

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102020\
 Data File : VD067324.D
 Acq On : 20 Oct 2020 15:18
 Operator : VA/SY
 Sample : L4436-02
 Misc : 12.06G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 33A

Quant Time: Oct 21 01:50:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	276457	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	483936	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	463476	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	207139	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	164995	59.57	ug/l	0.00
Spiked Amount			Recovery	=	119.14%	
35) Dibromofluoromethane	7.92	113	154132	47.86	ug/l	0.00
Spiked Amount			Recovery	=	95.72%	
50) Toluene-d8	10.34	98	575624	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
62) 4-Bromofluorobenzene	12.64	95	195840	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	

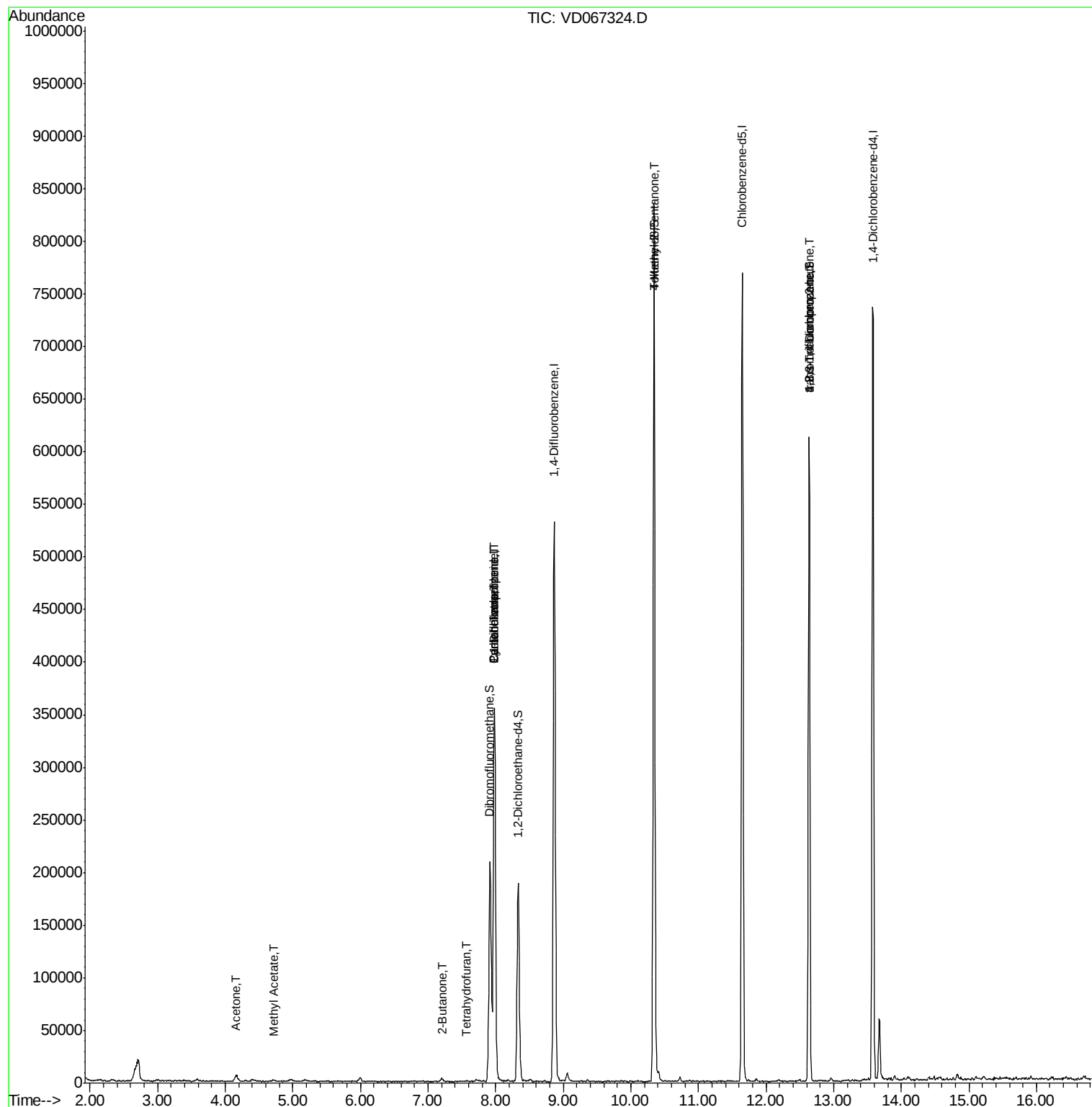
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.73	94	1142	Below Cal	#	76
11) Tert butyl alcohol	5.24	59	552	Below Cal	#	81
16) Acetone	4.16	43	10699	27.582	ug/l #	87
18) Methyl Acetate	4.72	43	1610	1.820	ug/l	93
20) Methylene Chloride	4.97	84	1370	Below Cal	#	76
25) 2-Butanone	7.22	43	1082	2.447	ug/l #	45
29) Tetrahydrofuran	7.57	42	563	2.291	ug/l #	26
31) Cyclohexane	7.98	56	5061	1.586	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	20296	4.948	ug/l #	51
38) Carbon Tetrachloride	7.98	117	28255	5.390	ug/l #	21
51) 4-Methyl-2-Pentanone	10.34	43	2217	1.856	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	97955	68.229	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	97955	154.724	ug/l #	10

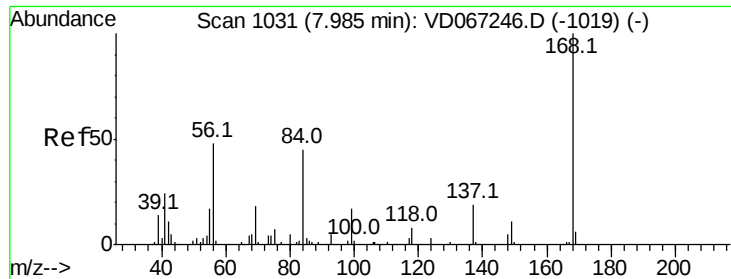
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102020\
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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: VD067324.D

Acq: 20 Oct 2020 15:18

Instrument :

MSVOA_D

ClientSampled :

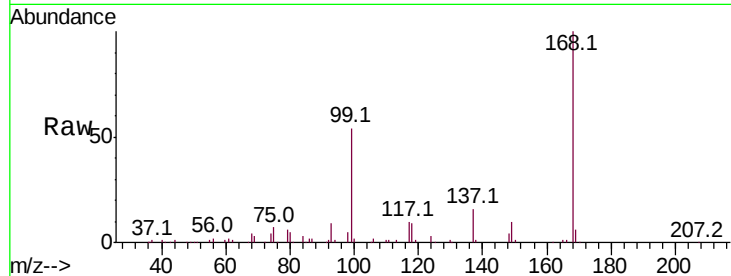
33A

Tot Ion:168 Resp: 276457

Ion Ratio Lower Upper

168 100

99 54.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

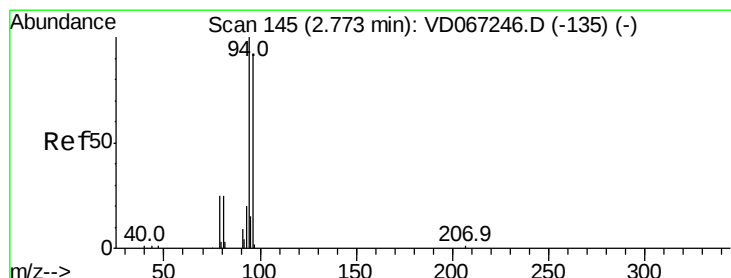
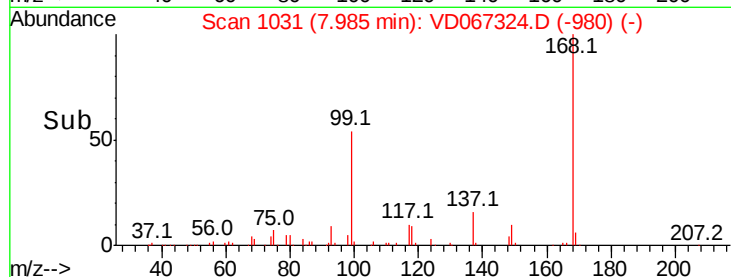
7.98

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.73 min Scan# 138

Delta R.T. -0.04 min

Lab File: VD067324.D

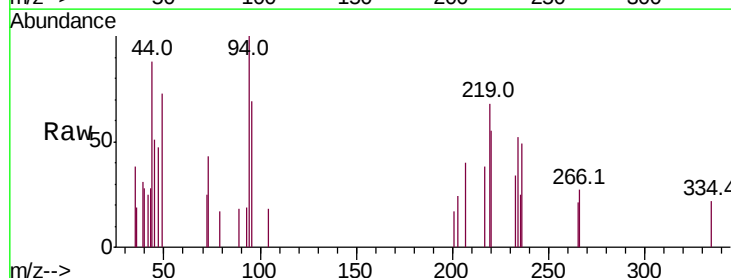
Acq: 20 Oct 2020 15:18

Tgt Ion: 94 Resp: 1142

Ion Ratio Lower Upper

94 100

96 68.8 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.73

1200

1000

800

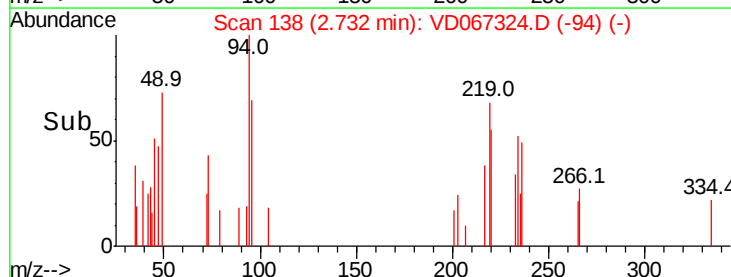
600

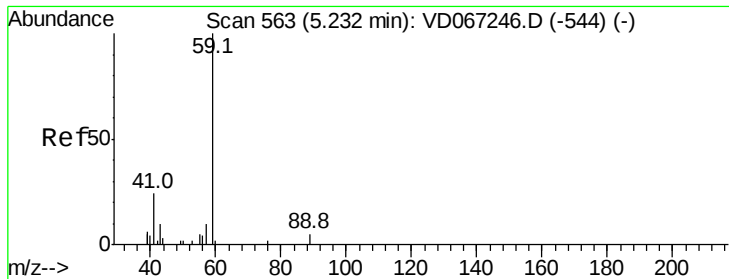
400

200

0

Time-->

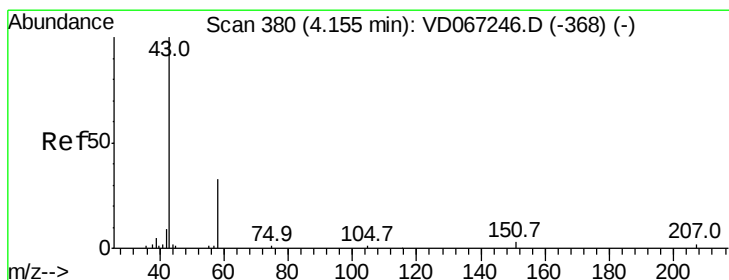
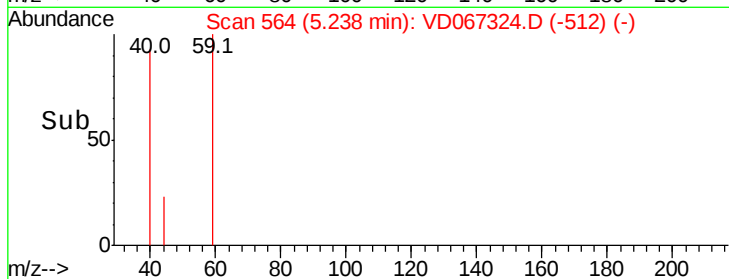
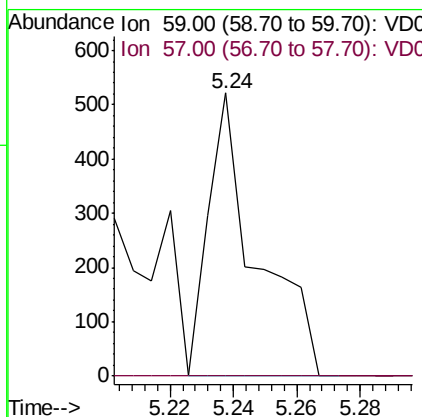
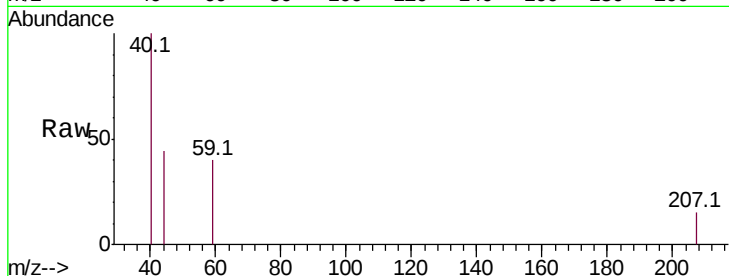




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.24 min Scan# 564
Delta R.T. 0.01 min
Lab File: VD067324.D
Acq: 20 Oct 2020 15:18

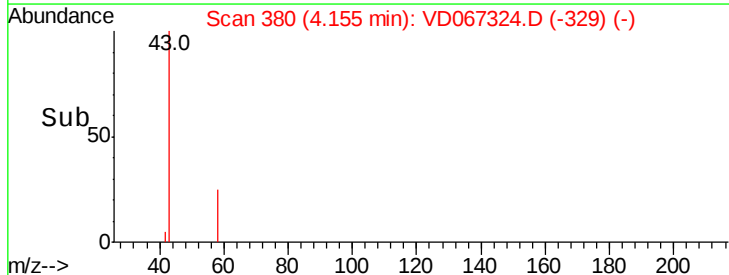
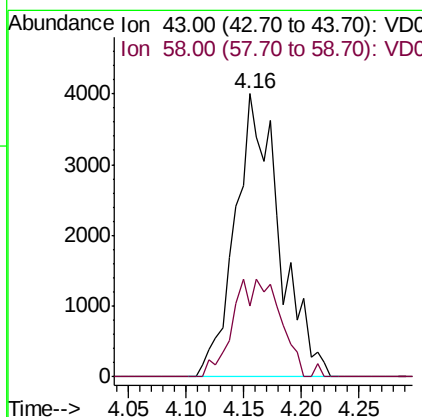
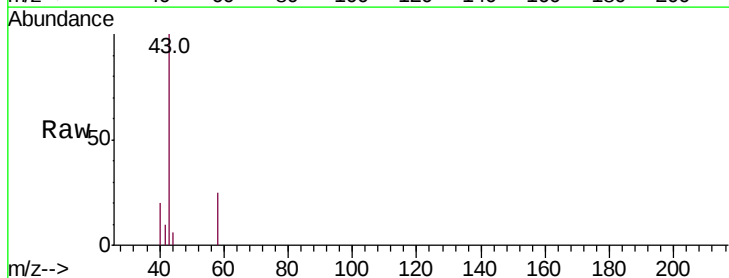
Instrument :
MSVOA_D
ClientSampled :
33A

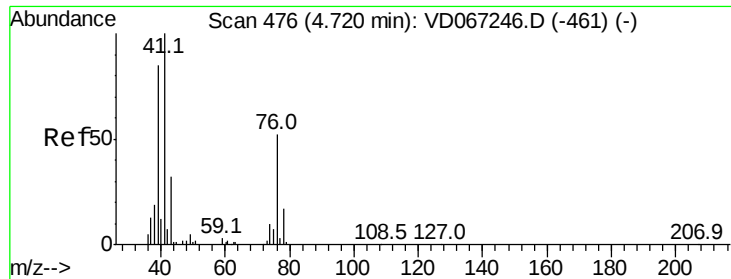
Tot Ion: 59 Resp: 552
Ion Ratio Lower Upper
59 100
57 0.0 5.1 7.7#



#16
Acetone
Concen: 27.582 ug/l
RT: 4.16 min Scan# 380
Delta R.T. -0.00 min
Lab File: VD067324.D
Acq: 20 Oct 2020 15:18

Tgt Ion: 43 Resp: 10699
Ion Ratio Lower Upper
43 100
58 25.3 26.1 39.1#

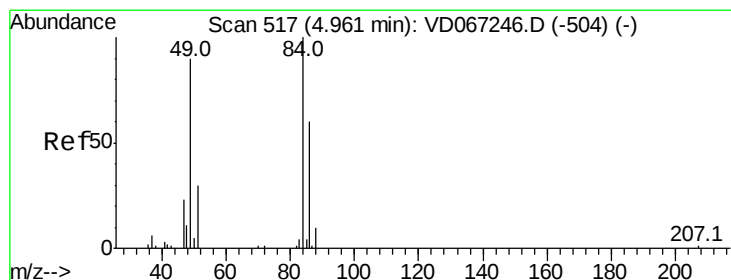
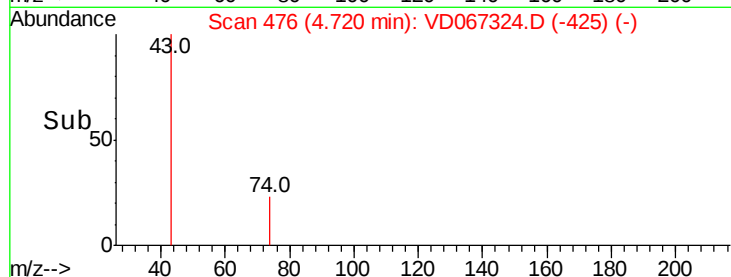
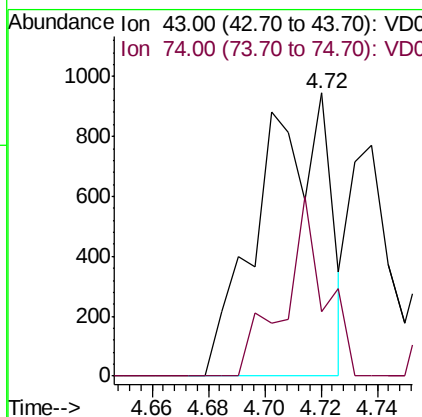
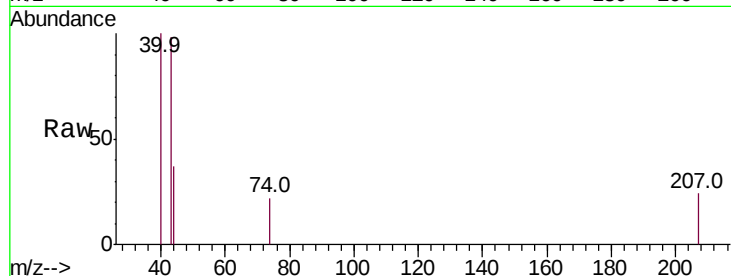




#18
Methyl Acetate
Concen: 1.820 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.00 min
Lab File: VD067324.D
Acq: 20 Oct 2020 15:18

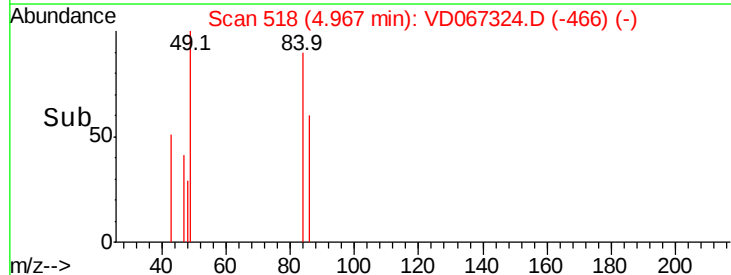
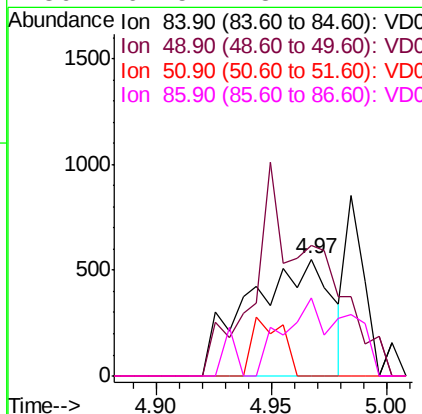
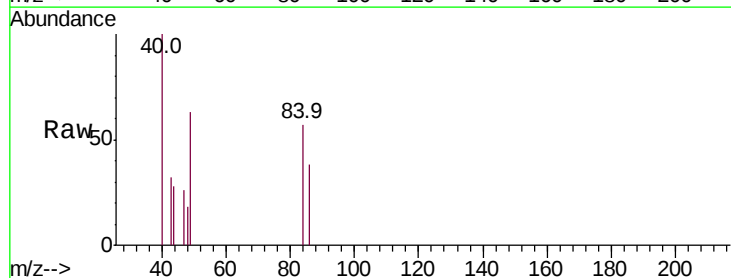
Instrument :
MSVOA_D
ClientSampled :
33A

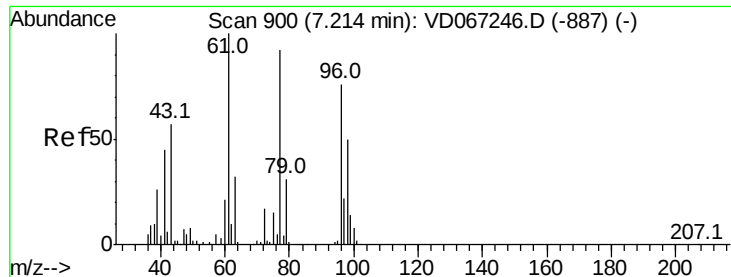
Tot Ion: 43 Resp: 1610
Ion Ratio Lower Upper
43 100
74 37.0 26.6 39.8



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD067324.D
Acq: 20 Oct 2020 15:18

Tgt Ion: 84 Resp: 1370
Ion Ratio Lower Upper
84 100
49 111.6 72.2 108.2#
51 0.0 23.8 35.8#
86 67.5 48.2 72.4

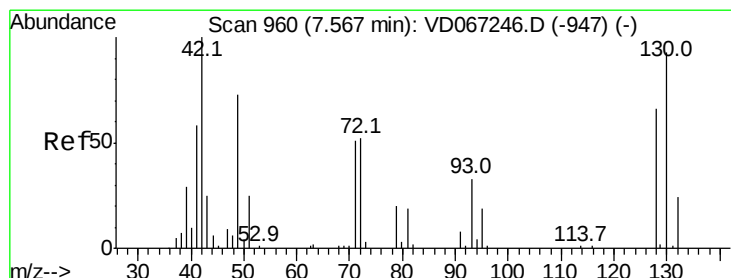
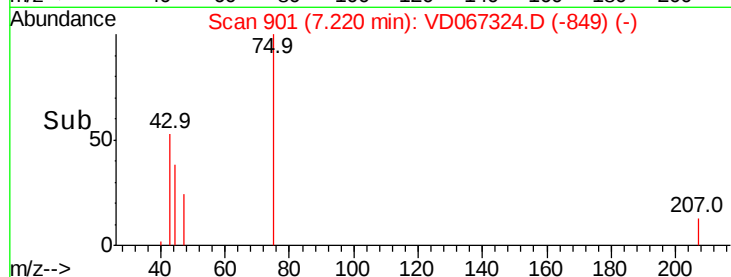
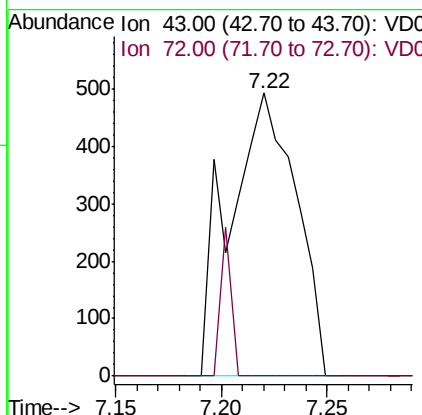
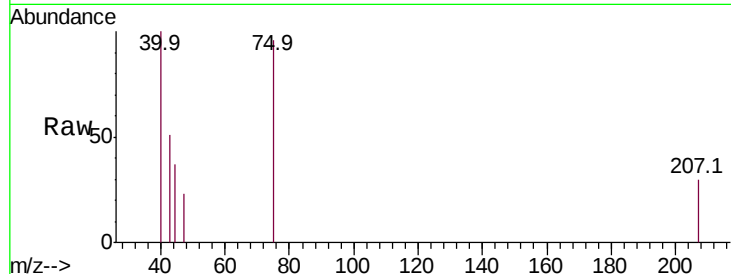




#25
2-Butanone
Concen: 2.447 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.01 min
Lab File: VD067324.D
Acq: 20 Oct 2020 15:18

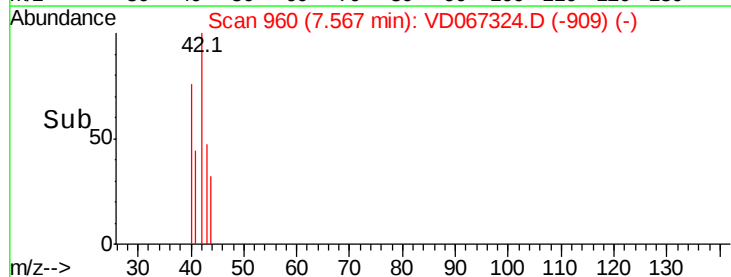
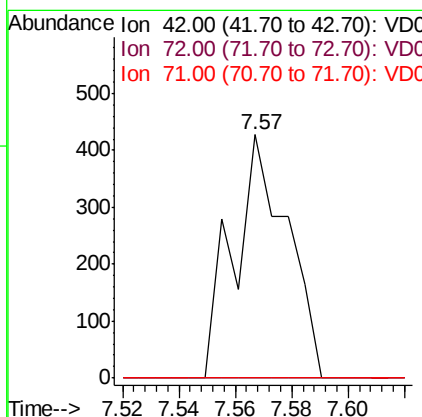
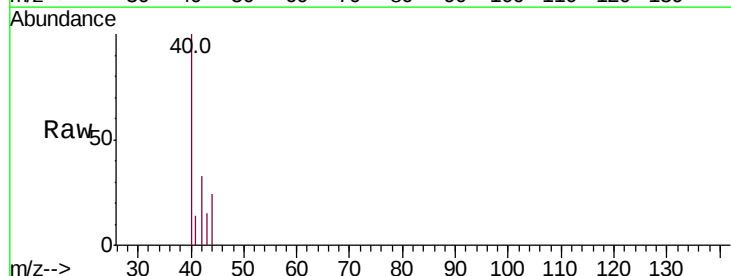
Instrument :
MSVOA_D
ClientSampled :
33A

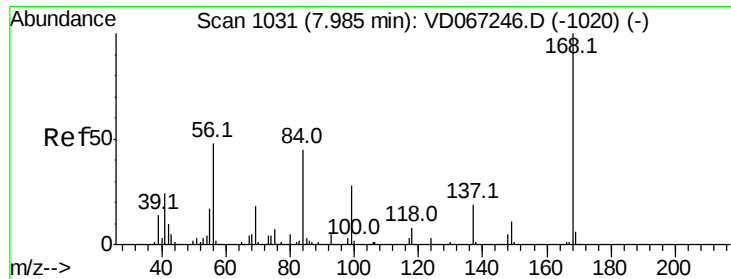
Tot Ion: 43 Resp: 1082
Ion Ratio Lower Upper
43 100
72 0.0 23.7 35.5#



#29
Tetrahydrofuran
Concen: 2.291 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.00 min
Lab File: VD067324.D
Acq: 20 Oct 2020 15:18

Tgt Ion: 42 Resp: 563
Ion Ratio Lower Upper
42 100
72 0.0 43.2 64.8#
71 0.0 39.4 59.0#

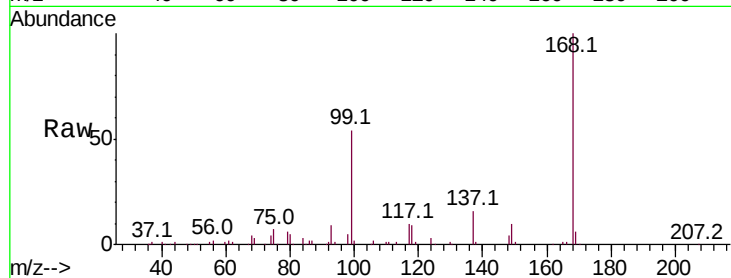




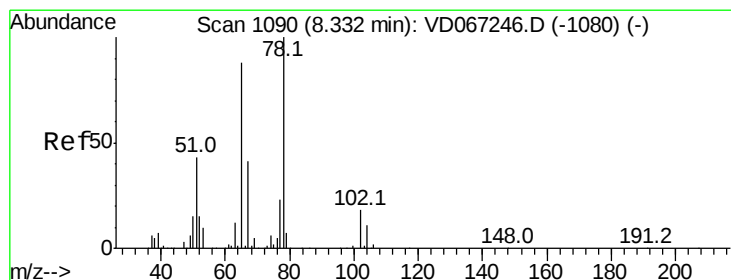
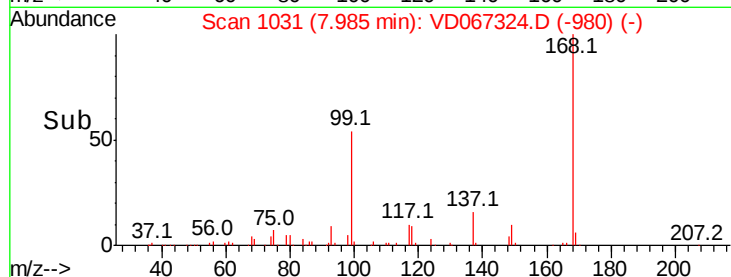
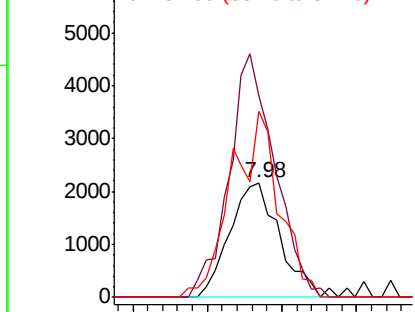
#31
Cyclohexane
Concen: 1.586 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD067324.D
Acq: 20 Oct 2020 15:18

Instrument :
MSVOA_D
ClientSampleId :
33A

Tot Ion: 56 Resp: 5061
Ion Ratio Lower Upper
56 100
69 176.1 29.8 44.6#
84 162.1 76.6 114.8#

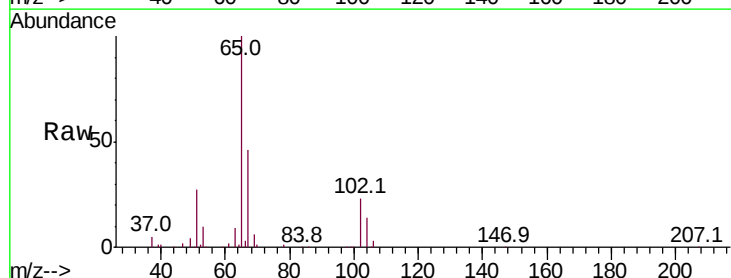


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

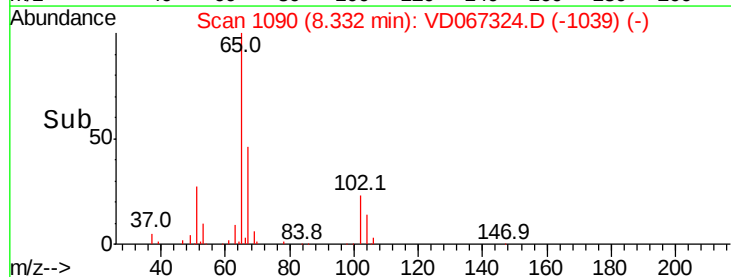
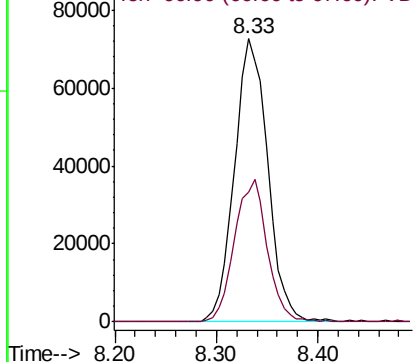


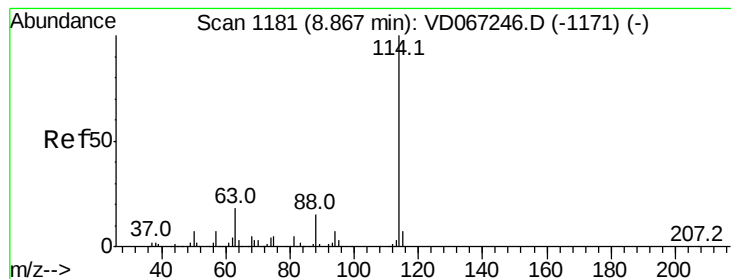
#33
1,2-Dichloroethane-d4
Concen: 59.572 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VD067324.D
Acq: 20 Oct 2020 15:18

Tgt Ion: 65 Resp: 164995
Ion Ratio Lower Upper
65 100
67 49.6 0.0 103.8



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: VD067324.D

Acq: 20 Oct 2020 15:18

Instrument :

MSVOA_D

ClientSampleId :

33A

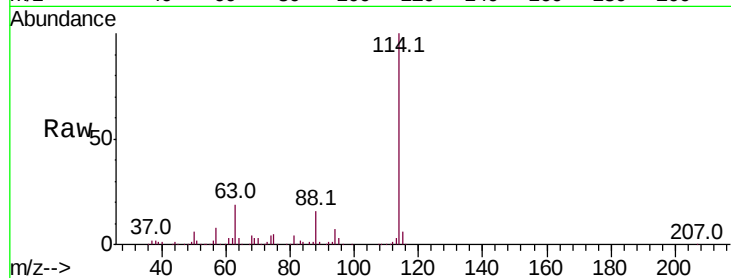
Tot Ion:114 Resp: 483936

Ion Ratio Lower Upper

114 100

63 18.7 0.0 35.0

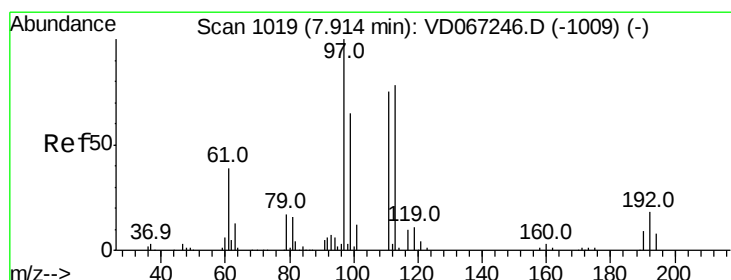
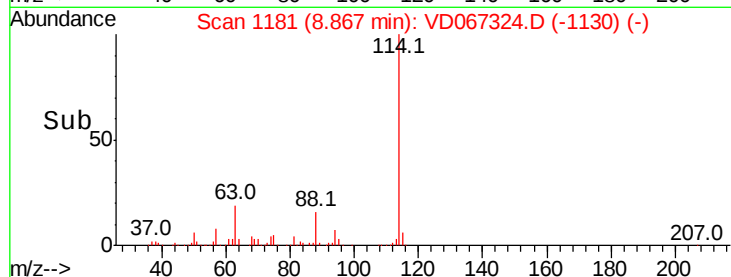
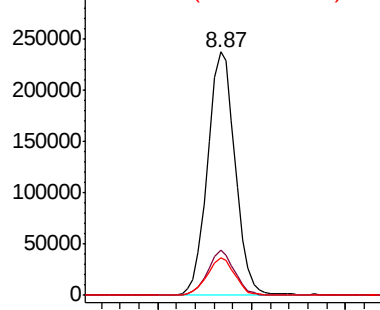
88 15.6 0.0 30.6



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: 47.858 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067324.D

Acq: 20 Oct 2020 15:18

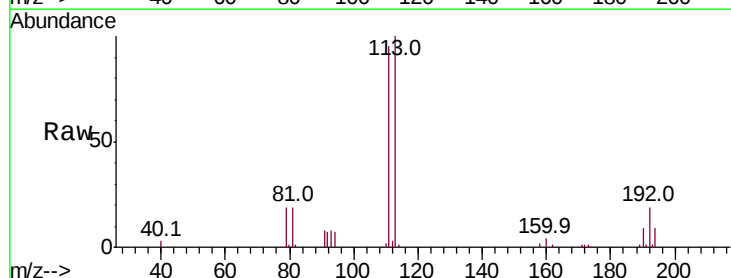
Tgt Ion:113 Resp: 154132

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

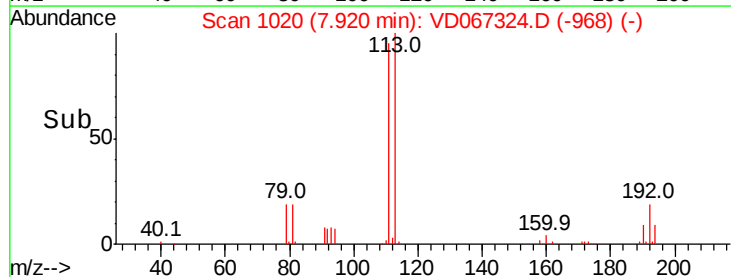
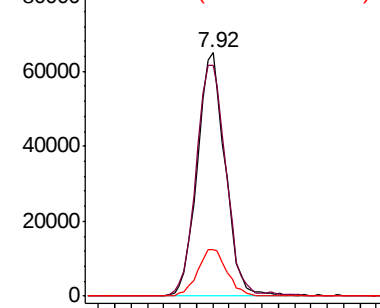
192 20.1 17.0 25.4

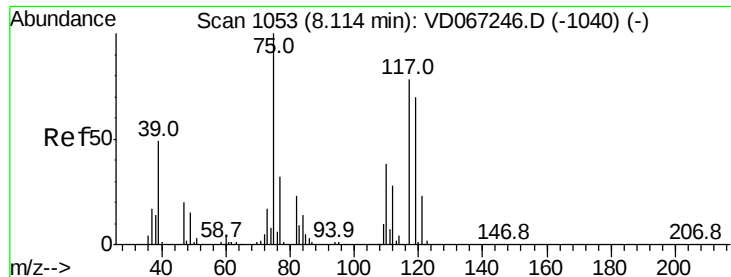


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.948 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067324.D

Acq: 20 Oct 2020 15:18

Instrument :

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ClientSampled :

33A

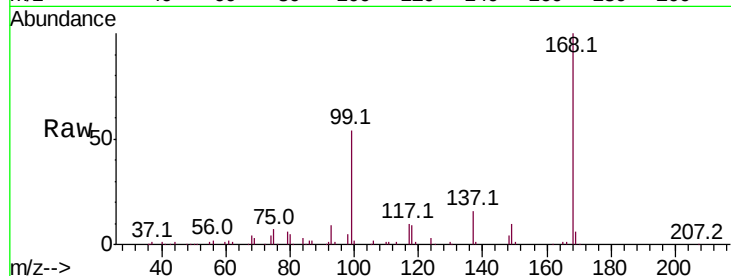
Tot Ion: 75 Resp: 20296

Ion Ratio Lower Upper

75 100

110 12.4 19.6 58.7#

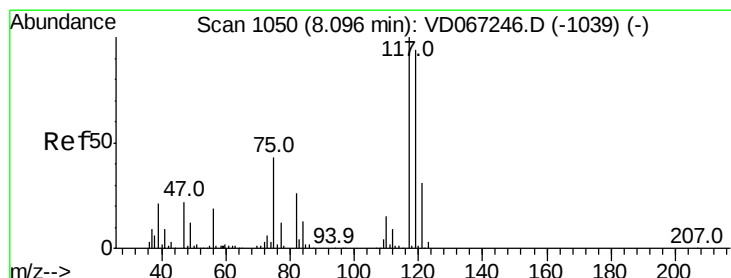
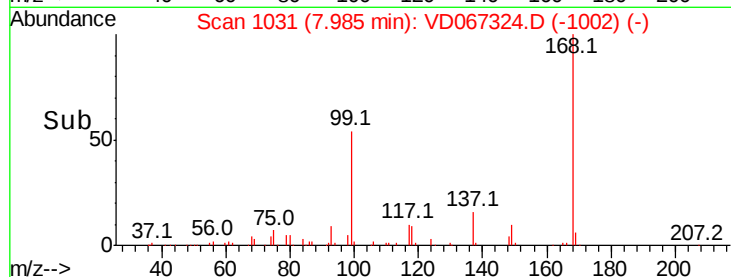
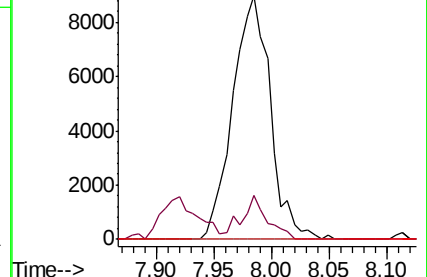
77 0.0 24.6 37.0#



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: 5.390 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067324.D

Acq: 20 Oct 2020 15:18

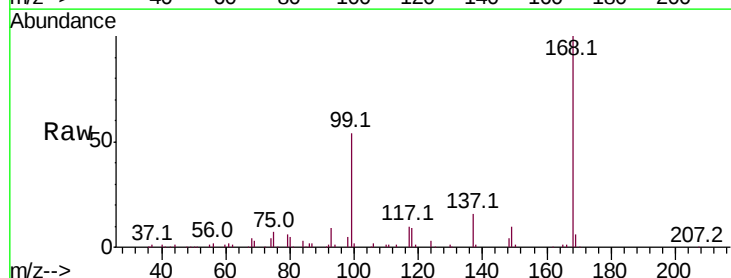
Tgt Ion: 117 Resp: 28255

Ion Ratio Lower Upper

117 100

119 10.4 75.0 112.4#

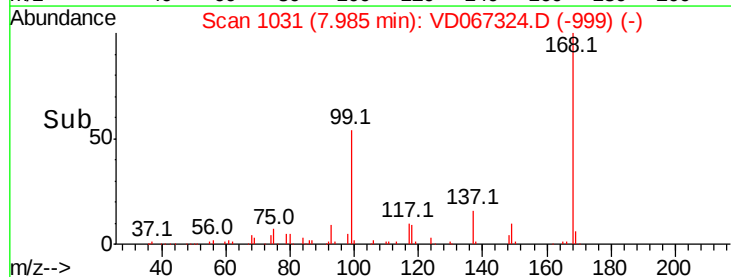
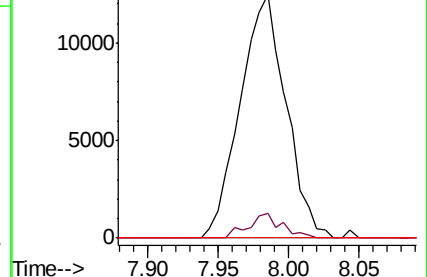
121 0.0 24.9 37.3#

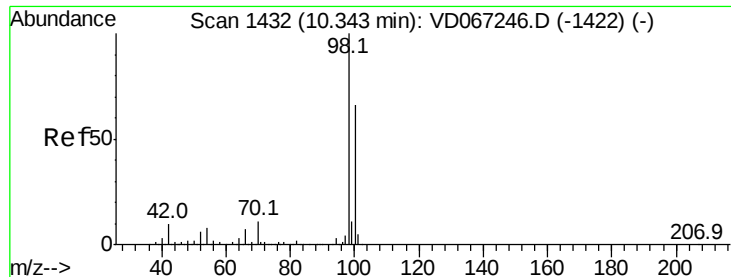


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.388 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD067324.D

Acq: 20 Oct 2020 15:18

Instrument :

MSVOA_D

ClientSampleId :

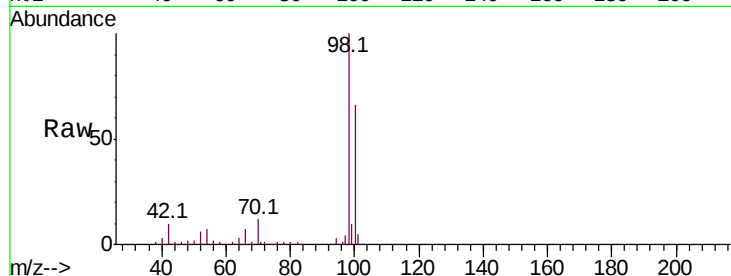
33A

Tot Ion: 98 Resp: 575624

Ion Ratio Lower Upper

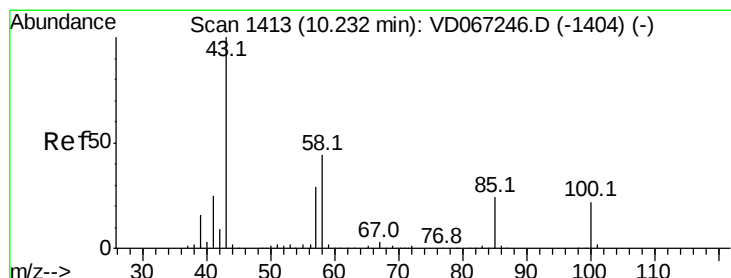
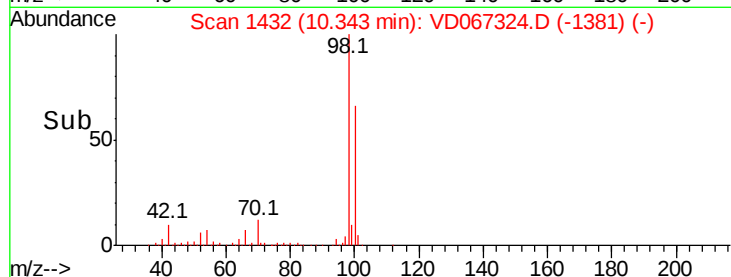
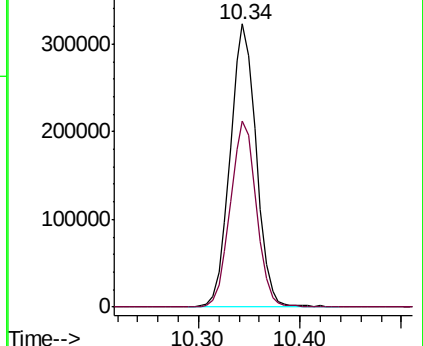
98 100

100 65.5 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.856 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.11 min

Lab File: VD067324.D

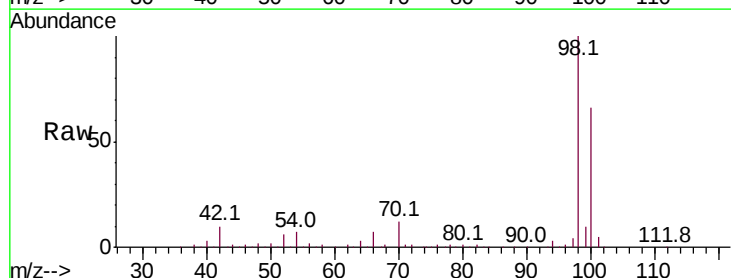
Acq: 20 Oct 2020 15:18

Tgt Ion: 43 Resp: 2217

Ion Ratio Lower Upper

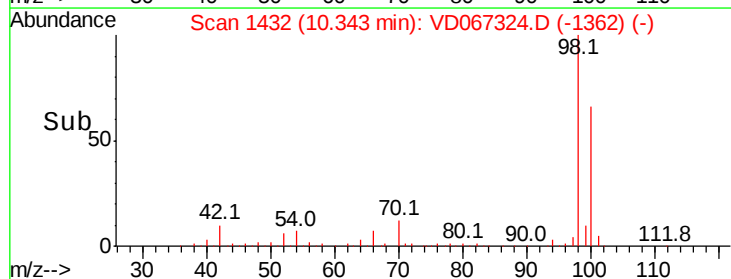
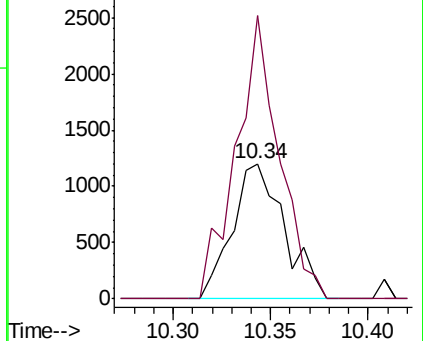
43 100

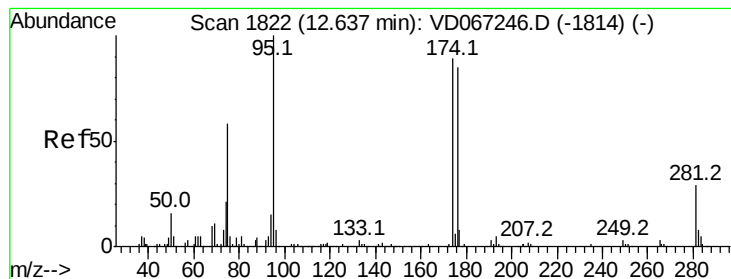
58 173.6 35.7 53.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 48.323 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067324.D

Acq: 20 Oct 2020 15:18

Instrument :

MSVOA_D

ClientSampleId :

33A

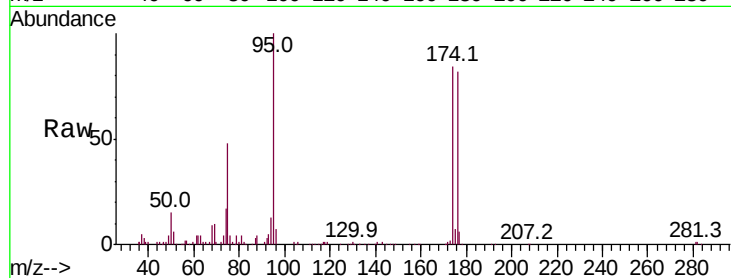
Tot Ion: 95 Resp: 195840

Ion Ratio Lower Upper

95 100

174 87.8 0.0 175.2

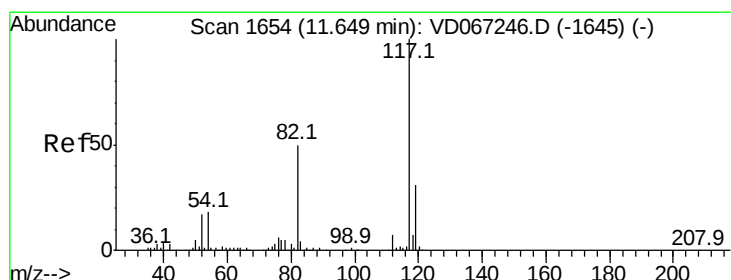
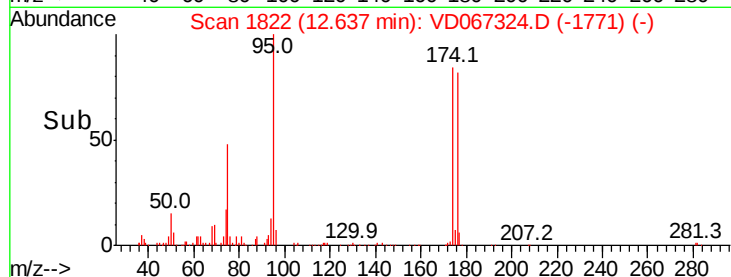
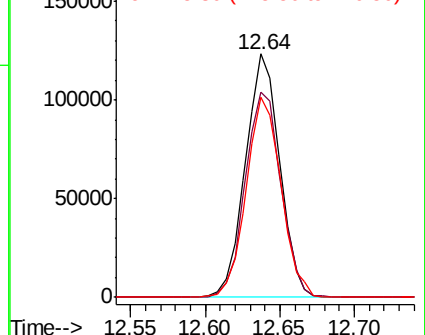
176 83.6 0.0 168.6



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: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD067324.D

Acq: 20 Oct 2020 15:18

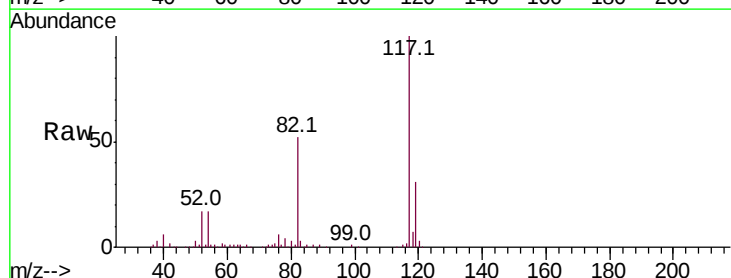
Tgt Ion: 117 Resp: 463476

Ion Ratio Lower Upper

117 100

82 52.3 39.9 59.9

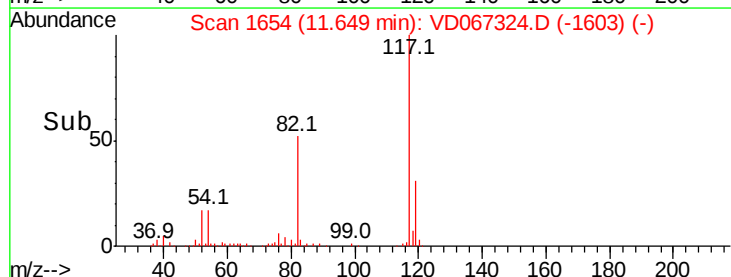
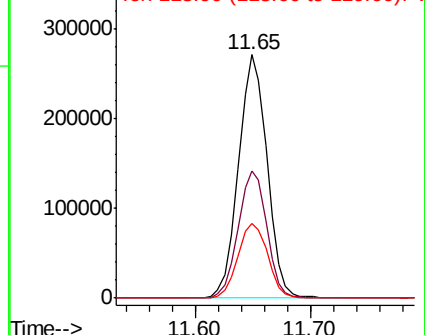
119 30.8 24.9 37.3

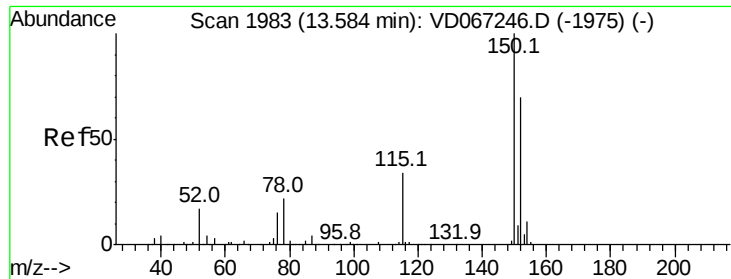


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1983

Delta R.T. -0.00 min

Lab File: VD067324.D

Acq: 20 Oct 2020 15:18

Instrument :

MSVOA_D

ClientSampled :

33A

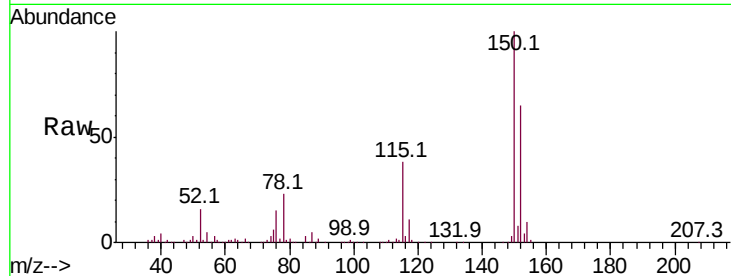
Tot Ion:152 Resp: 207139

Ion Ratio Lower Upper

152 100

115 60.1 29.3 87.9

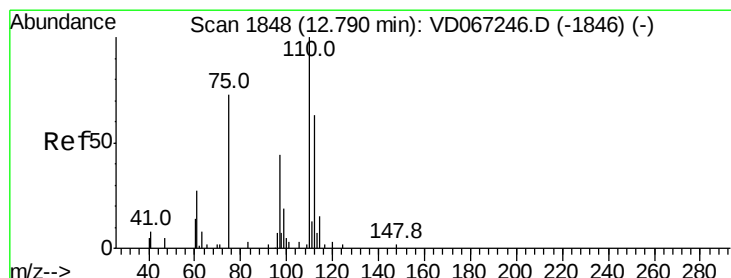
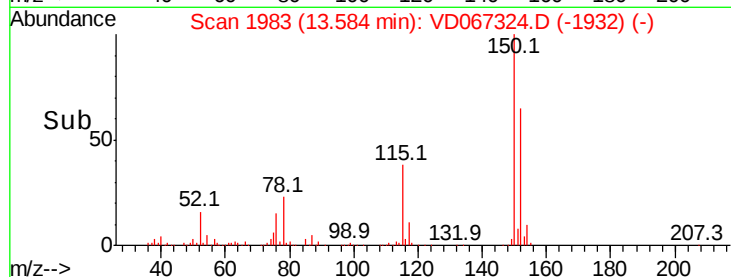
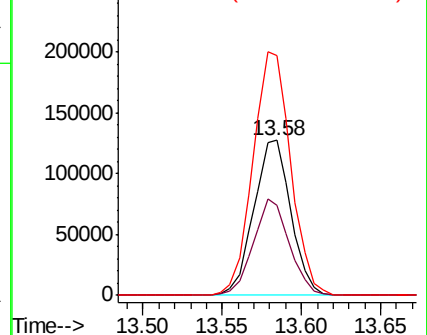
150 160.2 0.0 339.0



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: 68.229 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067324.D

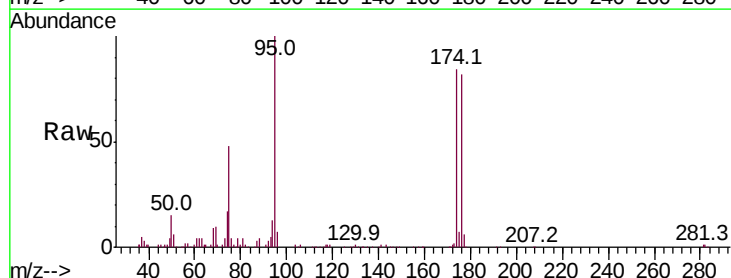
Acq: 20 Oct 2020 15:18

Tgt Ion: 75 Resp: 97955

Ion Ratio Lower Upper

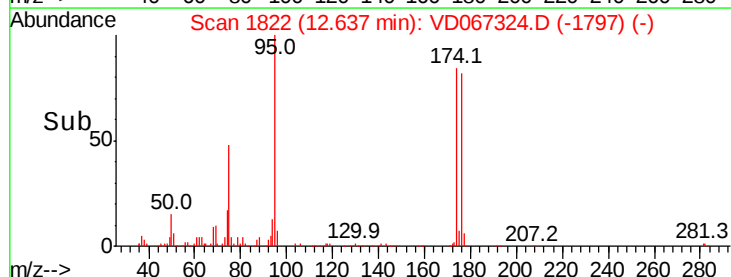
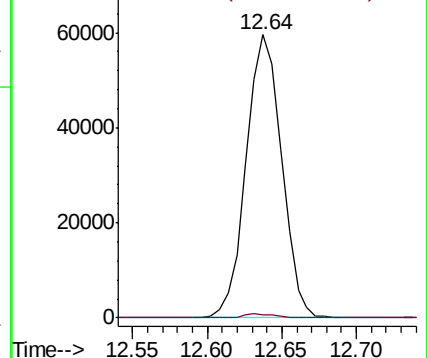
75 100

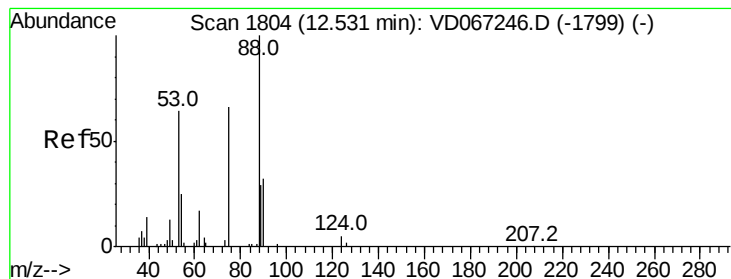
77 1.3 0.0 0.0#



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: 154.724 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067324.D

Acq: 20 Oct 2020 15:18

Instrument :

MSVOA_D

ClientSampleId :

33A

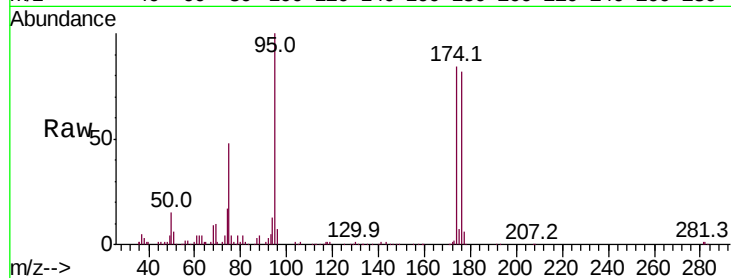
Tot Ion: 75 Resp: 97955

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.1 39.9 59.9#



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

