

Data File : VD067775.D
Acq On : 24 Nov 2020 18:32
Operator : VA/SY
Sample : L4597-01RE
Misc : 6.98G/5.00ml/MSVOA_D/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
BU-03-112320

Quant Time: Nov 25 02:06:25 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 24 00:51:35 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	236669	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	365233	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	427244	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	231857	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	115546	50.21	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	100.42%		
35) Dibromofluoromethane	7.92	113	116206	50.00	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	100.00%		
50) Toluene-d8	10.34	98	446874	52.59	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	105.18%		
62) 4-Bromofluorobenzene	12.64	95	201246	69.28	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	138.56%		

Target Compounds

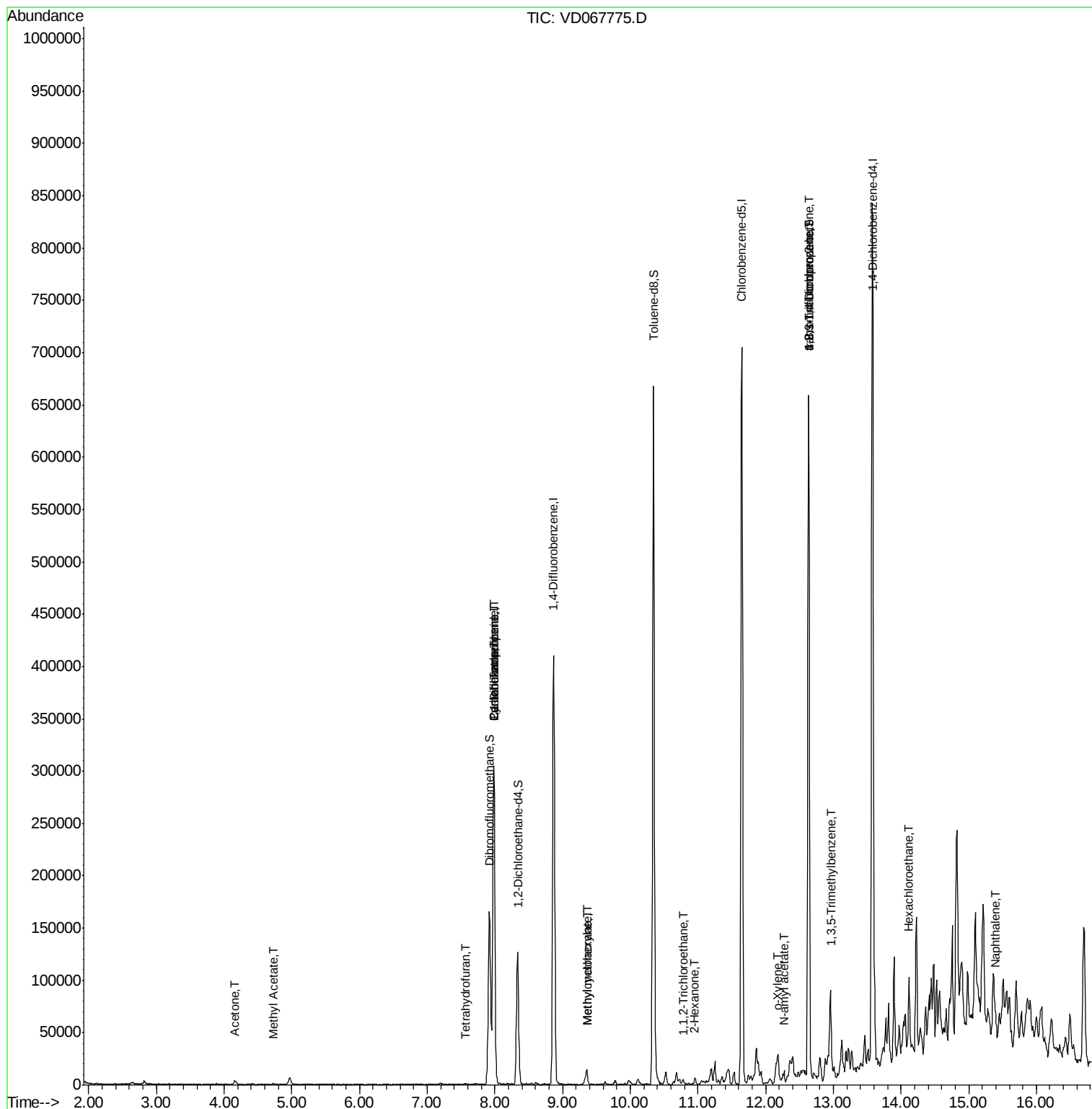
					Qvalue	
11) Tert butyl alcohol	5.20	59	653	Below Cal	#	87
16) Acetone	4.16	43	6738	22.665	ug/l	98
18) Methyl Acetate	4.73	43	1055	1.764	ug/l #	55
20) Methylene Chloride	4.97	84	4813	Below Cal	#	70
29) Tetrahydrofuran	7.58	42	528	2.784	ug/l #	67
31) Cyclohexane	7.98	56	5172	1.858	ug/l #	40
36) 1,1-Dichloropropene	7.98	75	15870	5.064	ug/l #	50
38) Carbon Tetrachloride	7.99	117	23597	5.194	ug/l #	17
39) Methylcyclohexane	9.36	83	6671	1.799	ug/l	92
48) Methyl methacrylate	9.36	41	2504	2.976	ug/l #	78
55) 1,1,2-Trichloroethane	10.78	97	2151	1.333	ug/l #	18
59) 2-Hexanone	10.96	43	1876	3.355	ug/l #	20
69) o-Xylene	12.18	106	6623	1.289	ug/l	87
74) N-amyl acetate	12.27	43	2580	1.282	ug/l #	48
76) 1,2,3-Trichloropropane	12.64	75	106352	65.815	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.96	105	21084	1.589	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.64	75	106352	153.935	ug/l #	11
90) Hexachloroethane	14.11	117	3707	1.342	ug/l #	7
95) Naphthalene	15.40	128	11557	1.584	ug/l #	69

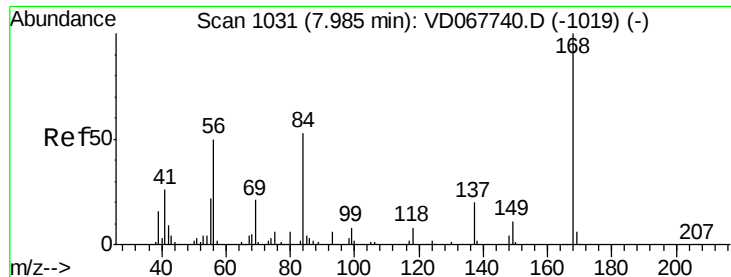
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

Instrument :

MSVOA_D

ClientSampleId :

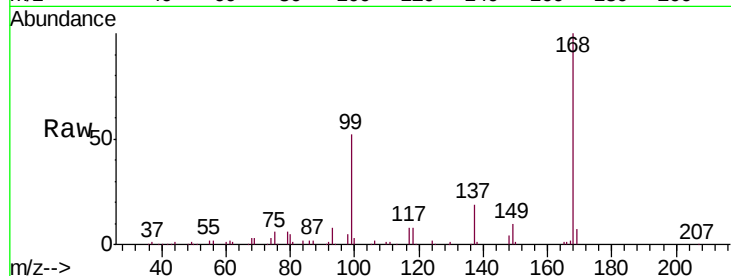
BU-03-112320

Tgt Ion:168 Resp: 236669

Ion Ratio Lower Upper

168 100

99 51.8 43.8 65.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

120000

100000

80000

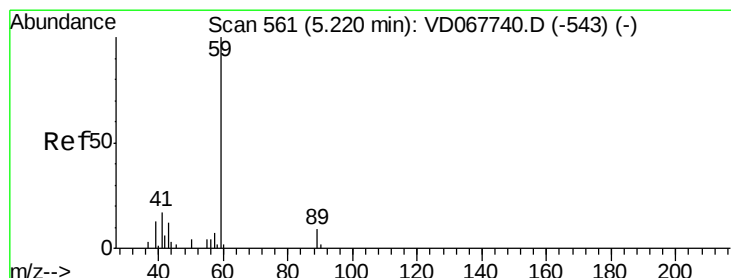
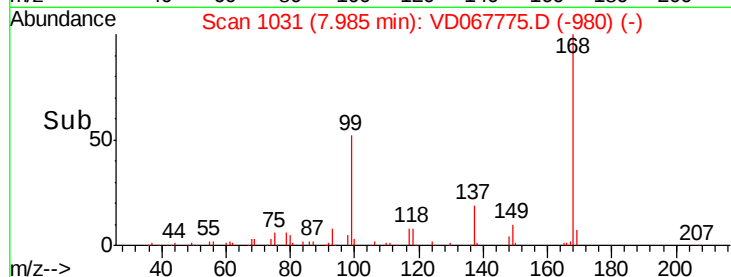
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD067775.D

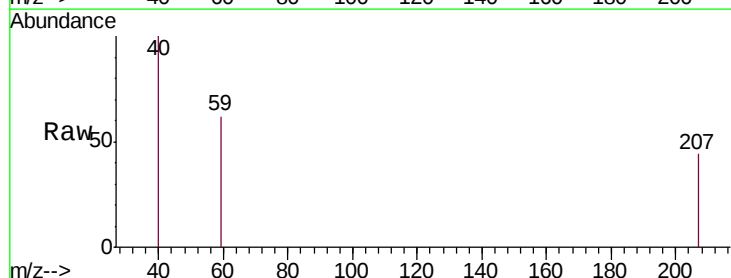
Acq: 24 Nov 2020 18:32

Tgt Ion: 59 Resp: 653

Ion Ratio Lower Upper

59 100

57 0.0 3.4 5.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.20

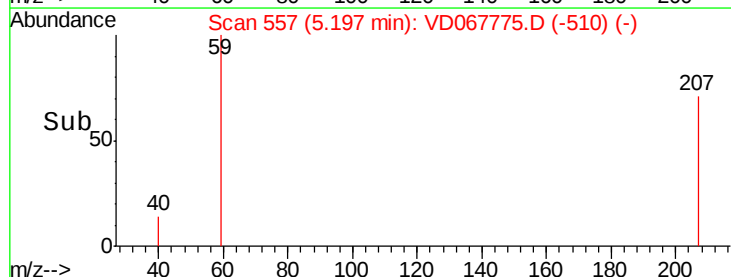
300

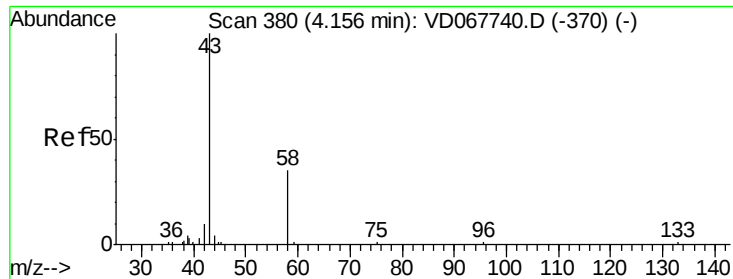
200

100

0

Time-->





#16

Acetone

Concen: 22.665 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

Instrument :

MSVOA_D

ClientSampleId :

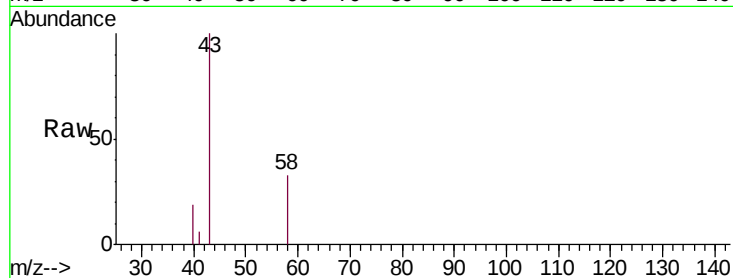
BU-03-112320

Tgt Ion: 43 Resp: 6738

Ion Ratio Lower Upper

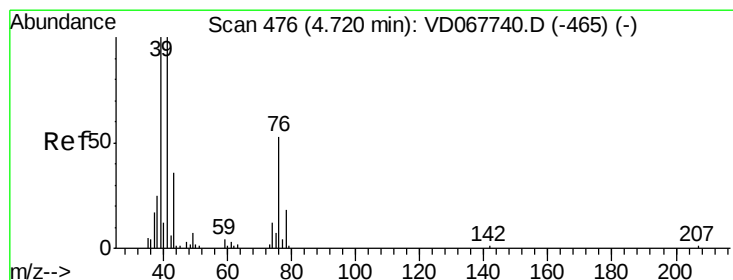
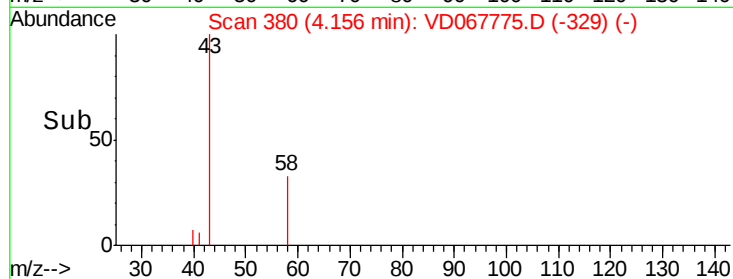
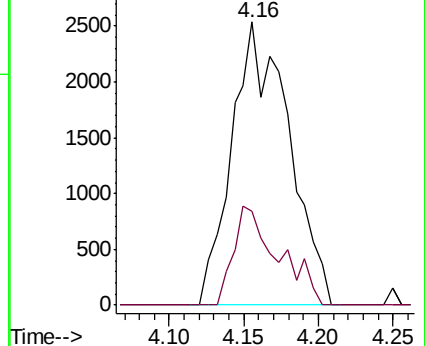
43 100

58 33.3 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 1.764 ug/l

RT: 4.73 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD067775.D

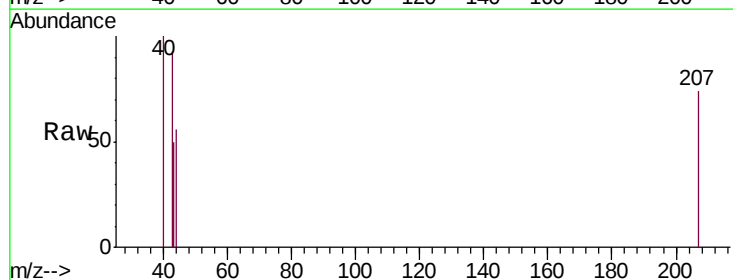
Acq: 24 Nov 2020 18:32

Tgt Ion: 43 Resp: 1055

Ion Ratio Lower Upper

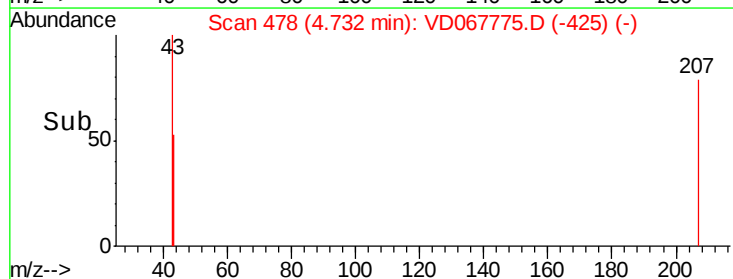
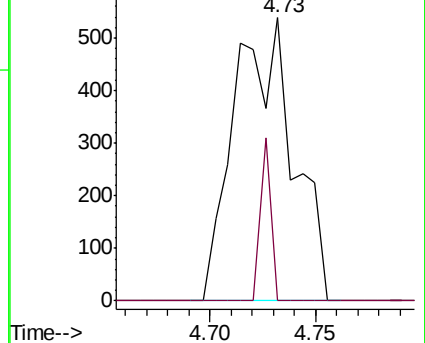
43 100

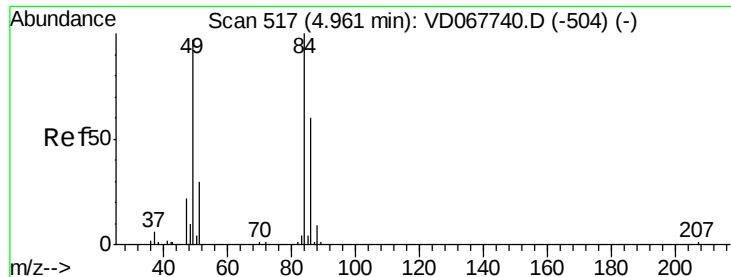
74 10.3 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

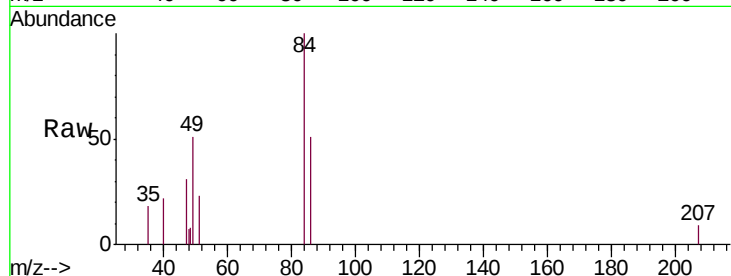




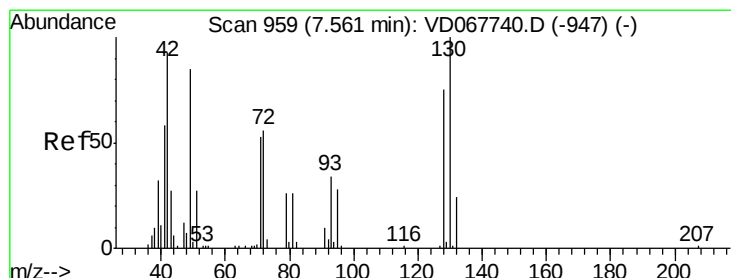
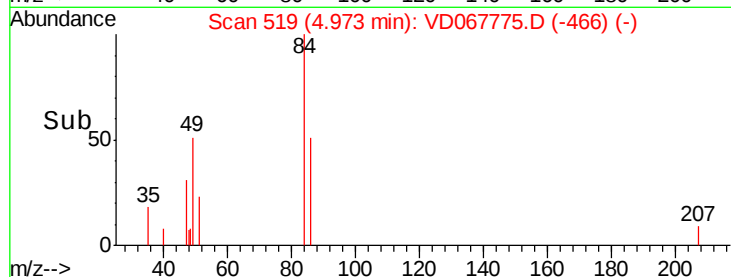
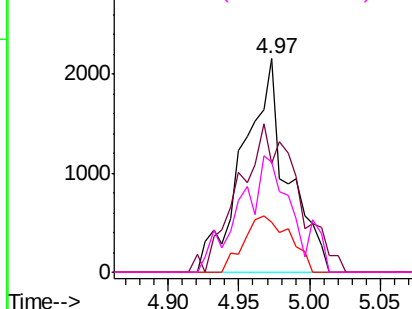
#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

Instrument :
MSVOA_D
ClientSampleId :
BU-03-112320

Tgt Ion: 84 Resp: 4813
Ion Ratio Lower Upper
84 100
49 50.9 77.4 116.2#
51 23.3 24.1 36.1#
86 51.4 48.2 72.2

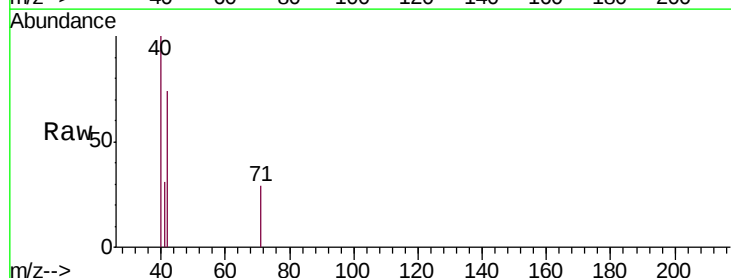


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

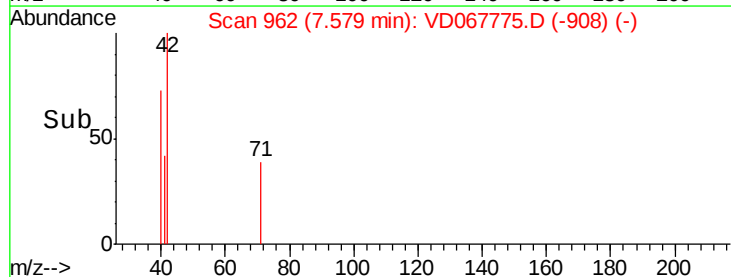
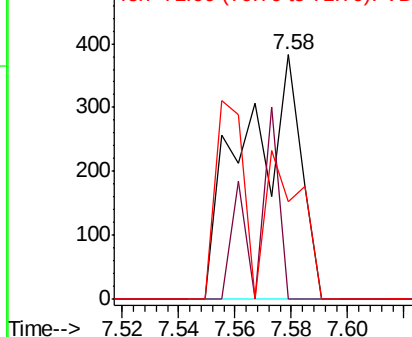


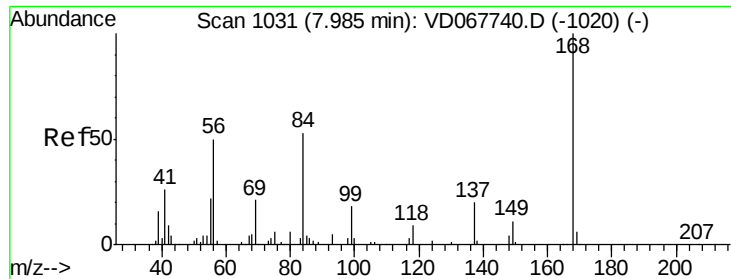
#29
Tetrahydrofuran
Concen: 2.784 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.02 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

Tgt Ion: 42 Resp: 528
Ion Ratio Lower Upper
42 100
72 32.4 49.3 73.9#
71 37.5 45.9 68.9#



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

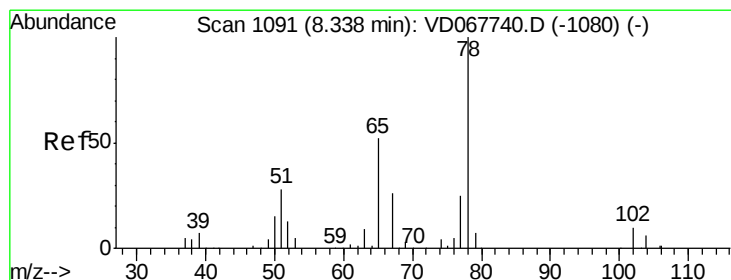
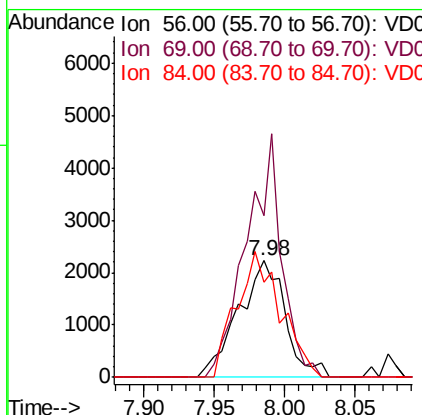
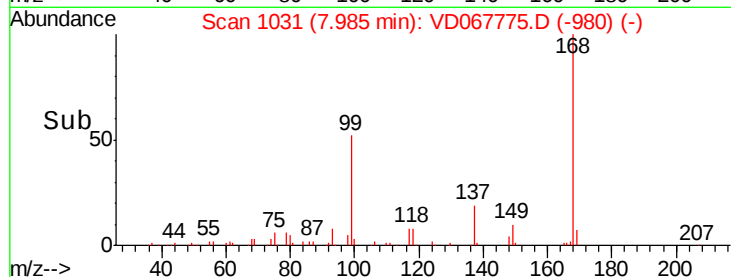
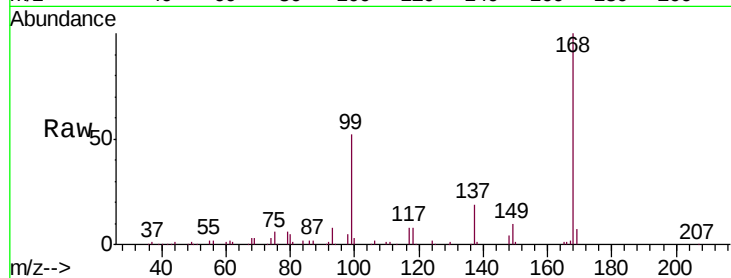




#31
Cyclohexane
Concen: 1.858 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

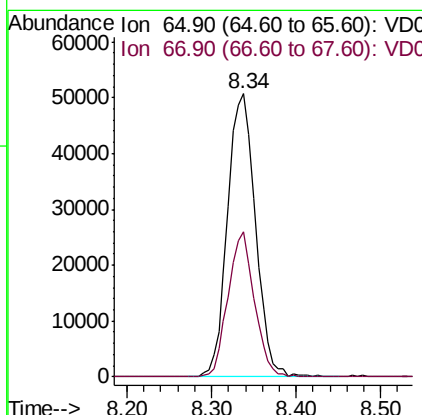
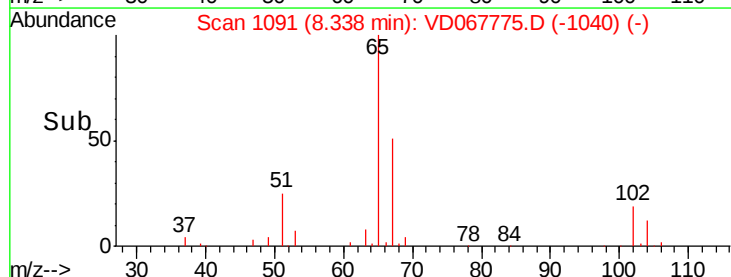
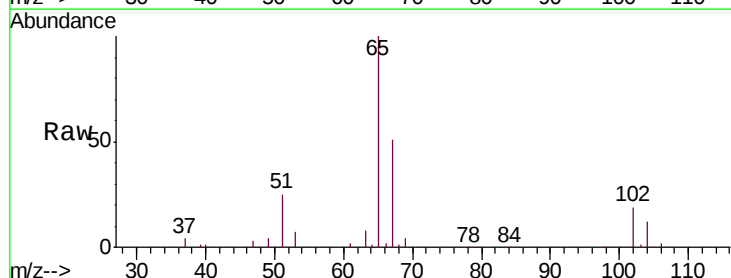
Instrument :
MSVOA_D
ClientSampleId :
BU-03-112320

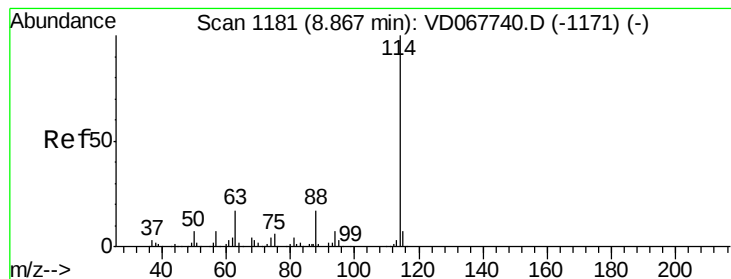
Tgt Ion: 56 Resp: 5172
Ion Ratio Lower Upper
56 100
69 138.1 33.2 49.8#
84 82.1 84.8 127.2#



#33
1,2-Dichloroethane-d4
Concen: 50.212 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

Tgt Ion: 65 Resp: 115546
Ion Ratio Lower Upper
65 100
67 48.2 0.0 101.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

Instrument :

MSVOA_D

ClientSampleId :

BU-03-112320

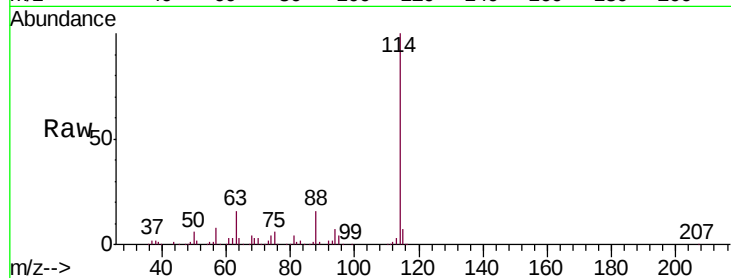
Tgt Ion:114 Resp: 365233

Ion Ratio Lower Upper

114 100

63 16.3 0.0 34.8

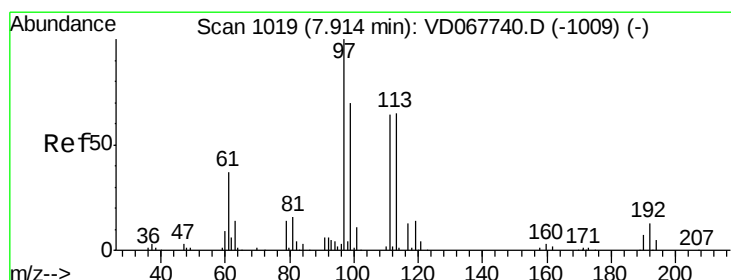
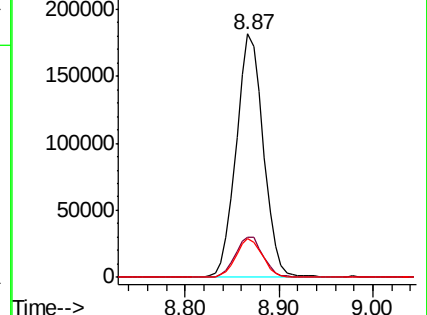
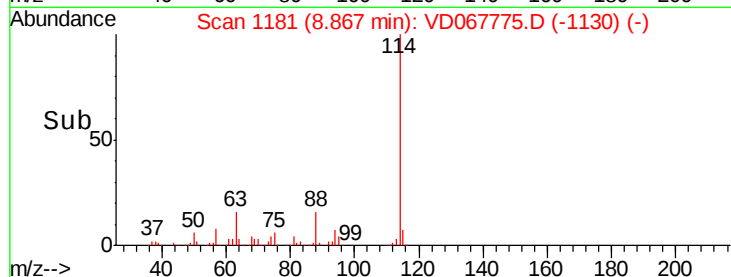
88 15.8 0.0 34.4



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: 49.995 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

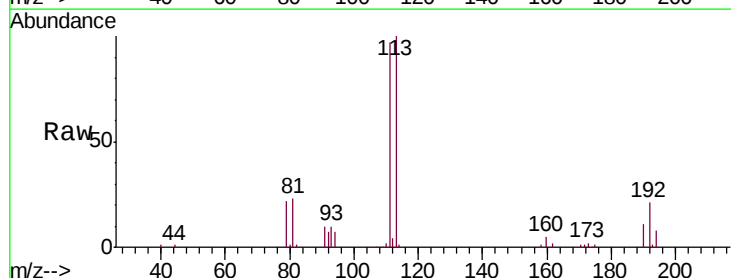
Tgt Ion:113 Resp: 116206

Ion Ratio Lower Upper

113 100

111 100.6 81.4 122.0

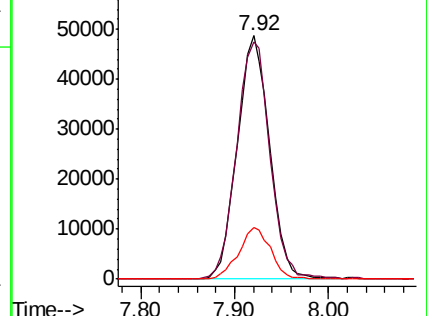
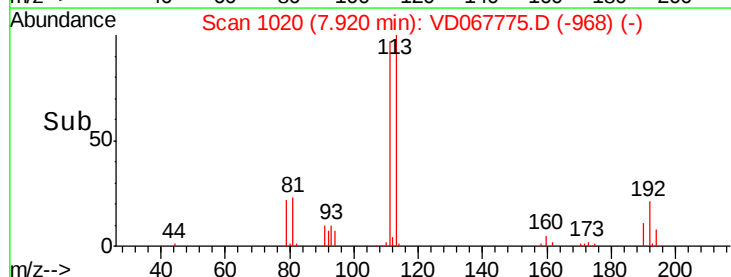
192 20.8 17.0 25.4

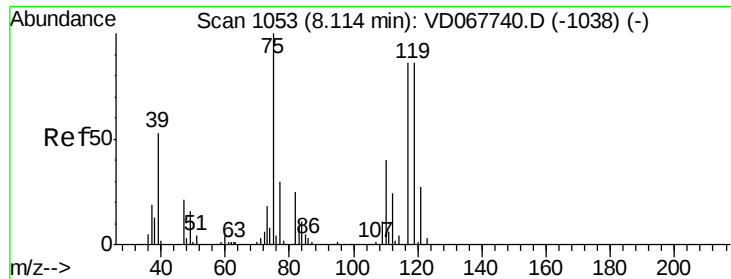


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.064 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

Instrument :

MSVOA_D

ClientSampleId :

BU-03-112320

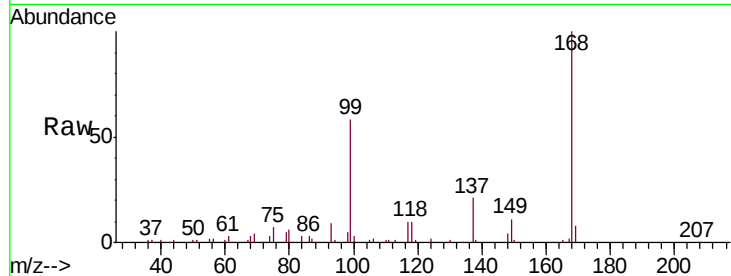
Tgt Ion: 75 Resp: 15870

Ion Ratio Lower Upper

75 100

110 12.6 20.1 60.2#

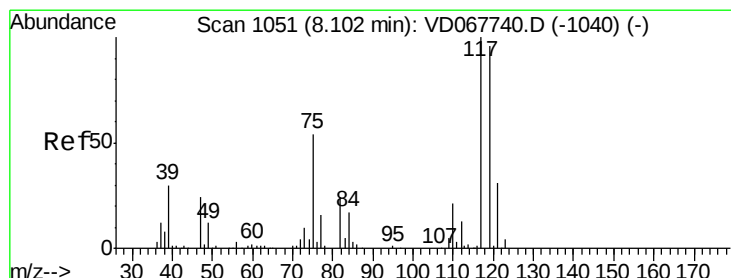
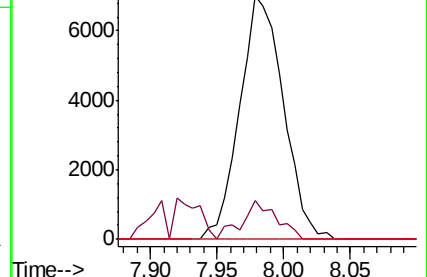
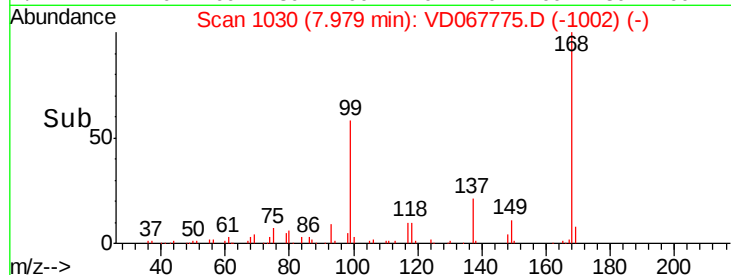
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VD067775.D (-1002) (-)

Ion 109.90 (109.60 to 110.60): VD067775.D (-1002) (-)

Ion 76.90 (76.60 to 77.60): VD067775.D (-1002) (-)



#38

Carbon Tetrachloride

Concen: 5.194 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

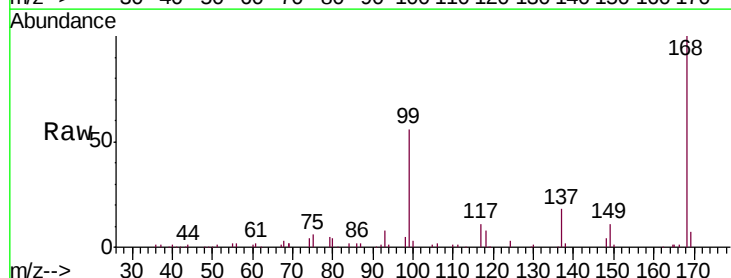
Tgt Ion: 117 Resp: 23597

Ion Ratio Lower Upper

117 100

119 6.0 76.6 115.0#

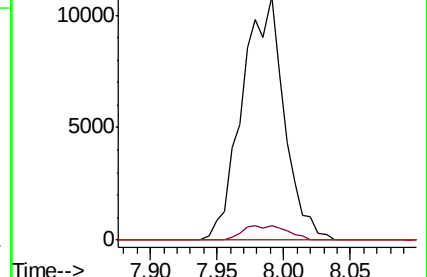
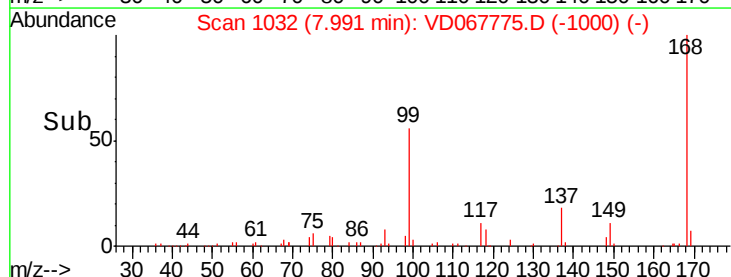
121 0.0 24.5 36.7#

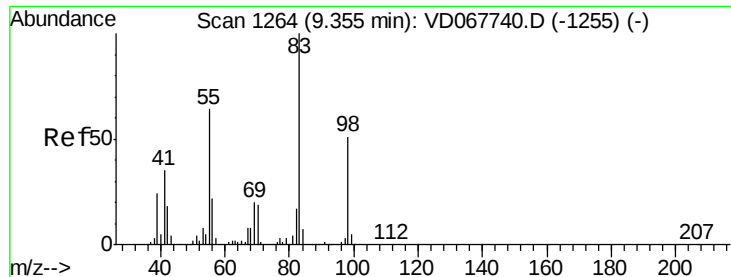


Abundance Ion 116.80 (116.50 to 117.50): VD067775.D (-1000) (-)

Ion 118.80 (118.50 to 119.50): VD067775.D (-1000) (-)

Ion 120.80 (120.50 to 121.50): VD067775.D (-1000) (-)

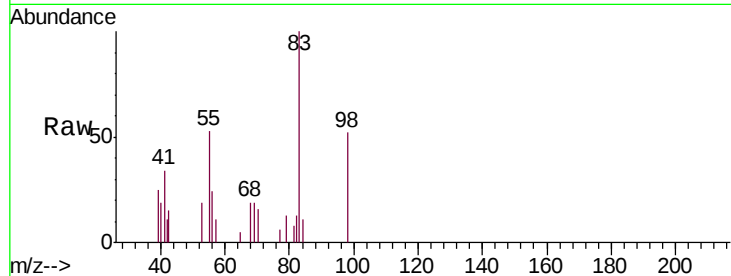




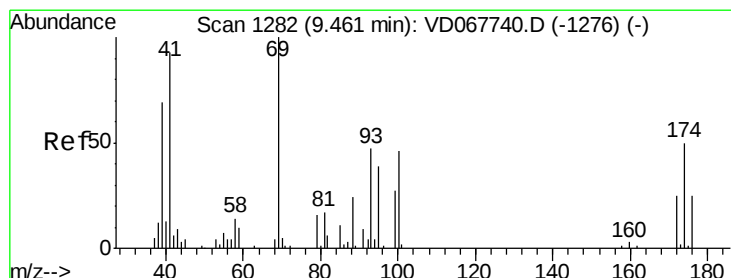
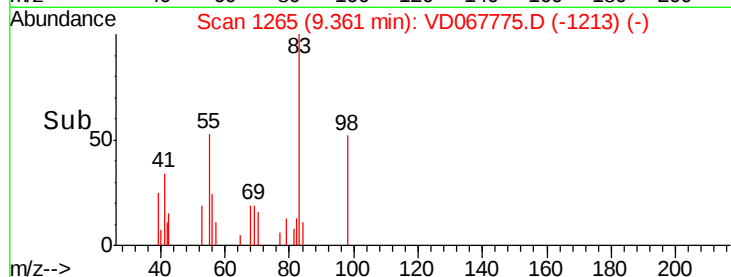
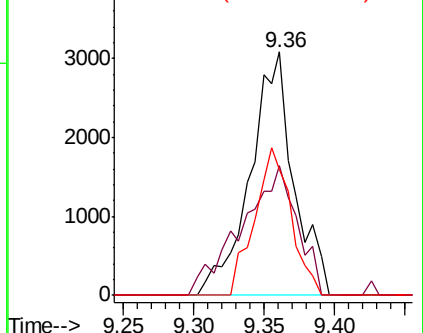
#39
Methylcyclohexane
Concen: 1.799 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

Instrument :
MSVOA_D
ClientSampleId :
BU-03-112320

Tgt Ion: 83 Resp: 6671
Ion Ratio Lower Upper
83 100
55 53.4 51.0 76.4
98 52.0 40.4 60.6

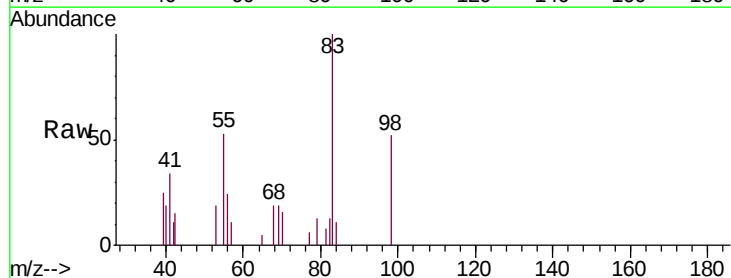


Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC

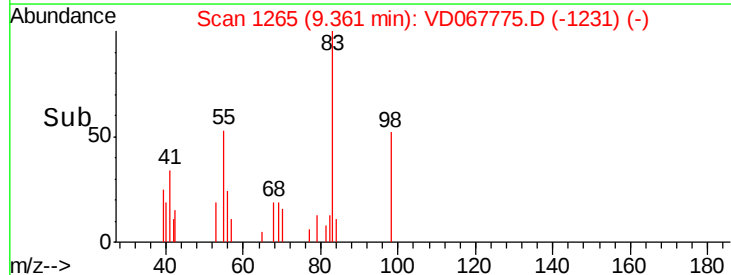
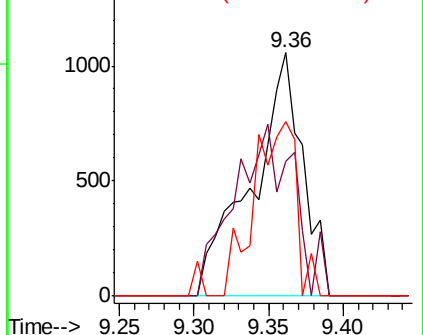


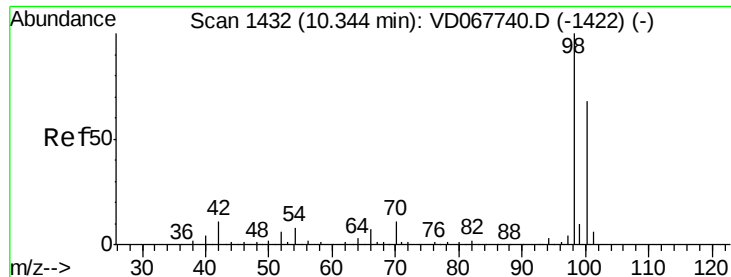
#48
Methyl methacrylate
Concen: 2.976 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. -0.10 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

Tgt Ion: 41 Resp: 2504
Ion Ratio Lower Upper
41 100
69 83.0 87.8 131.6#
39 60.5 60.5 90.7



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: 52.586 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

Instrument :

MSVOA_D

ClientSampled :

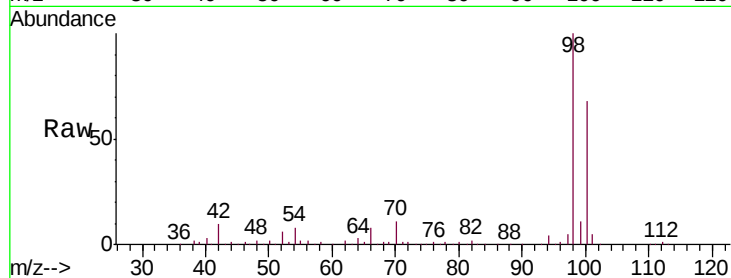
BU-03-112320

Tgt Ion: 98 Resp: 446874

Ion Ratio Lower Upper

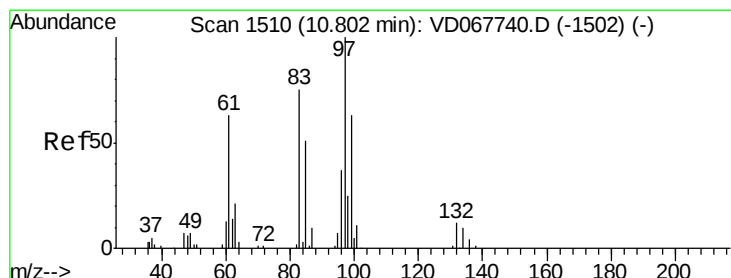
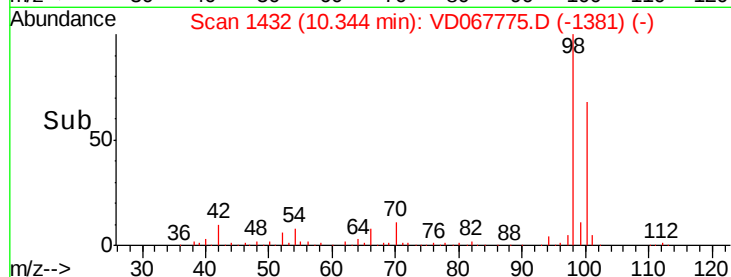
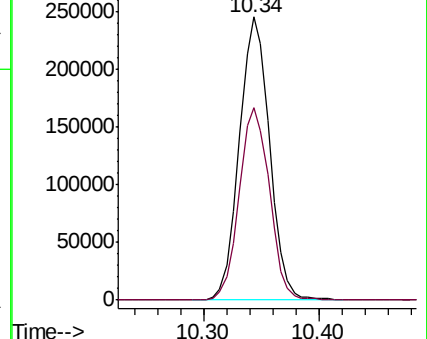
98 100

100 68.0 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#55

1,1,2-Trichloroethane

Concen: 1.333 ug/l

RT: 10.78 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

Tgt Ion: 97 Resp: 2151

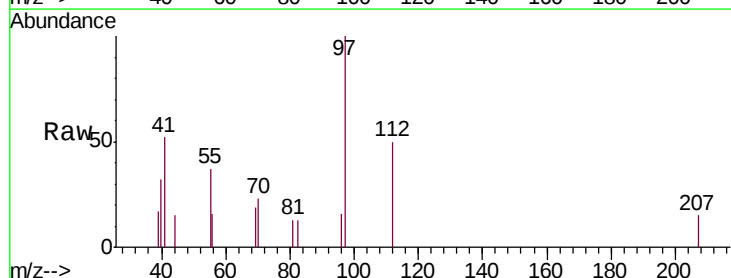
Ion Ratio Lower Upper

97 100

83 0.0 60.2 90.4#

85 0.0 40.5 60.7#

99 0.0 50.6 76.0#

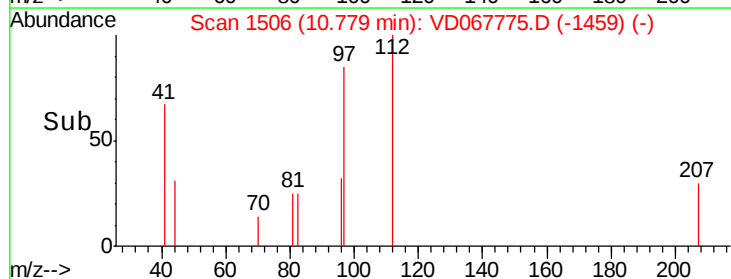
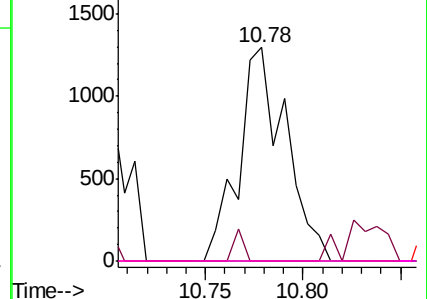


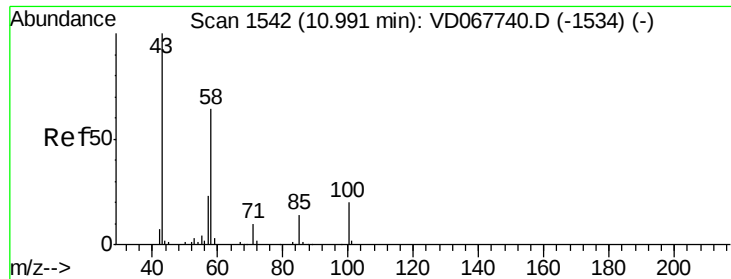
Abundance Ion 96.90 (96.60 to 97.60): VDC

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

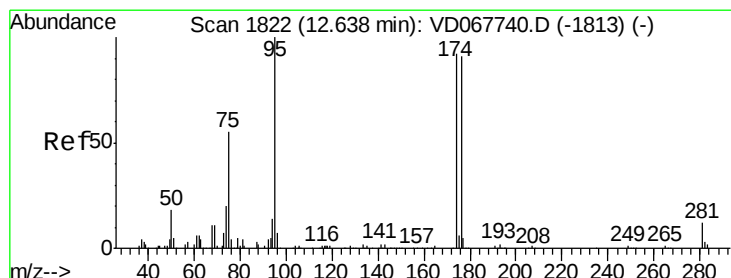
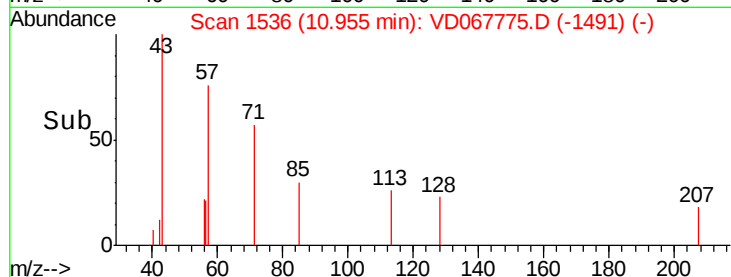
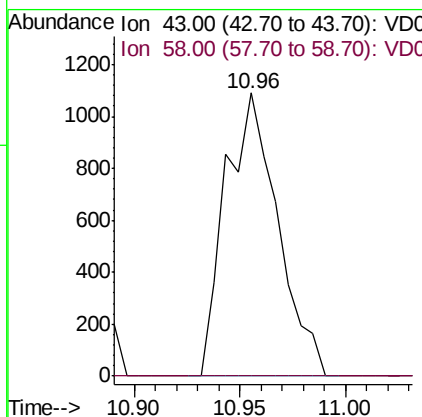
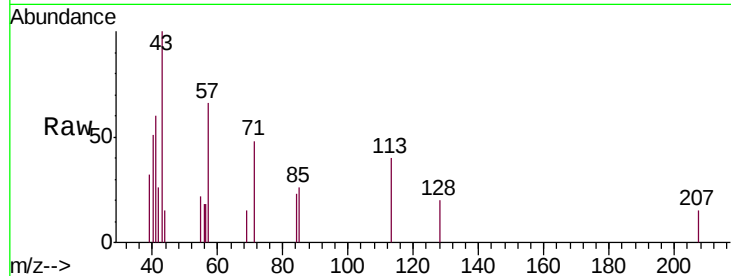




#59
2-Hexanone
Concen: 3.355 ug/l
RT: 10.96 min Scan# 1536
Delta R.T. -0.04 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

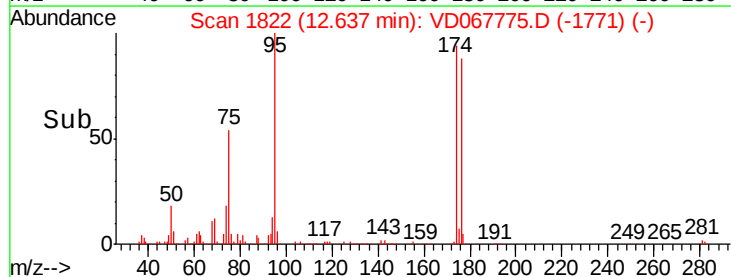
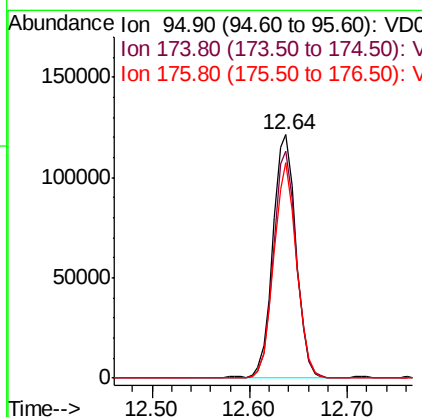
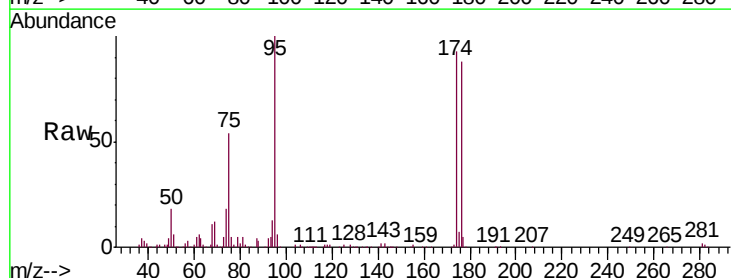
Instrument :
MSVOA_D
ClientSampleId :
BU-03-112320

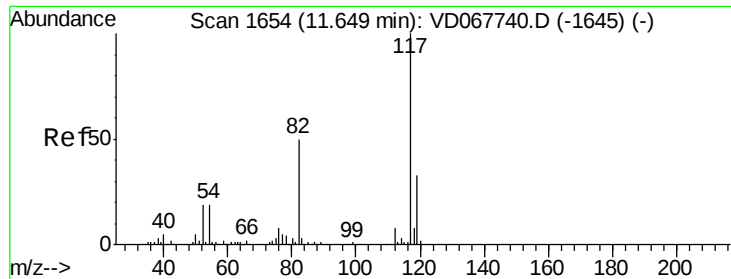
Tgt Ion: 43 Resp: 1876
Ion Ratio Lower Upper
43 100
58 0.0 30.5 91.5#



#62
4-Bromofluorobenzene
Concen: 69.284 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

Tgt Ion: 95 Resp: 201246
Ion Ratio Lower Upper
95 100
174 91.3 0.0 182.4
176 86.3 0.0 178.2

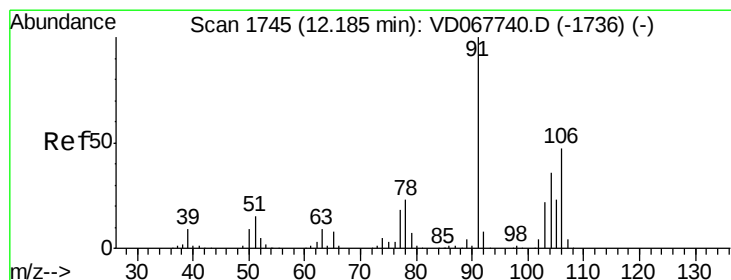
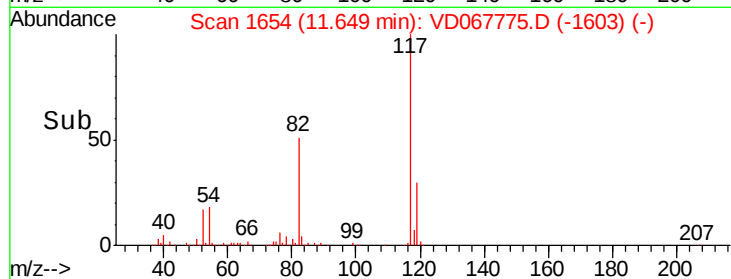
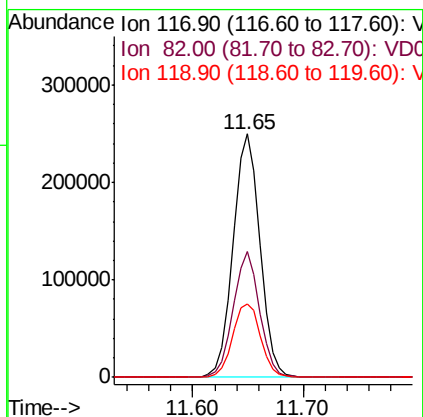
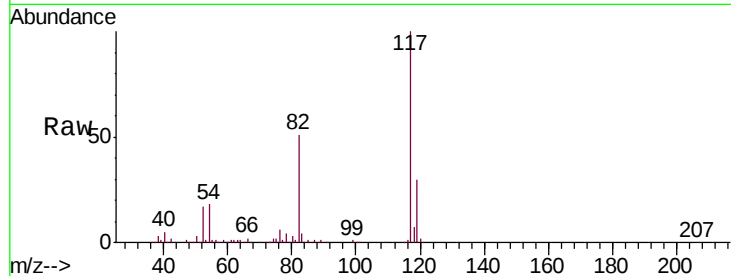




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

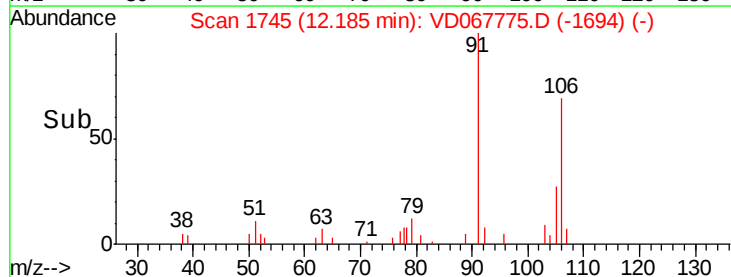
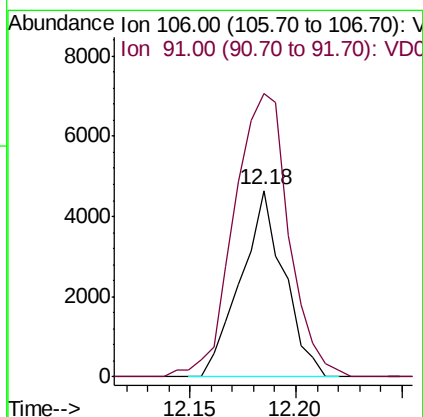
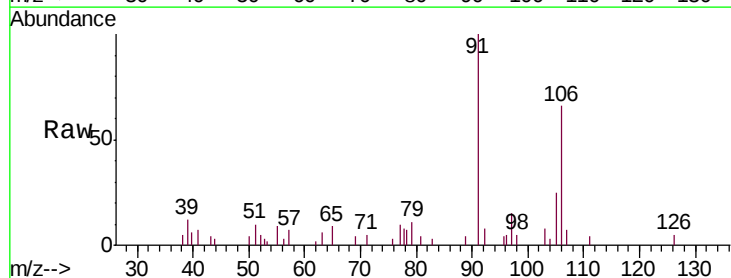
Instrument :
MSVOA_D
ClientSampleId :
BU-03-112320

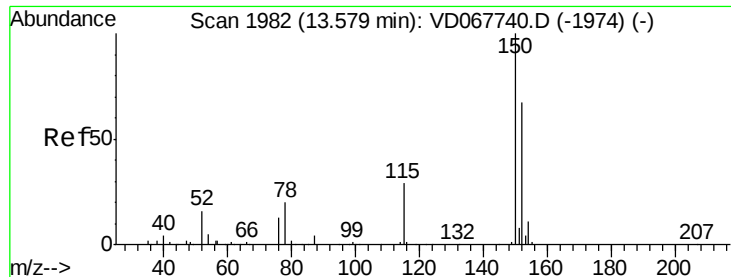
Tgt Ion:117 Resp: 427244
Ion Ratio Lower Upper
117 100
82 51.5 40.2 60.4
119 30.3 26.5 39.7



#69
o-Xylene
Concen: 1.289 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

Tgt Ion:106 Resp: 6623
Ion Ratio Lower Upper
106 100
91 192.5 106.2 318.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

Instrument :

MSVOA_D

ClientSampleId :

BU-03-112320

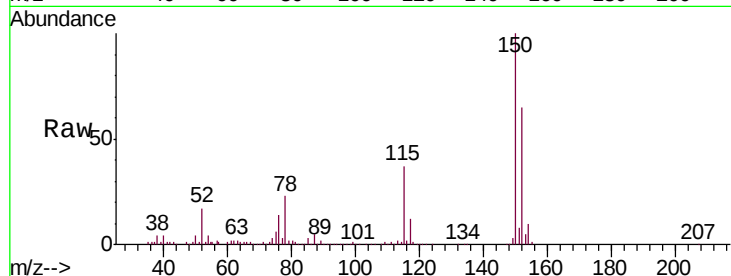
Tgt Ion:152 Resp: 231857

Ion Ratio Lower Upper

152 100

115 60.3 29.4 88.3

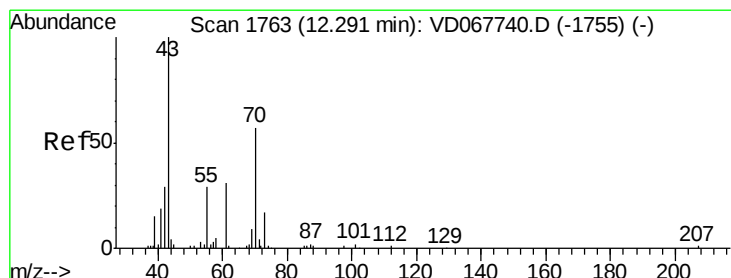
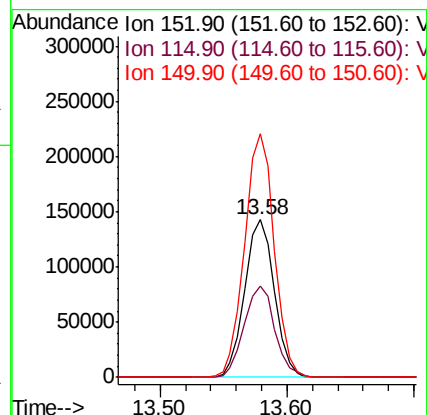
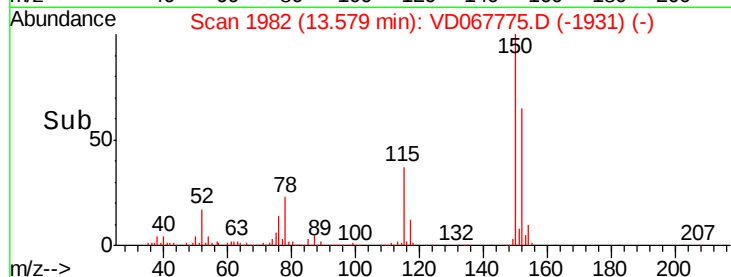
150 153.8 0.0 340.6



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: 1.282 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

Tgt Ion: 43 Resp: 2580

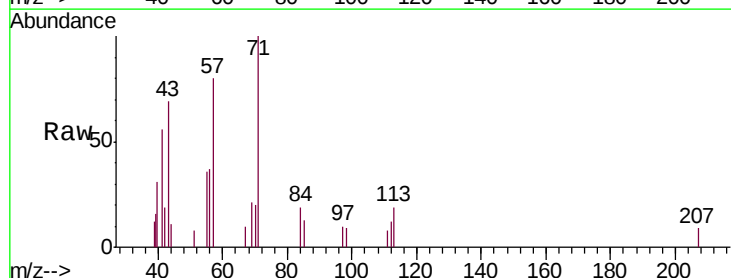
Ion Ratio Lower Upper

43 100

70 19.4 44.6 66.8#

55 0.0 24.2 36.2#

61 0.0 22.0 33.0#

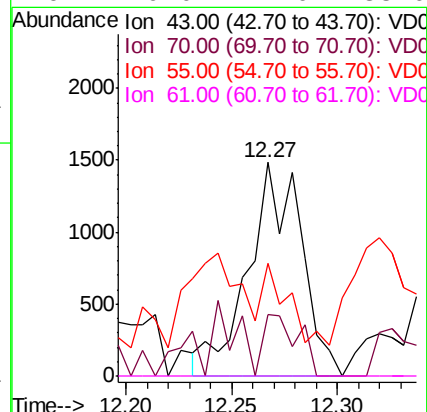
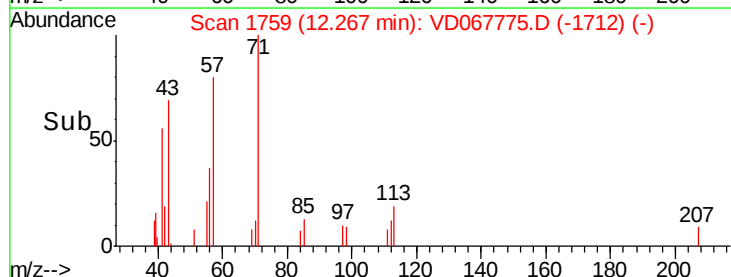


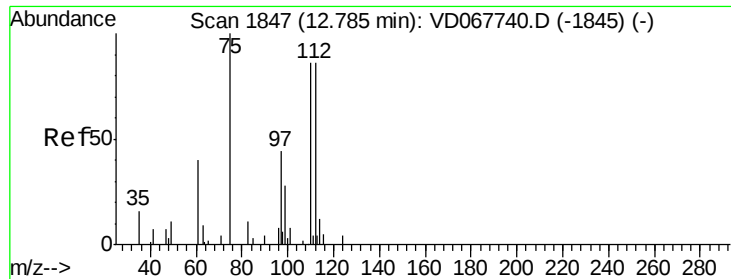
Abundance Ion 43.00 (42.70 to 43.70): VDC

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: 65.815 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

Instrument :

MSVOA_D

ClientSampleId :

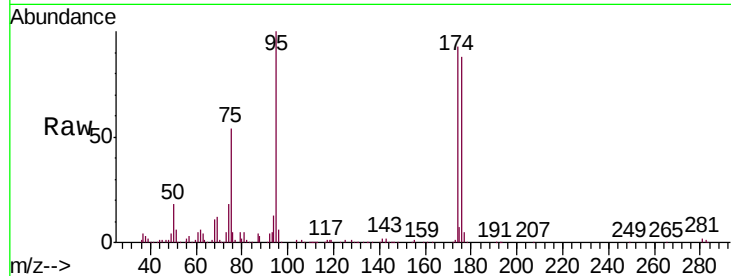
BU-03-112320

Tgt Ion: 75 Resp: 106352

Ion Ratio Lower Upper

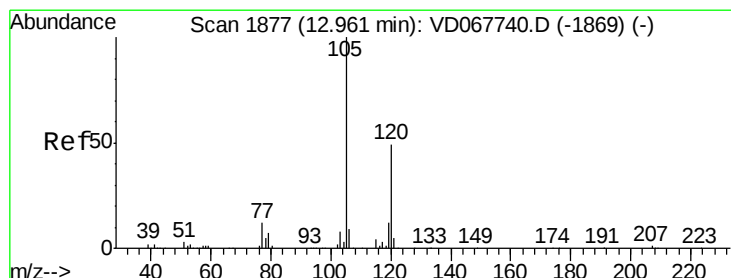
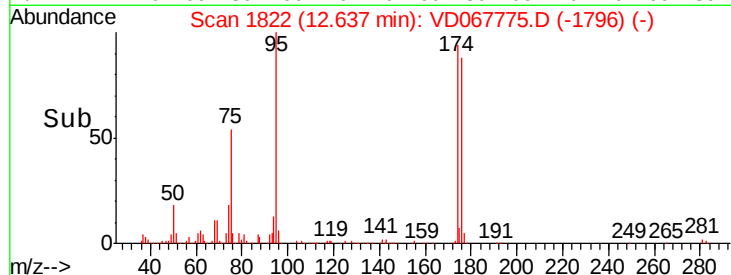
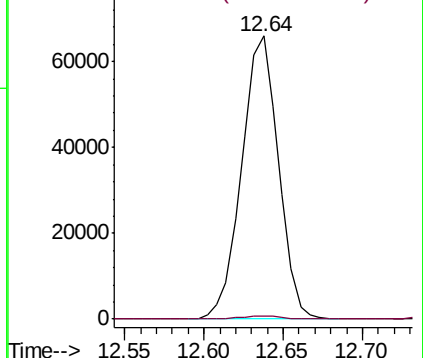
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#80

1,3,5-Trimethylbenzene

Concen: 1.589 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. -0.00 min

Lab File: VD067775.D

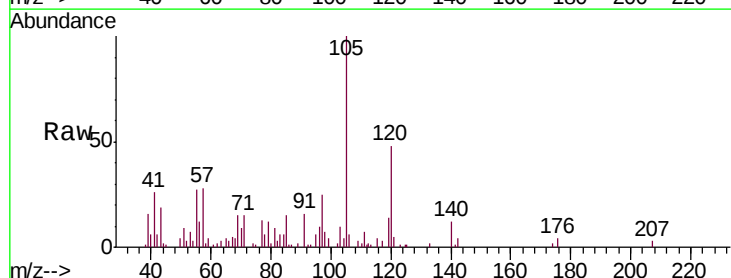
Acq: 24 Nov 2020 18:32

Tgt Ion: 105 Resp: 21084

Ion Ratio Lower Upper

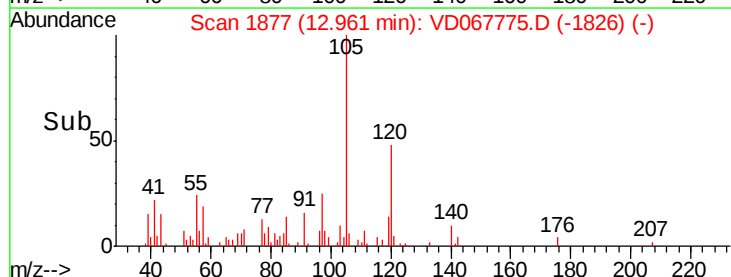
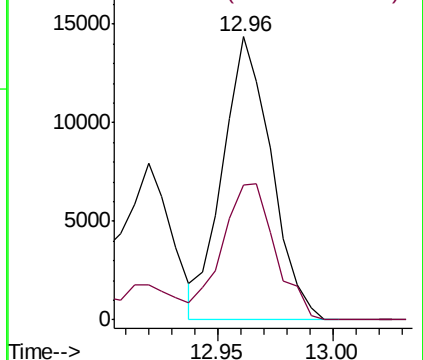
105 100

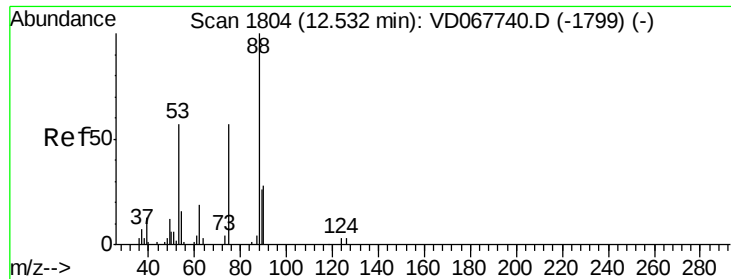
120 52.5 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 153.935 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067775.D

Acq: 24 Nov 2020 18:32

Instrument :

MSVOA_D

ClientSampleId :

BU-03-112320

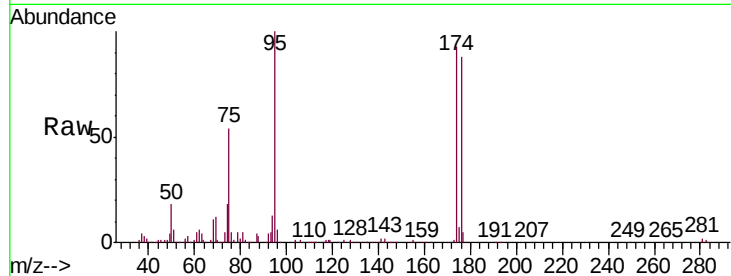
Tgt Ion: 75 Resp: 106352

Ion Ratio Lower Upper

75 100

53 0.4 76.0 114.0#

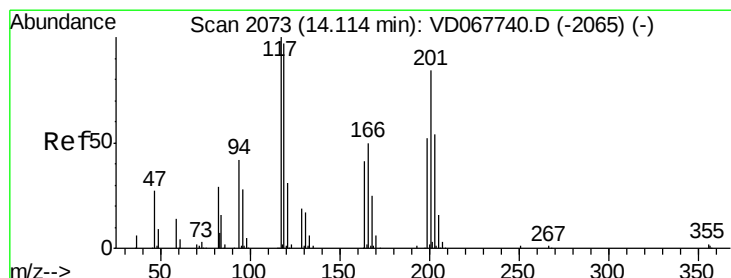
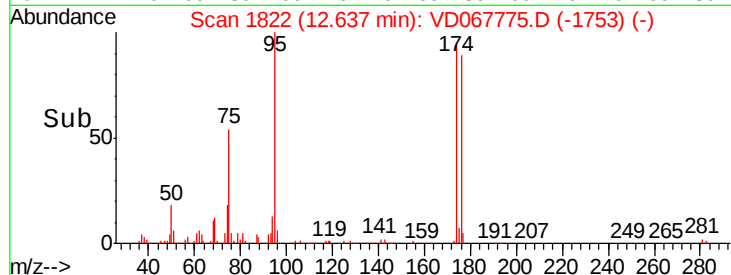
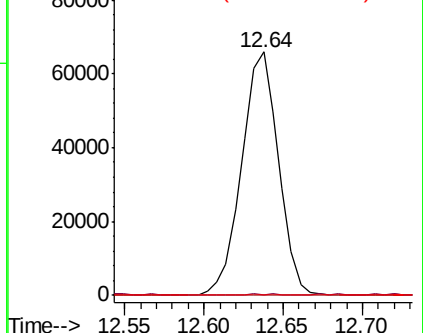
89 0.1 40.2 60.4#



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



#90

Hexachloroethane

Concen: 1.342 ug/l

RT: 14.11 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VD067775.D

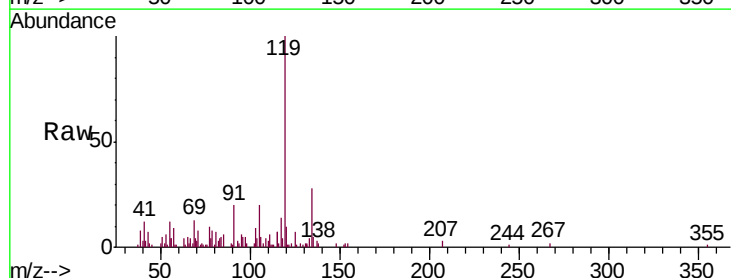
Acq: 24 Nov 2020 18:32

Tgt Ion: 117 Resp: 3707

Ion Ratio Lower Upper

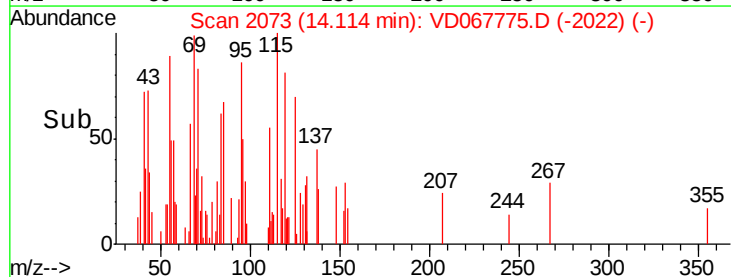
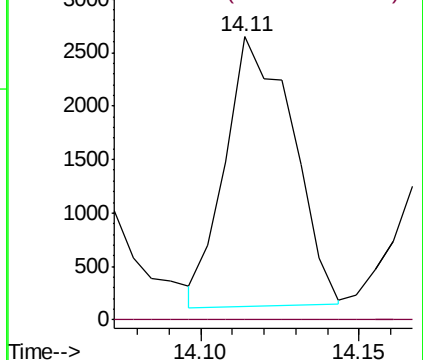
117 100

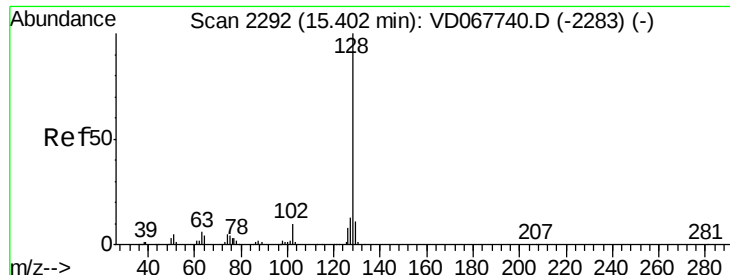
201 0.0 42.2 126.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

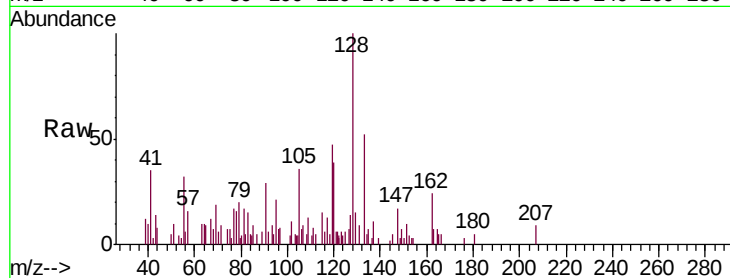




#95
Naphthalene
Concen: 1.584 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VD067775.D
Acq: 24 Nov 2020 18:32

Instrument :
MSVOA_D
ClientSampleId :
BU-03-112320

Tgt Ion	Ratio	Lower	Upper
128	100		
127	28.9	10.7	16.1#
129	18.9	8.6	12.8#



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

