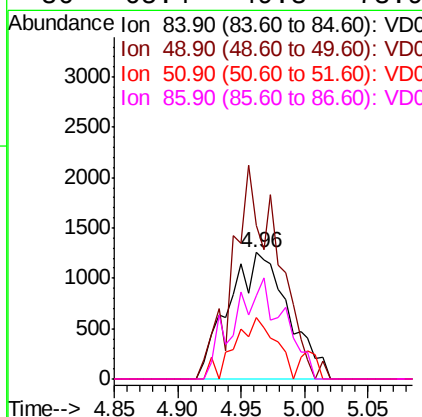
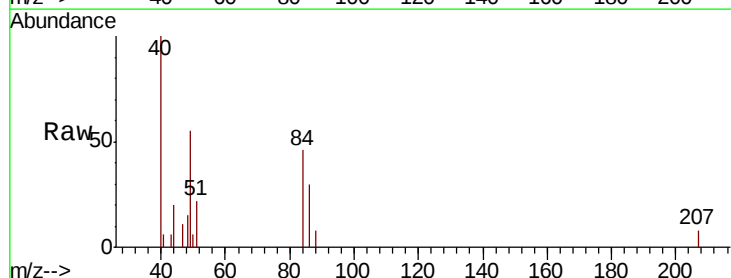
Instrument :
MSVOA_D
ClientSampleId :

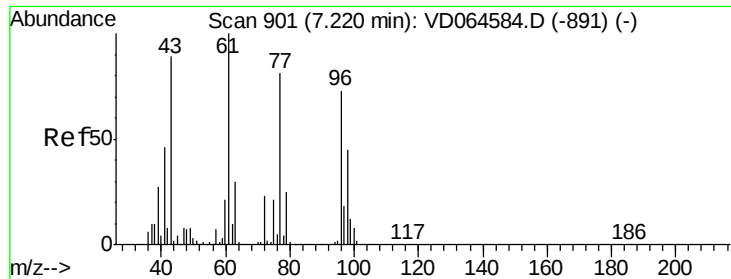
Tot Ion: 43 Resp: 1048
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064758.D
Acq: 04 Jan 2020 04:00

Tgt Ion: 84 Resp: 4128
Ion Ratio Lower Upper
84 100
49 121.2 97.2 145.8
51 48.5 31.4 47.0#
86 65.4 49.3 73.9





#25

2-Butanone

Concen: 25.333 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064758.D

Acq: 04 Jan 2020 04:00

Instrument :

MSVOA_D

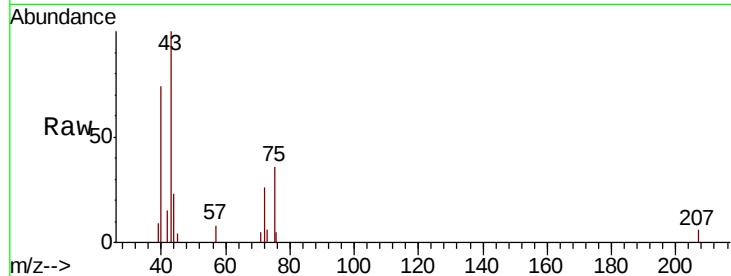
ClientSampleId :

Tot Ion: 43 Resp: 10006

Ion Ratio Lower Upper

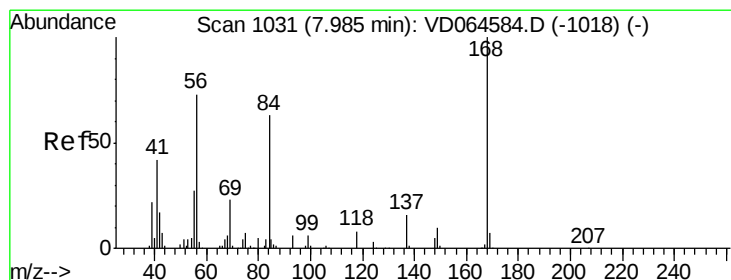
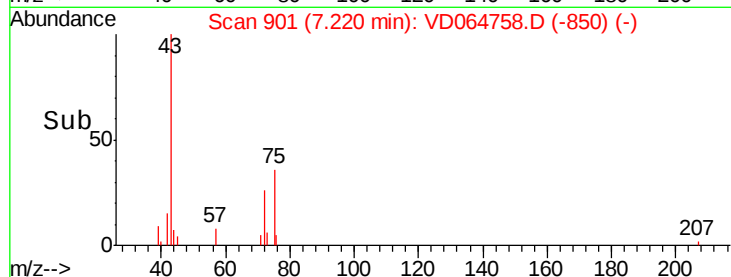
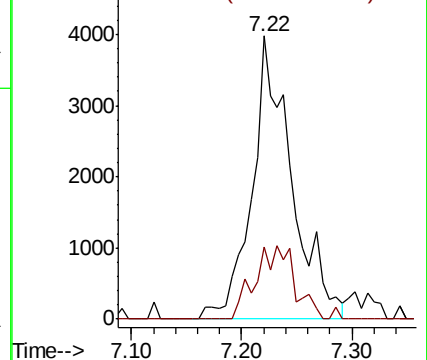
43 100

72 25.7 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.556 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064758.D

Acq: 04 Jan 2020 04:00

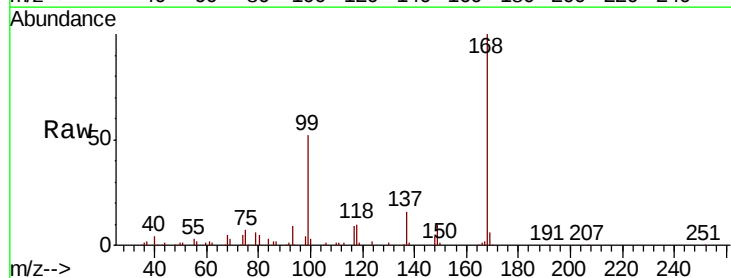
Tgt Ion: 56 Resp: 4168

Ion Ratio Lower Upper

56 100

69 144.8 24.7 37.1#

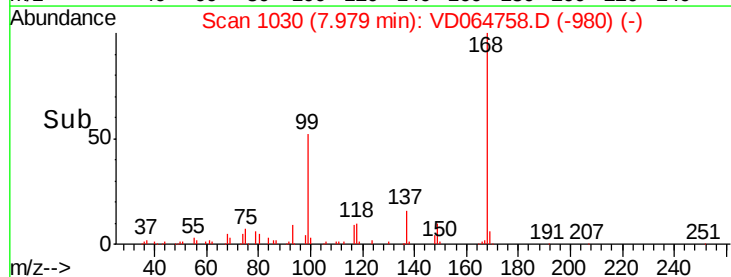
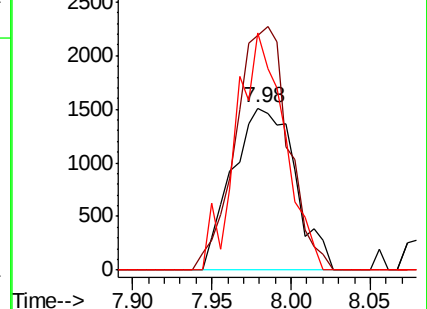
84 146.6 69.4 104.2#

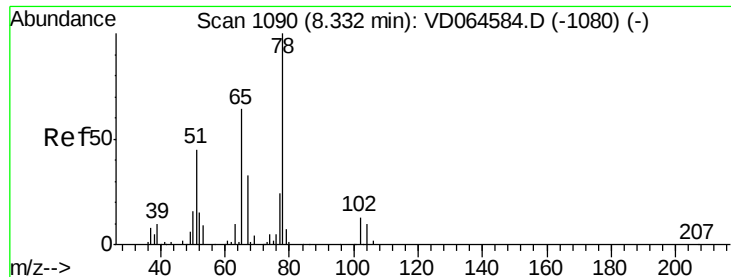


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 72.909 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064758.D

Acq: 04 Jan 2020 04:00

Instrument :

MSVOA_D

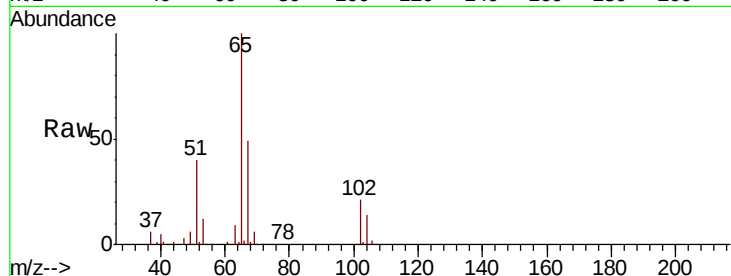
ClientSampleId :

Tot Ion: 65 Resp: 104766

Ion Ratio Lower Upper

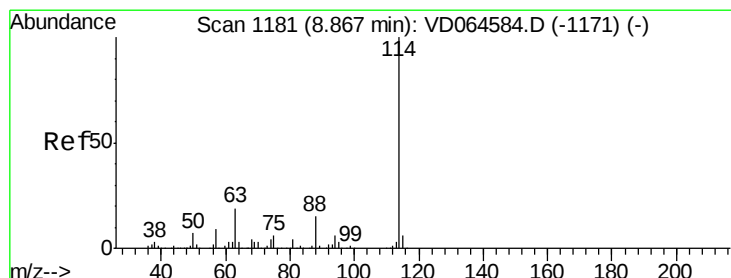
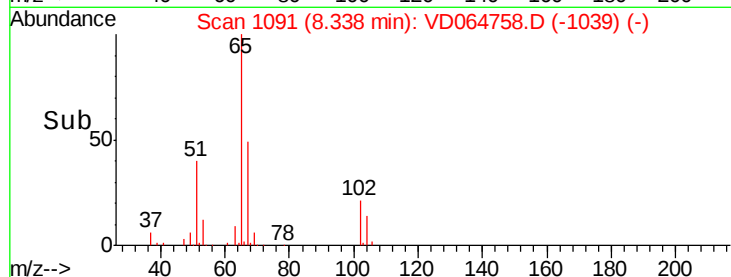
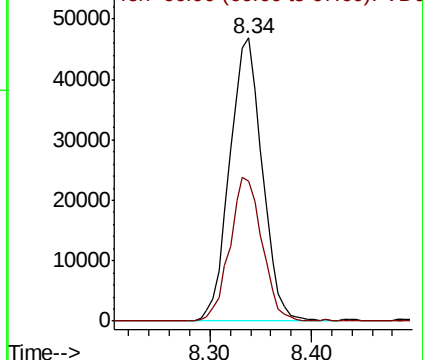
65 100

67 50.2 0.0 106.2



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: VD064758.D

Acq: 04 Jan 2020 04:00

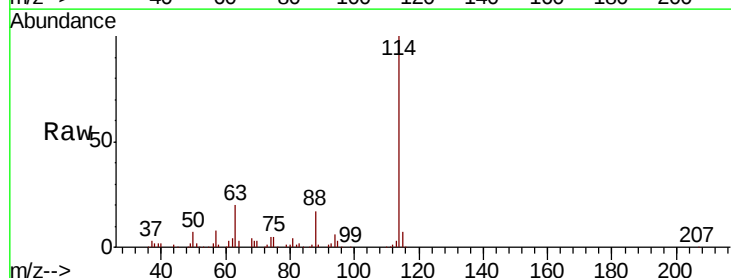
Tgt Ion: 114 Resp: 255884

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.0

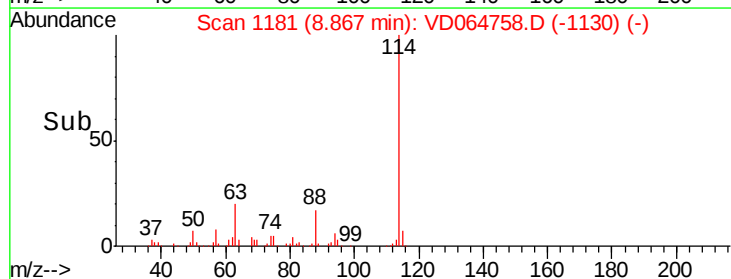
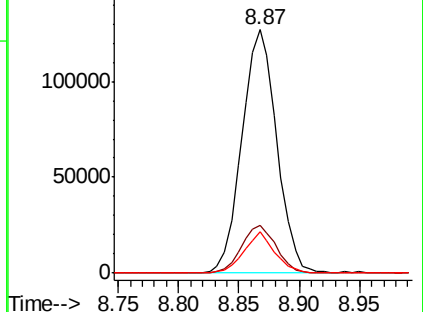
88 16.8 0.0 29.2

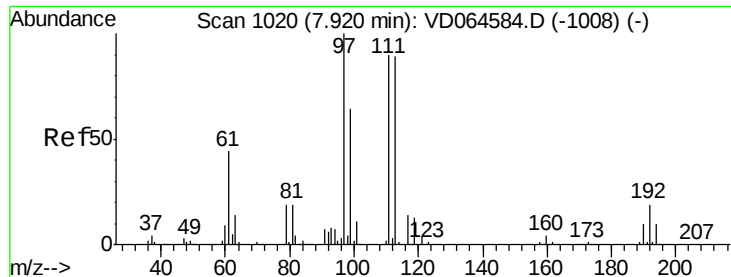


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

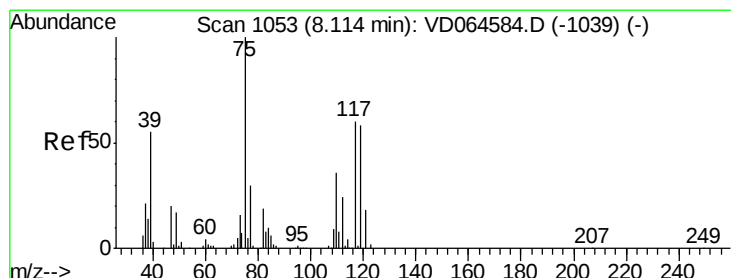
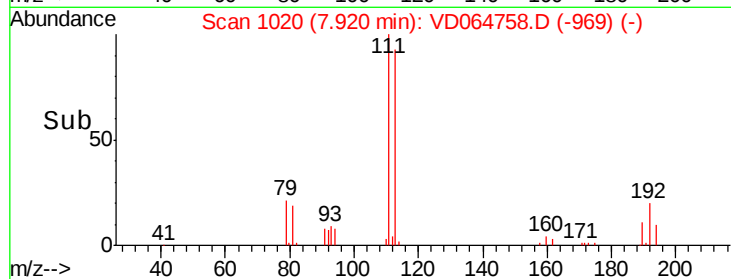
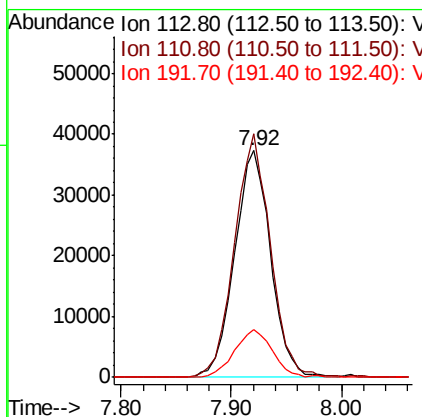
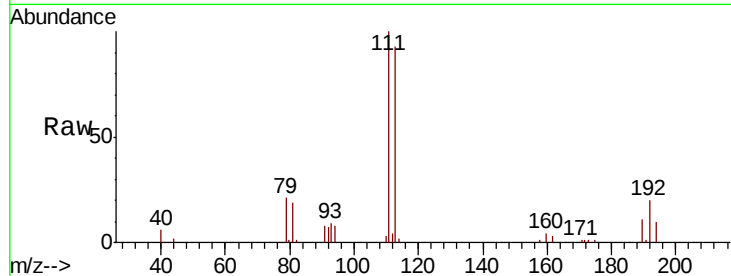




#35
 Dibromofluoromethane
 Concen: 54.652 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064758.D
 Acq: 04 Jan 2020 04:00

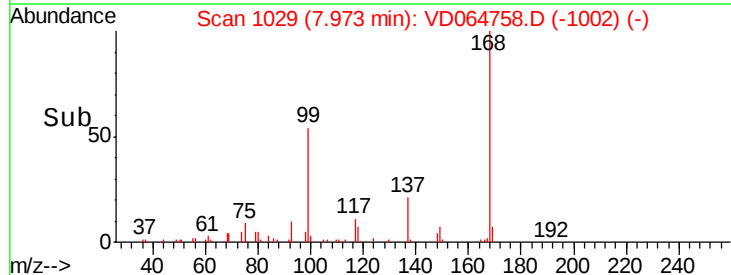
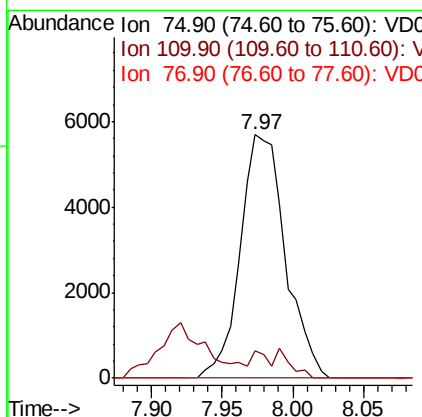
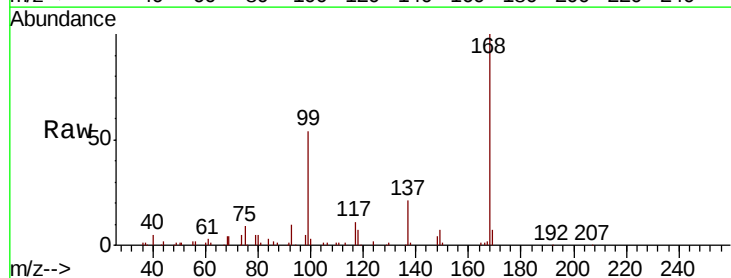
Instrument :
 MSVOA_D
 ClientSampled :

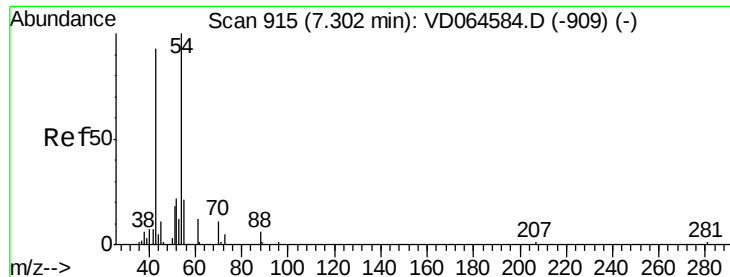
Tot Ion	Ratio	Lower	Upper
113	100		
111	106.2	80.6	121.0
192	22.1	17.9	26.9



#36
 1,1-Dichloropropene
 Concen: 5.184 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD064758.D
 Acq: 04 Jan 2020 04:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	1.9	18.1	54.1#
77	0.0	24.2	36.4#

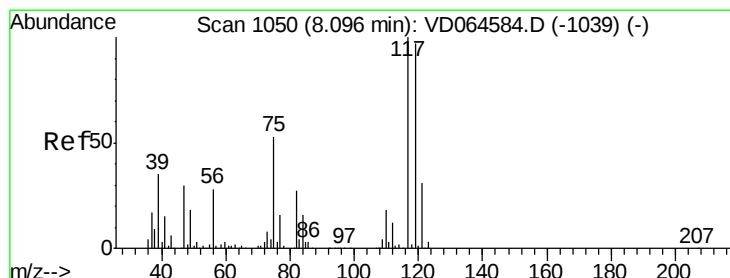
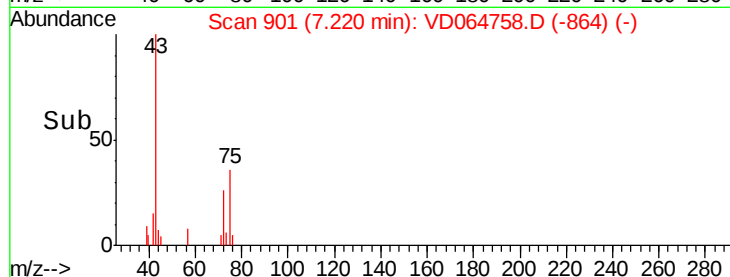
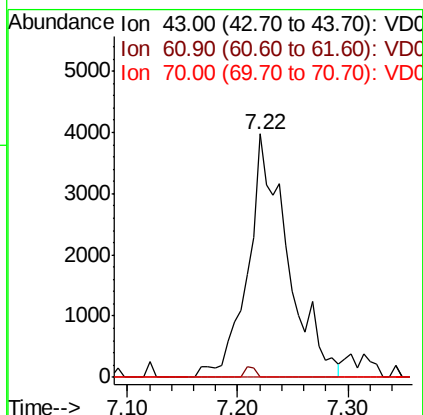
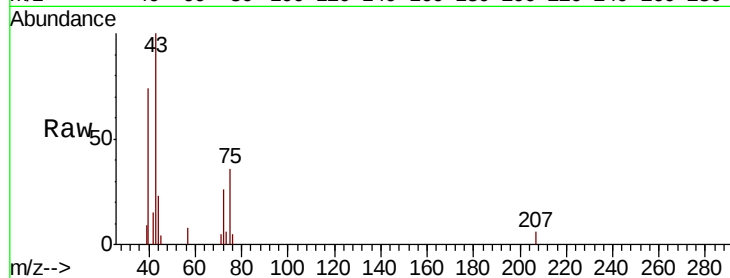




#37
Ethyl Acetate
Concen: 10.342 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.08 min
Lab File: VD064758.D
Acq: 04 Jan 2020 04:00

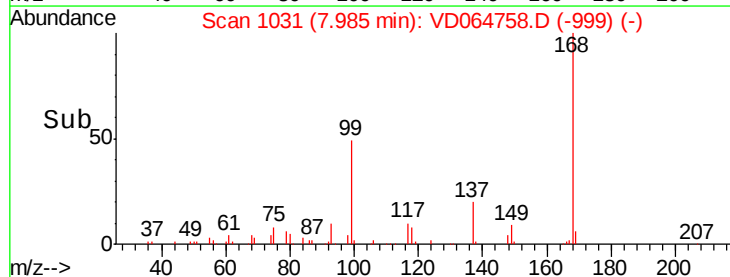
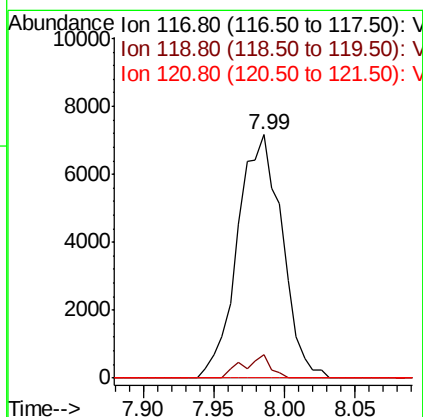
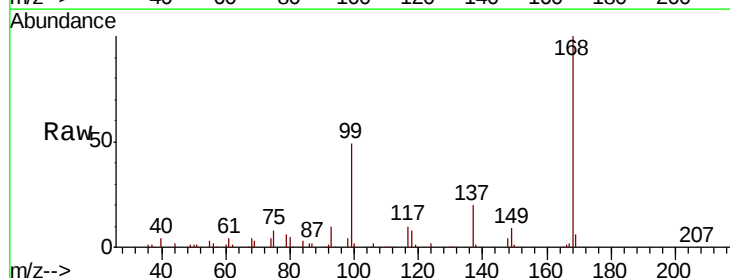
Instrument :
MSVOA_D
ClientSampled :

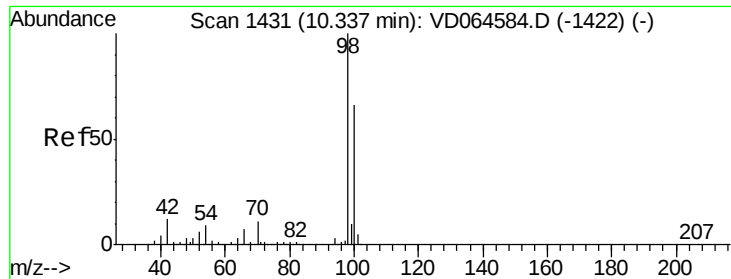
Tot Ion: 43 Resp: 10006
Ion Ratio Lower Upper
43 100
61 1.2 10.3 15.5#
70 0.0 7.6 11.4#



#38
Carbon Tetrachloride
Concen: 6.016 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064758.D
Acq: 04 Jan 2020 04:00

Tgt Ion: 117 Resp: 15798
Ion Ratio Lower Upper
117 100
119 9.5 77.3 115.9#
121 0.0 25.0 37.6#

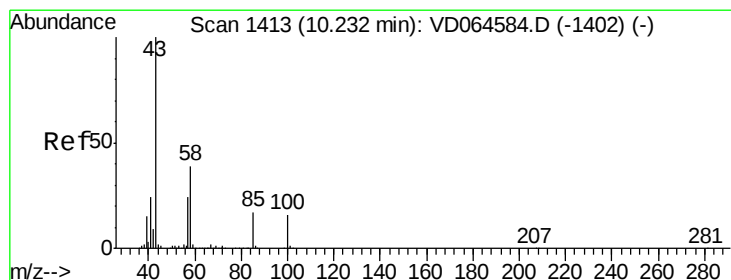
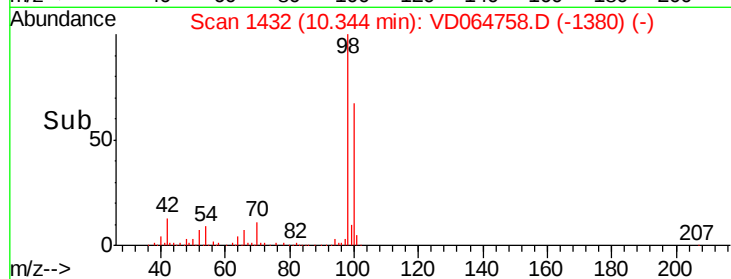
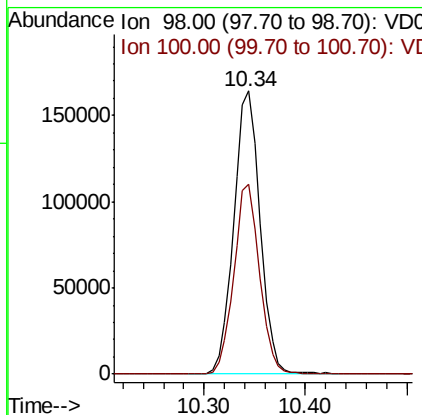
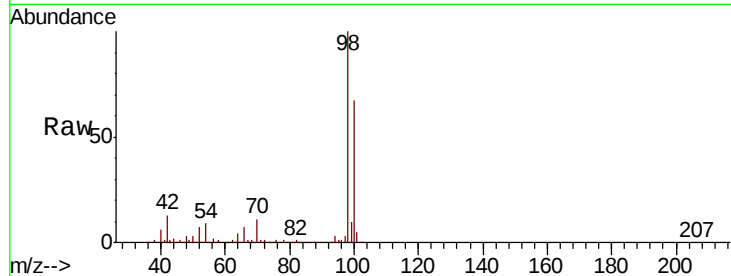




#50
Toluene-d8
Concen: 49.320 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064758.D
Acq: 04 Jan 2020 04:00

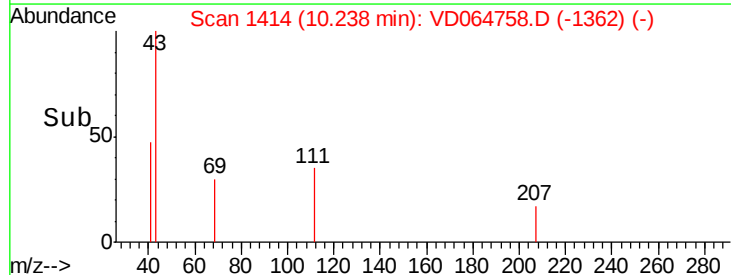
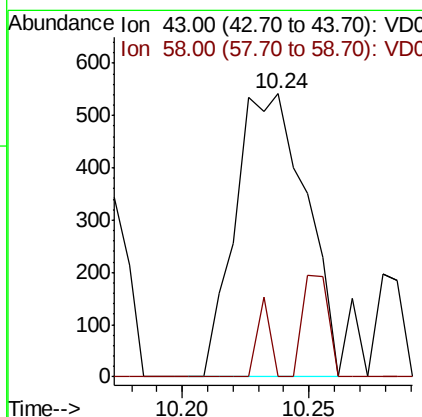
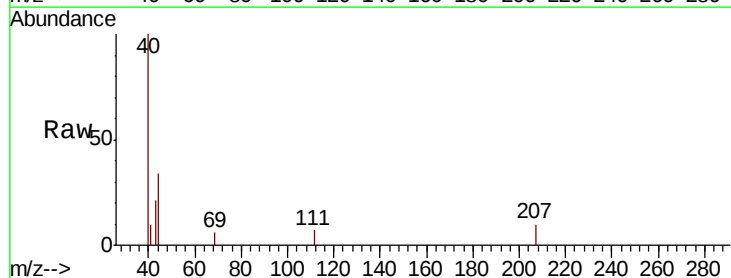
Instrument :
MSVOA_D
ClientSampleId :

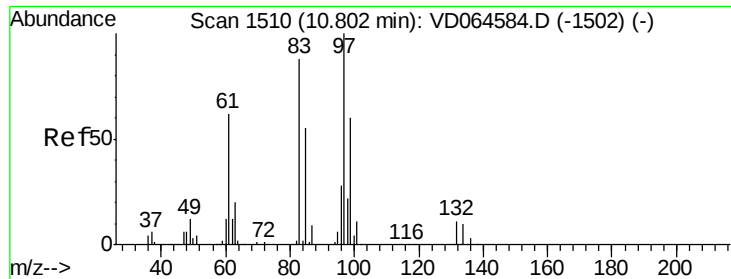
Tot Ion: 98 Resp: 296540
Ion Ratio Lower Upper
98 100
100 65.3 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.105 ug/l
RT: 10.24 min Scan# 1414
Delta R.T. 0.01 min
Lab File: VD064758.D
Acq: 04 Jan 2020 04:00

Tgt Ion: 43 Resp: 1052
Ion Ratio Lower Upper
43 100
58 13.0 30.2 45.2#





#55

1,1,2-Trichloroethane

Concen: 1.052 ug/l

RT: 10.78 min Scan# 1507

Delta R.T. -0.02 min

Lab File: VD064758.D

Acq: 04 Jan 2020 04:00

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 97 Resp: 1269

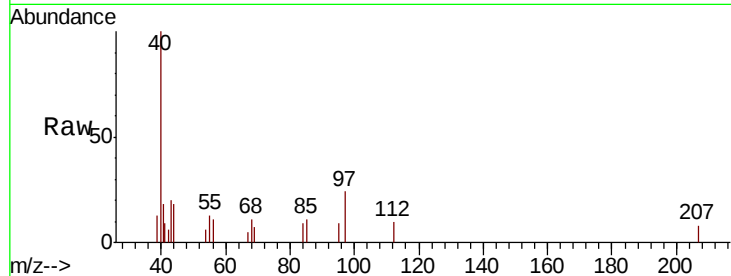
Ion Ratio Lower Upper

97 100

83 0.0 70.2 105.4#

85 48.3 44.0 66.0

99 0.0 47.8 71.6#

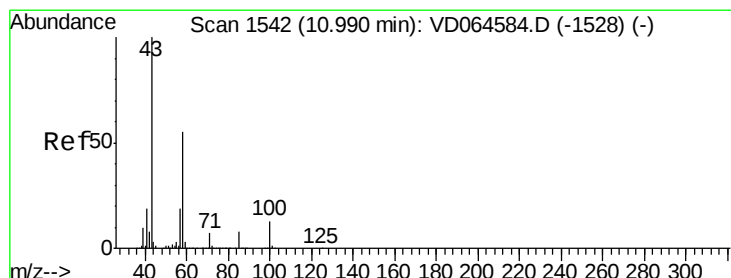
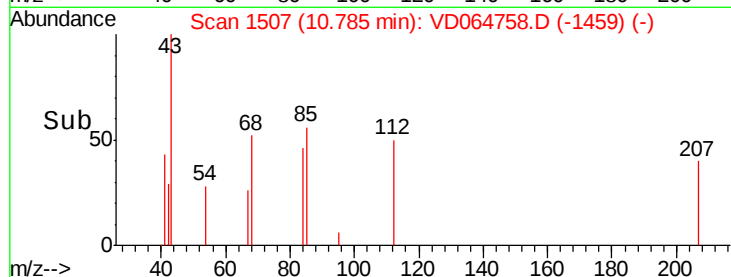
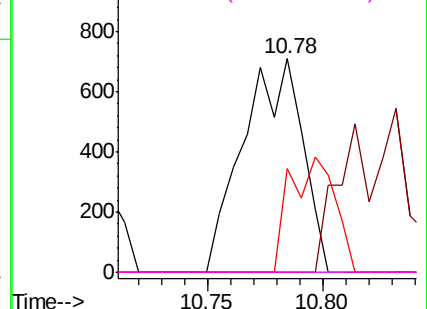


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#59

2-Hexanone

Concen: 7.674 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.03 min

Lab File: VD064758.D

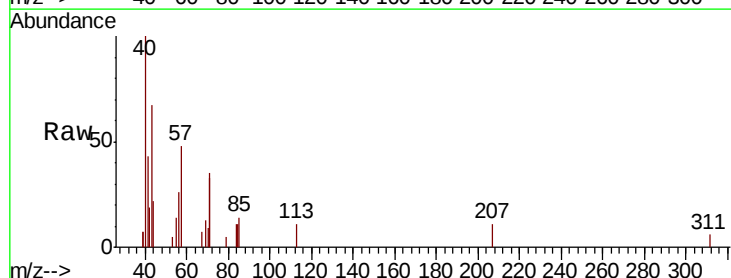
Acq: 04 Jan 2020 04:00

Tgt Ion: 43 Resp: 4958

Ion Ratio Lower Upper

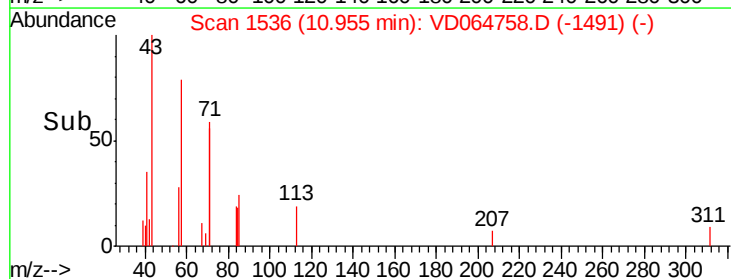
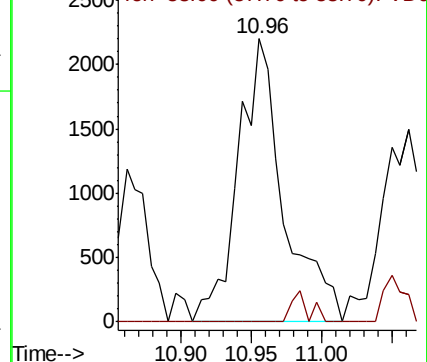
43 100

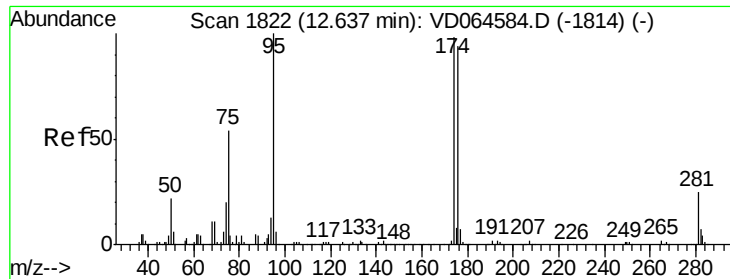
58 0.0 26.4 79.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

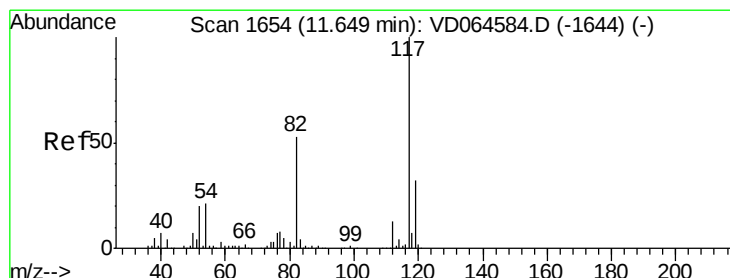
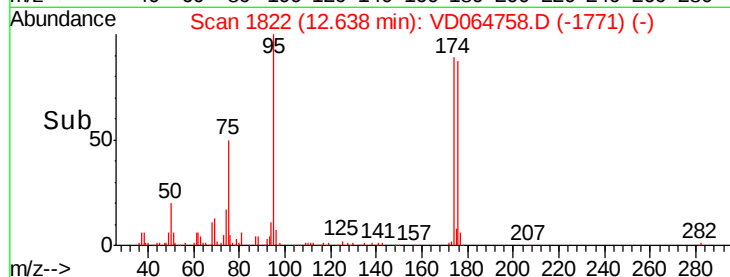
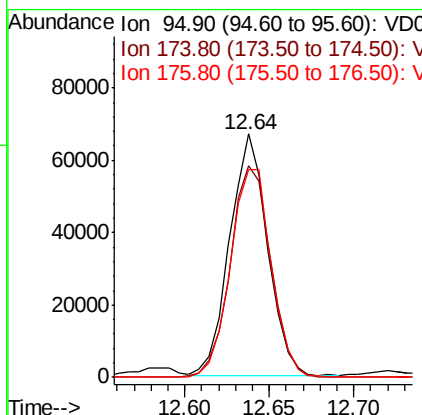
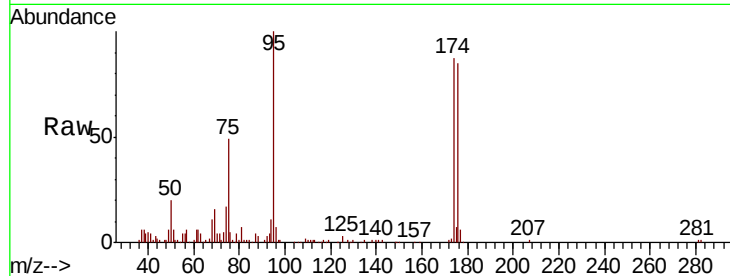




#62
4-Bromofluorobenzene
Concen: 54.899 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064758.D
Acq: 04 Jan 2020 04:00

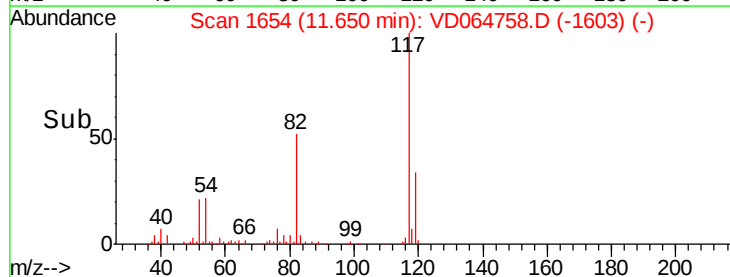
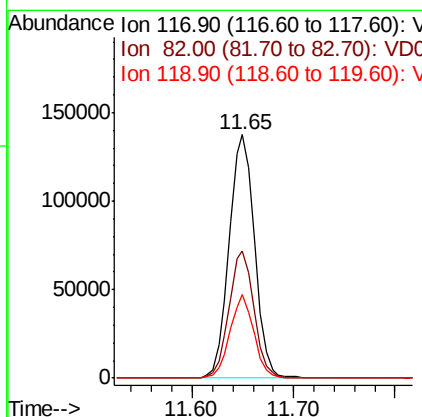
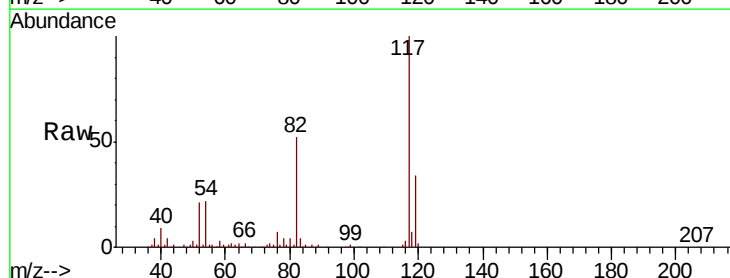
Instrument :
MSVOA_D
ClientSampleId :

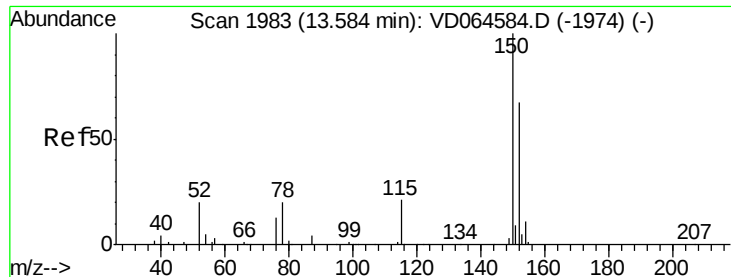
Tot Ion: 95 Resp: 104376
Ion Ratio Lower Upper
95 100
174 93.1 0.0 193.2
176 92.8 0.0 184.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064758.D
Acq: 04 Jan 2020 04:00

Tgt Ion: 117 Resp: 239103
Ion Ratio Lower Upper
117 100
82 52.1 42.2 63.4
119 34.3 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064758.D

Acq: 04 Jan 2020 04:00

Instrument :

MSVOA_D

ClientSampled :

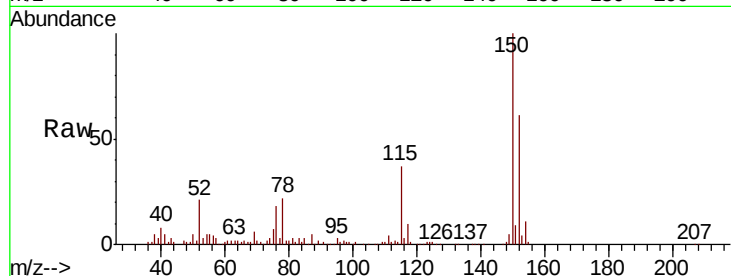
Tot Ion:152 Resp: 116098

Ion Ratio Lower Upper

152 100

115 55.2 27.8 83.4

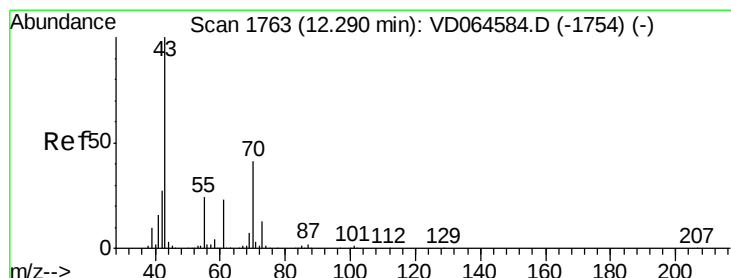
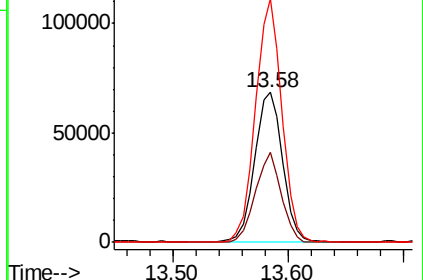
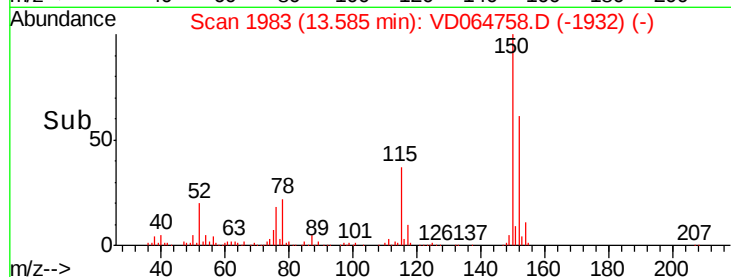
150 152.8 0.0 351.4



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



#74

N-ethyl acetate

Concen: 7.945 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD064758.D

Acq: 04 Jan 2020 04:00

Tgt Ion: 43 Resp: 14090

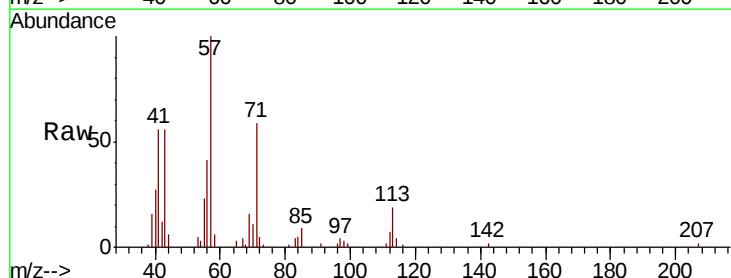
Ion Ratio Lower Upper

43 100

70 23.3 33.4 50.0#

55 0.0 19.4 29.0#

61 0.0 18.3 27.5#

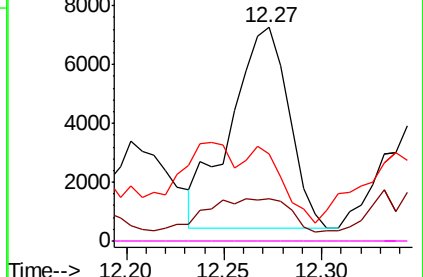
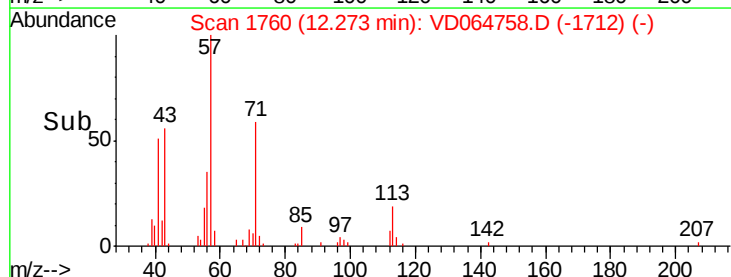


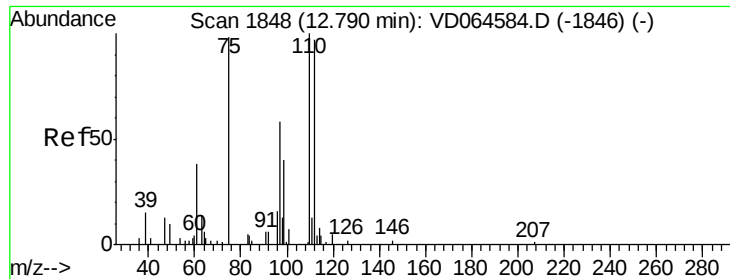
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#76

1,2,3-Trichloropropane

Concen: 59.837 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064758.D

Acq: 04 Jan 2020 04:00

Instrument :

MSVOA_D

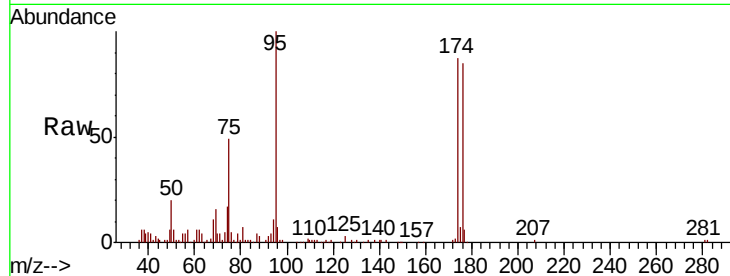
ClientSampleId :

Tot Ion: 75 Resp: 54857

Ion Ratio Lower Upper

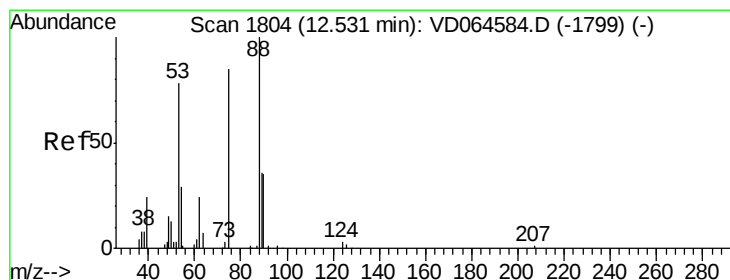
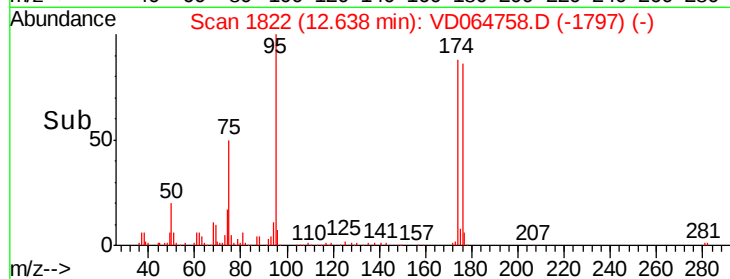
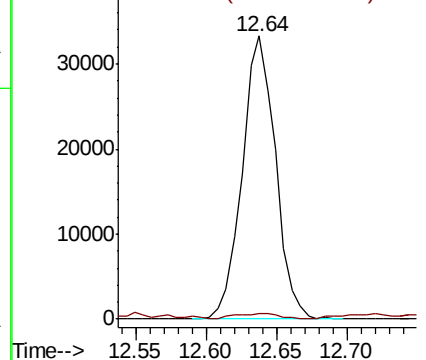
75 100

77 2.8 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: 125.146 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064758.D

Acq: 04 Jan 2020 04:00

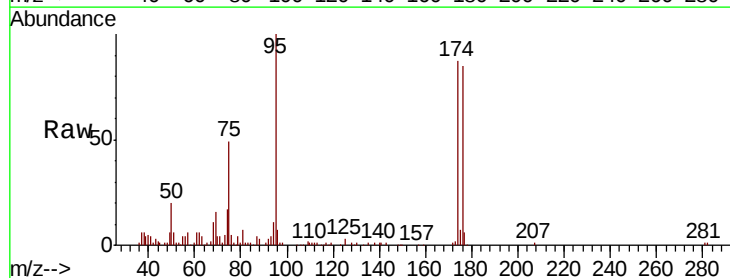
Tgt Ion: 75 Resp: 54857

Ion Ratio Lower Upper

75 100

53 0.7 78.8 118.2#

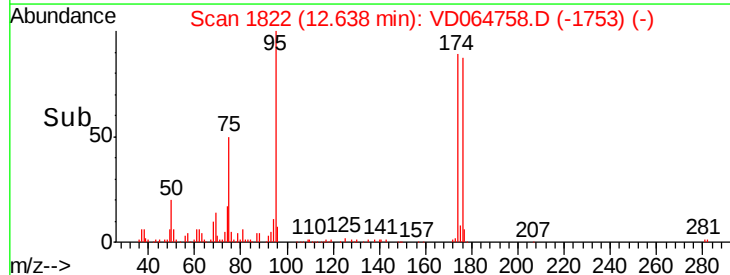
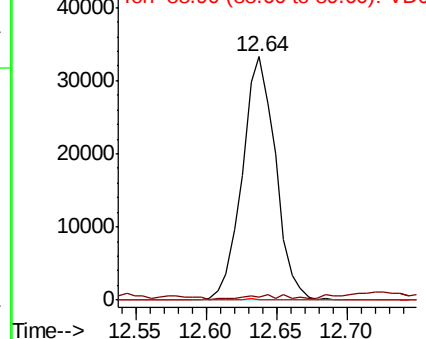
89 0.1 38.3 57.5#

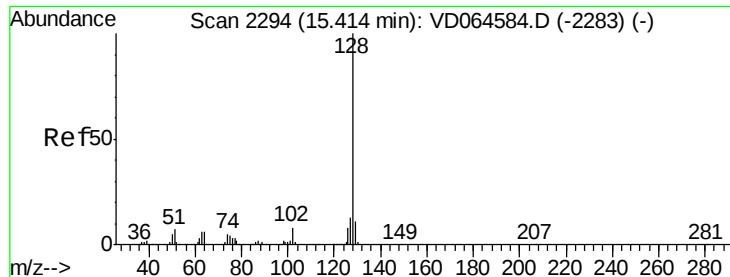


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95

Naphthalene

Concen: 1.545 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD064758.D

Acq: 04 Jan 2020 04:00

Instrument :

MSVOA_D

ClientSampled :

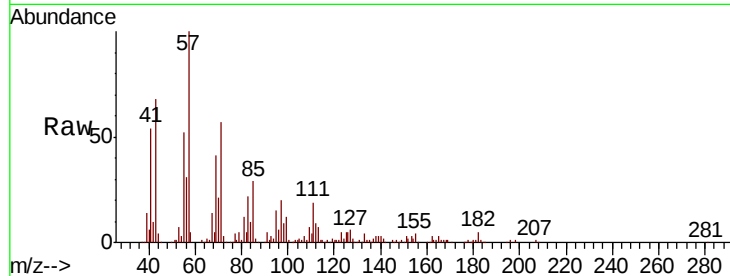
Tot Ion:128 Resp: 5963

Ion Ratio Lower Upper

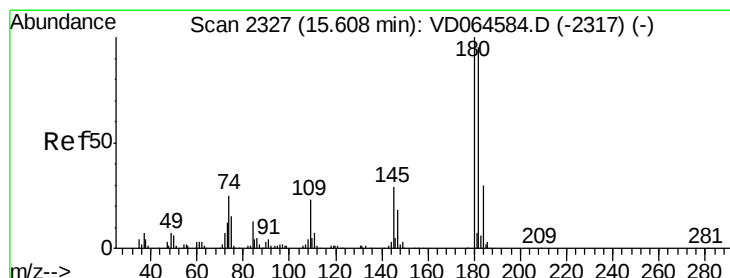
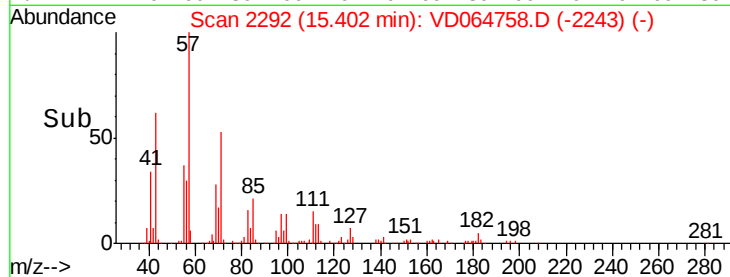
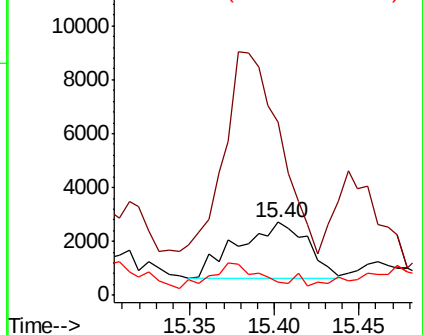
128 100

127 0.0 10.3 15.5#

129 2.1 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.681 ug/l

RT: 15.63 min Scan# 2330

Delta R.T. 0.02 min

Lab File: VD064758.D

Acq: 04 Jan 2020 04:00

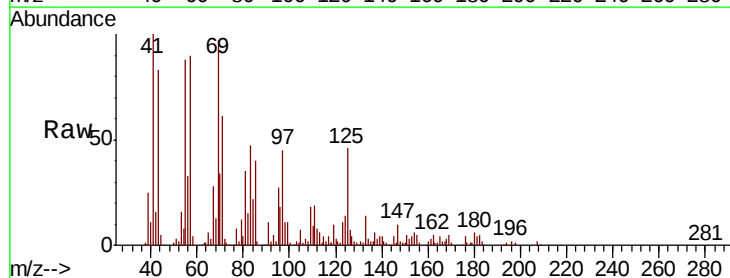
Tgt Ion:180 Resp: 3501

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.7#

145 0.0 14.9 44.7#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

