

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102020\
 Data File : VD067326.D
 Acq On : 20 Oct 2020 16:12
 Operator : VA/SY
 Sample : L4436-06
 Misc : 12.46G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 35A

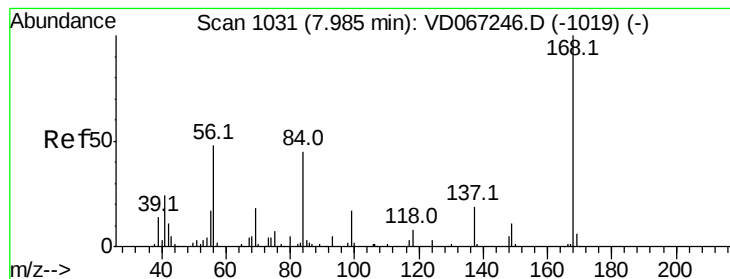
Quant Time: Oct 21 01:50:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	309863	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	550211	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	520569	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	223254	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	179188	57.72	ug/l	0.00
Spiked Amount			Recovery	=	115.44%	
35) Dibromofluoromethane	7.92	113	182327	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
50) Toluene-d8	10.34	98	642617	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
62) 4-Bromofluorobenzene	12.64	95	211405	45.88	ug/l	0.00
Spiked Amount			Recovery	=	91.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	176	Below Cal	#	44
5) Bromomethane	2.79	94	114	Below Cal	#	63
11) Tert butyl alcohol	5.21	59	61	Below Cal	#	81
20) Methylene Chloride	4.97	84	1431	Below Cal	#	52
29) Tetrahydrofuran	7.57	42	1238	4.494	ug/l #	82
31) Cyclohexane	7.99	56	6223	1.740	ug/l #	36
36) 1,1-Dichloropropene	7.98	75	22636	4.854	ug/l #	49
38) Carbon Tetrachloride	7.98	117	31608	5.303	ug/l #	17
41) Methacrylonitrile	7.56	41	774	1.044	ug/l #	17
51) 4-Methyl-2-Pentanone	10.34	43	2843	2.094	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	108797	70.311	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	108797	159.445	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067326.D

Acq: 20 Oct 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

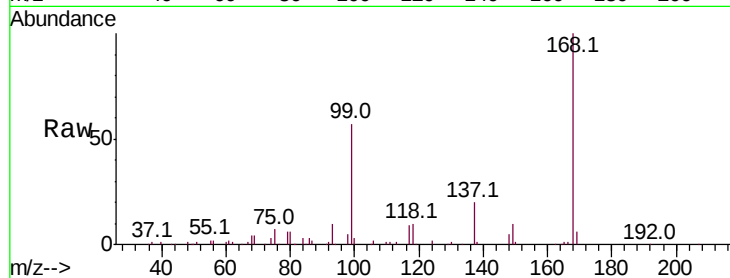
35A

Tot Ion:168 Resp: 309863

Ion Ratio Lower Upper

168 100

99 57.5 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

150000

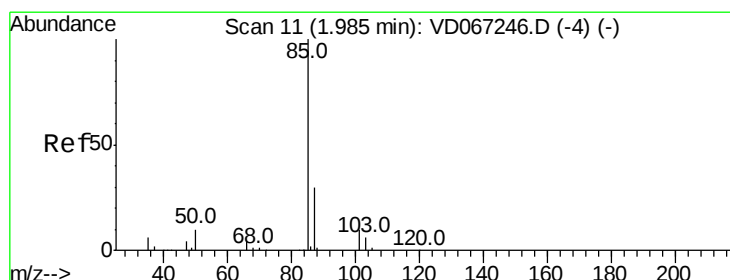
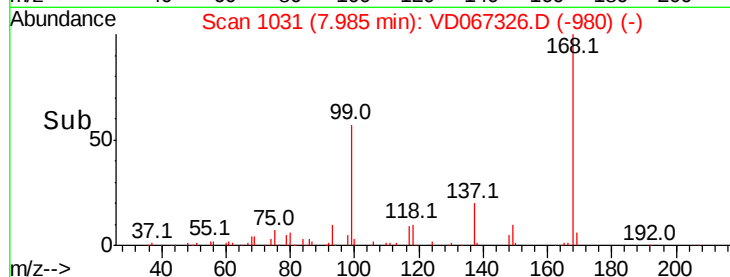
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067326.D

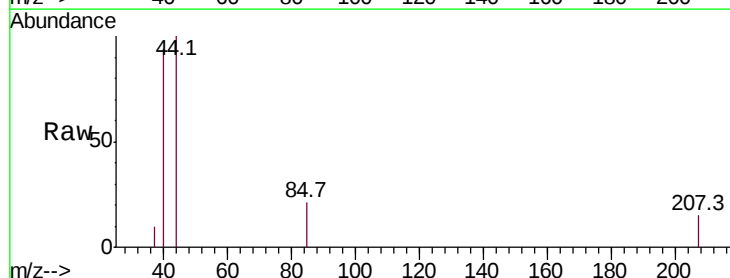
Acq: 20 Oct 2020 16:12

Tgt Ion: 85 Resp: 176

Ion Ratio Lower Upper

85 100

87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

400

300

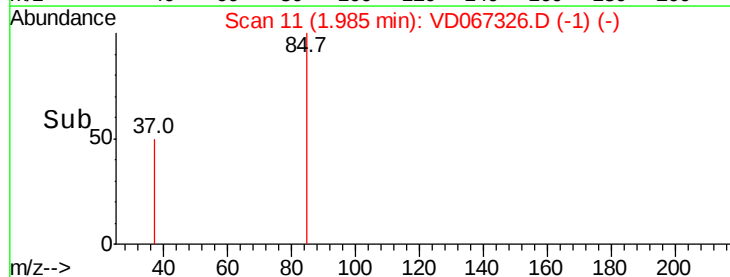
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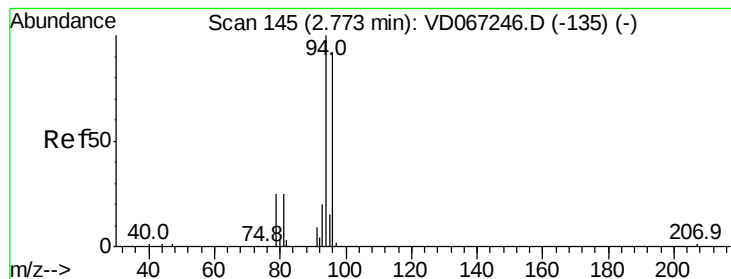
100

0

1.96 1.98 2.00

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD067326.D

Acq: 20 Oct 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

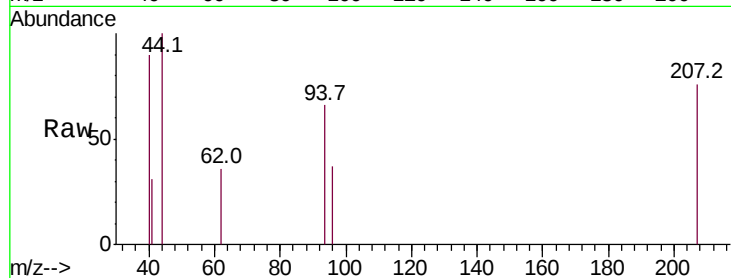
35A

Tot Ion: 94 Resp: 114

Ion Ratio Lower Upper

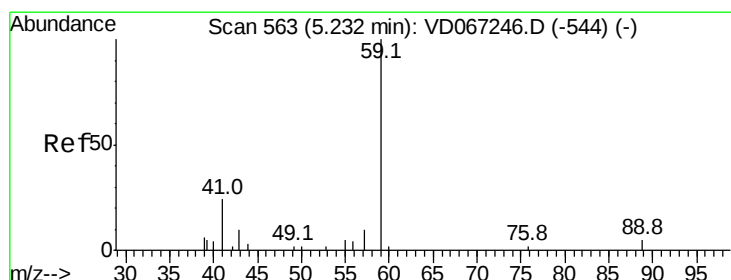
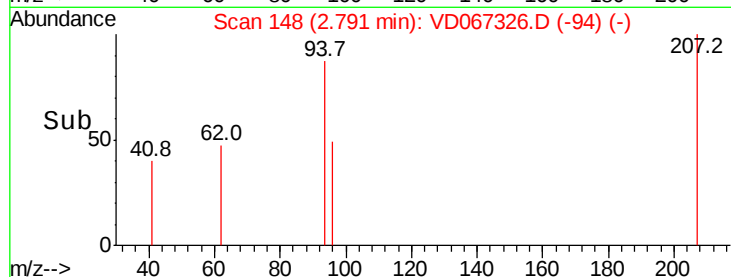
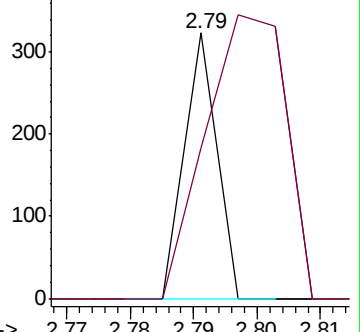
94 100

96 56.7 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 559

Delta R.T. -0.02 min

Lab File: VD067326.D

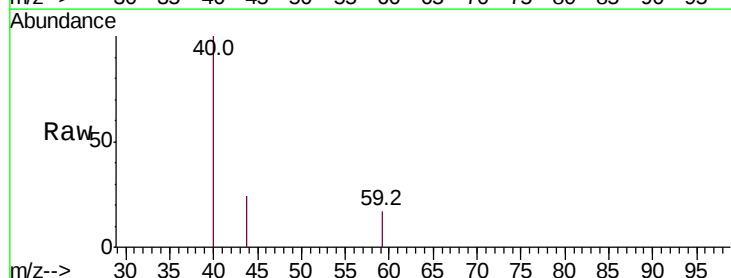
Acq: 20 Oct 2020 16:12

Tgt Ion: 59 Resp: 61

Ion Ratio Lower Upper

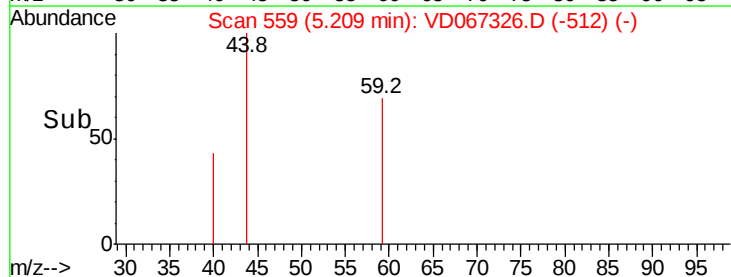
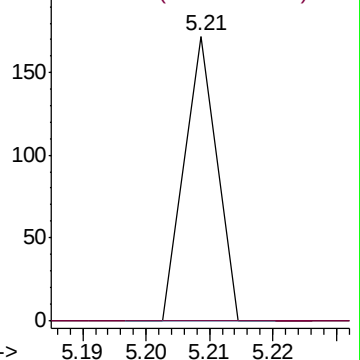
59 100

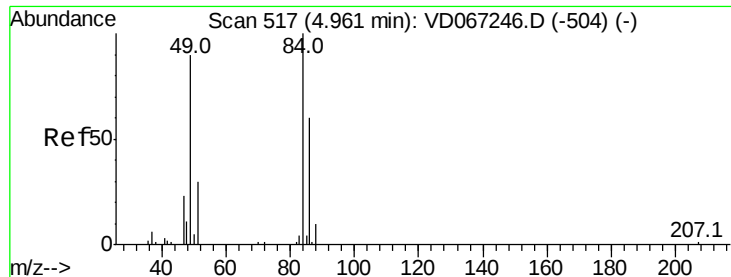
57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

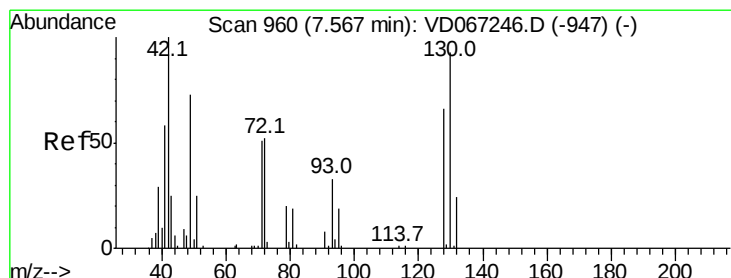
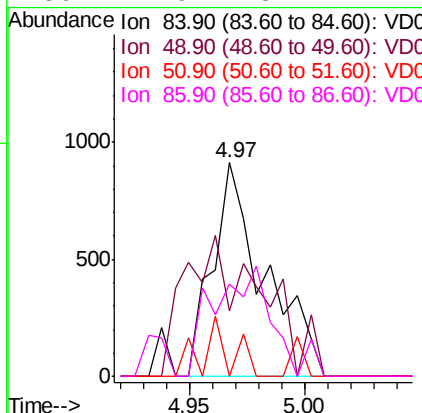
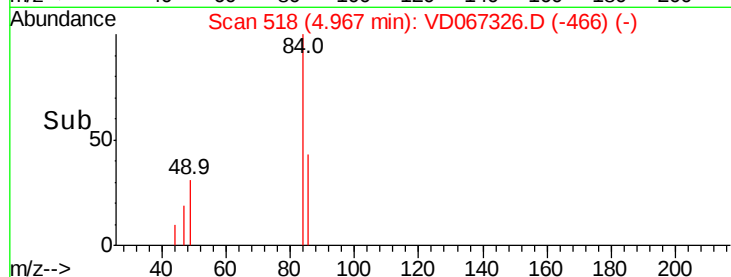
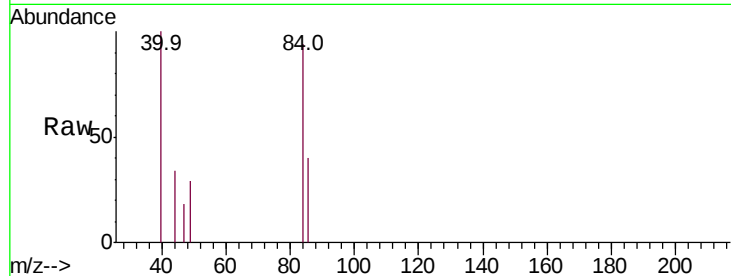




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD067326.D
Acq: 20 Oct 2020 16:12

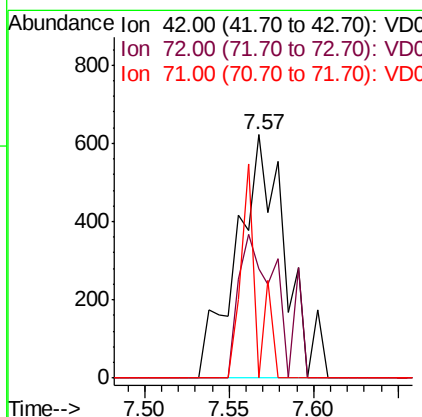
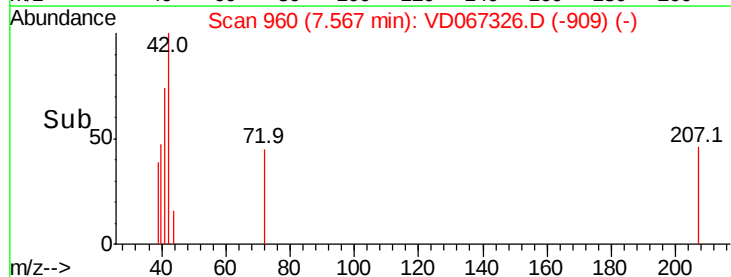
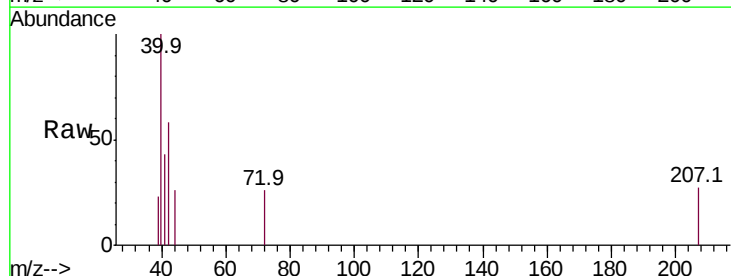
Instrument :
MSVOA_D
ClientSampleId :
35A

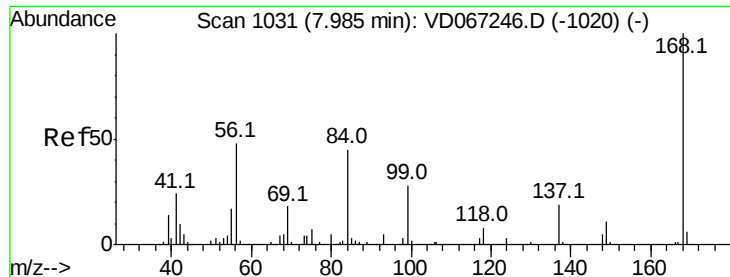
Tot Ion: 84 Resp: 1431
Ion Ratio Lower Upper
84 100
49 30.8 72.2 108.2#
51 0.0 23.8 35.8#
86 42.9 48.2 72.4#



#29
Tetrahydrofuran
Concen: 4.494 ug/l
RT: 7.57 min Scan# 960
Delta R.T. 0.00 min
Lab File: VD067326.D
Acq: 20 Oct 2020 16:12

Tgt Ion: 42 Resp: 1238
Ion Ratio Lower Upper
42 100
72 49.1 43.2 64.8
71 28.4 39.4 59.0#

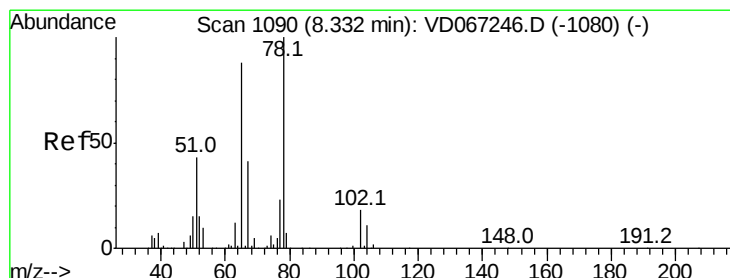
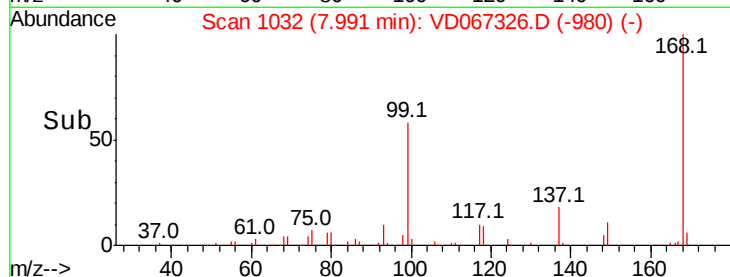
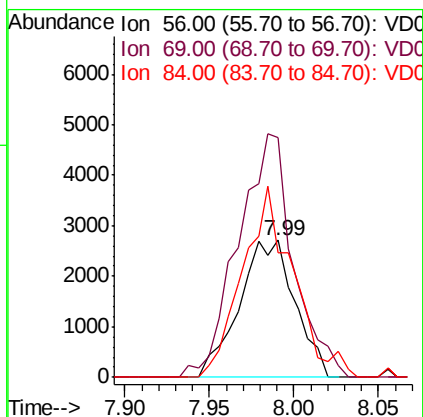
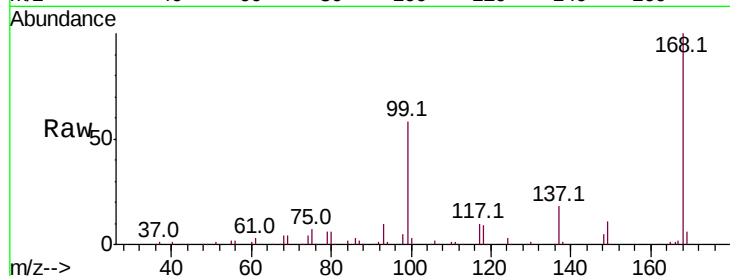




#31
Cyclohexane
Concen: 1.740 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD067326.D
Acq: 20 Oct 2020 16:12

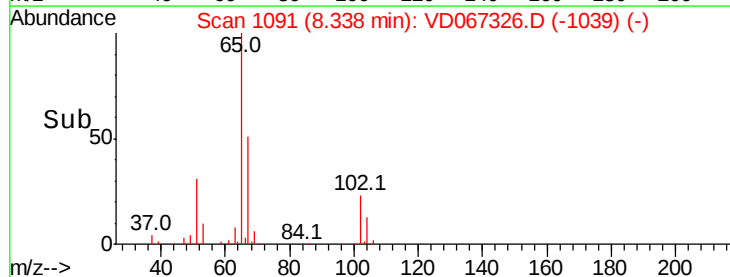
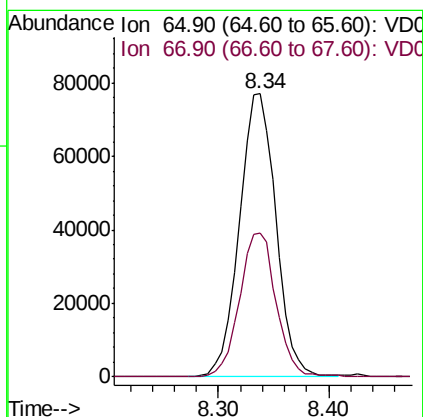
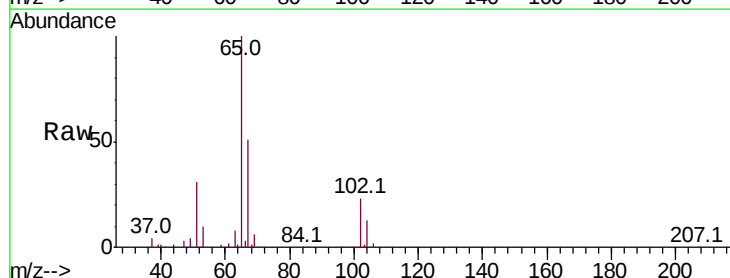
Instrument :
MSVOA_D
ClientSampleID :
35A

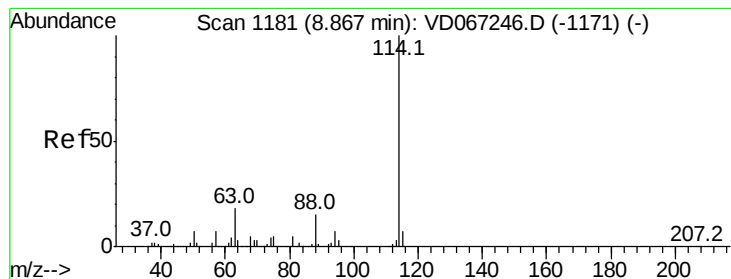
Tot Ion: 56 Resp: 6223
Ion Ratio Lower Upper
56 100
69 166.4 29.8 44.6#
84 91.4 76.6 114.8



#33
1,2-Dichloroethane-d4
Concen: 57.721 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD067326.D
Acq: 20 Oct 2020 16:12

Tgt Ion: 65 Resp: 179188
Ion Ratio Lower Upper
65 100
67 50.7 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067326.D

Acq: 20 Oct 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

35A

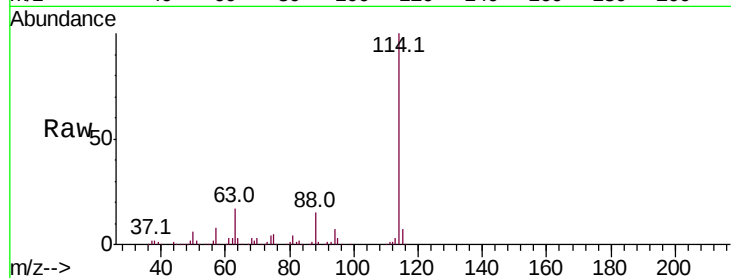
Tot Ion:114 Resp: 550211

Ion Ratio Lower Upper

114 100

63 17.1 0.0 35.0

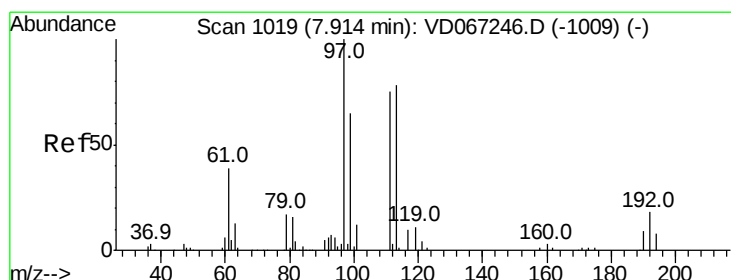
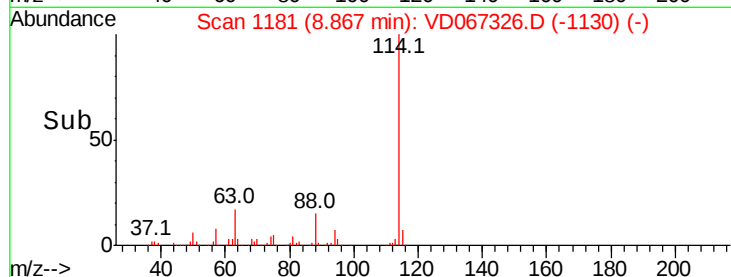
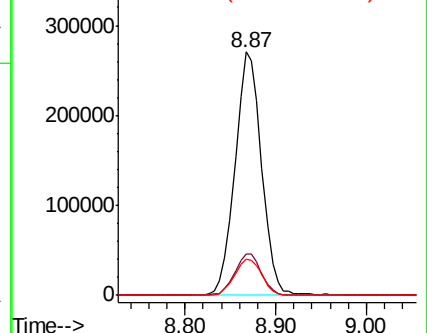
88 14.7 0.0 30.6



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: 49.794 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067326.D

Acq: 20 Oct 2020 16:12

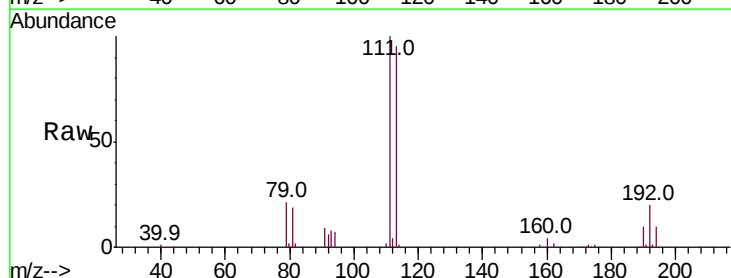
Tgt Ion:113 Resp: 182327

Ion Ratio Lower Upper

113 100

111 103.5 81.6 122.4

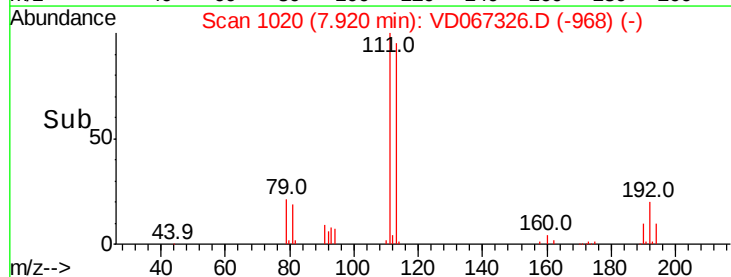
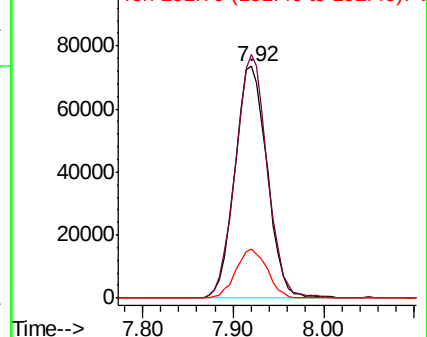
192 20.5 17.0 25.4

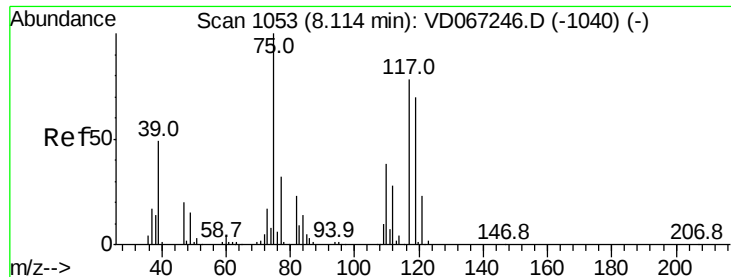


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.854 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067326.D

Acq: 20 Oct 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

35A

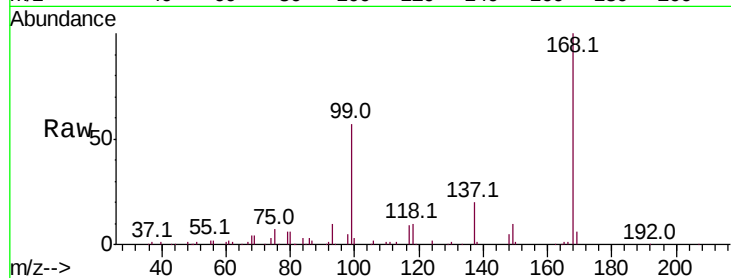
Tot Ion: 75 Resp: 22636

Ion Ratio Lower Upper

75 100

110 10.4 19.6 58.7#

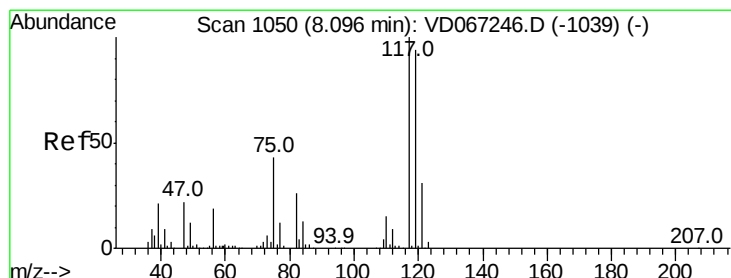
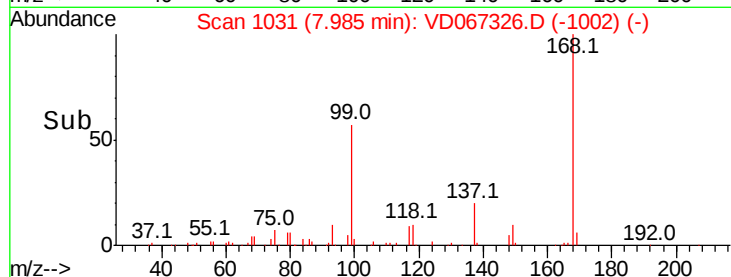
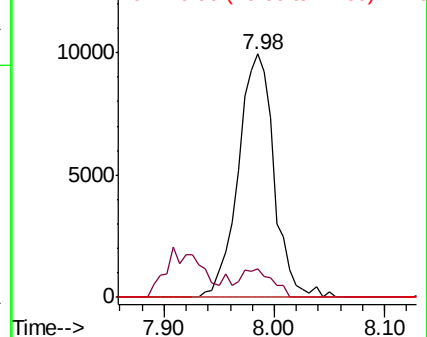
77 0.0 24.6 37.0#



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: 5.303 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067326.D

Acq: 20 Oct 2020 16:12

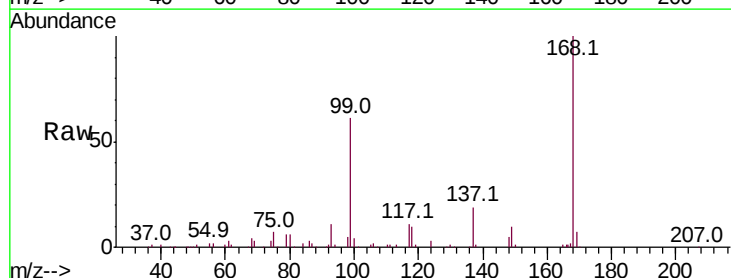
Tgt Ion: 117 Resp: 31608

Ion Ratio Lower Upper

117 100

119 5.4 75.0 112.4#

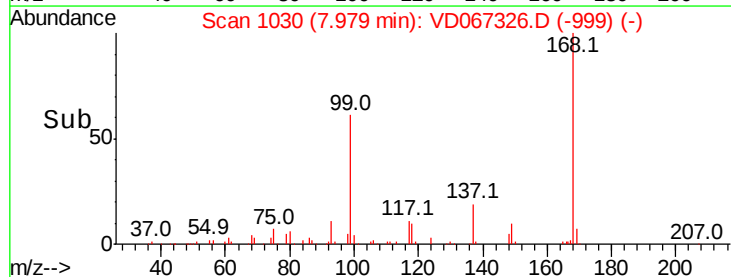
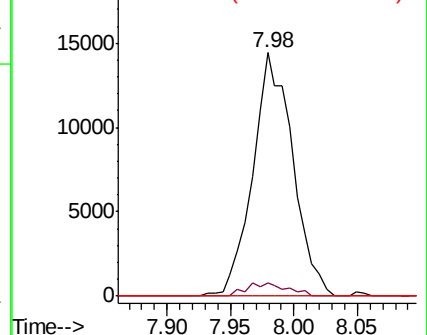
121 0.0 24.9 37.3#

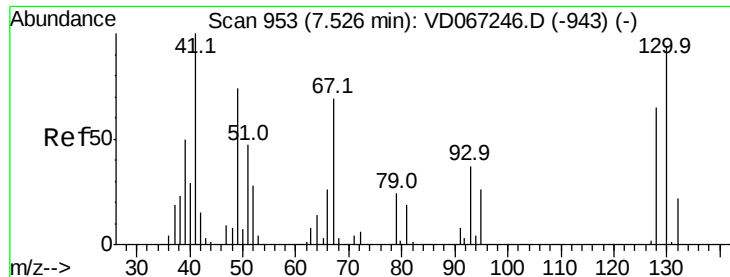


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

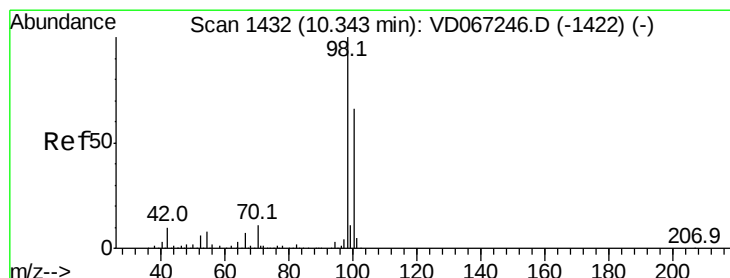
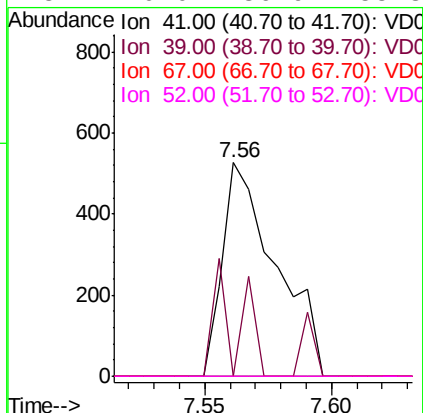
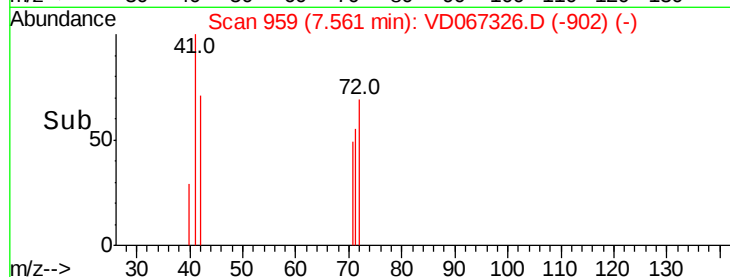
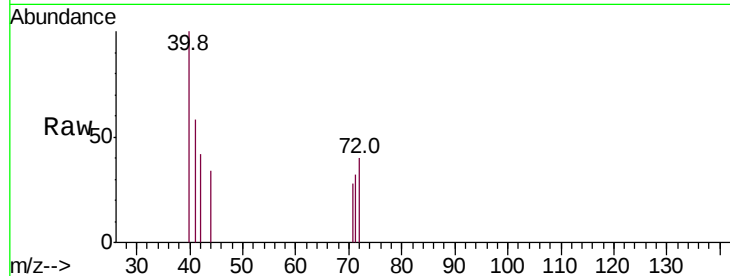




#41
Methacrylonitrile
Concen: 1.044 ug/l
RT: 7.56 min Scan# 959
Delta R.T. 0.04 min
Lab File: VD067326.D
Acq: 20 Oct 2020 16:12

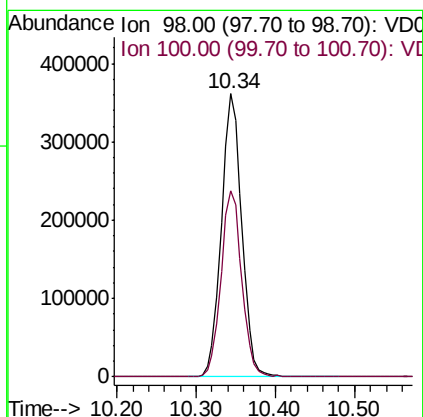
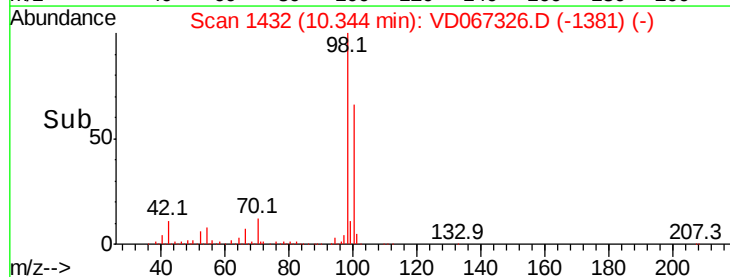
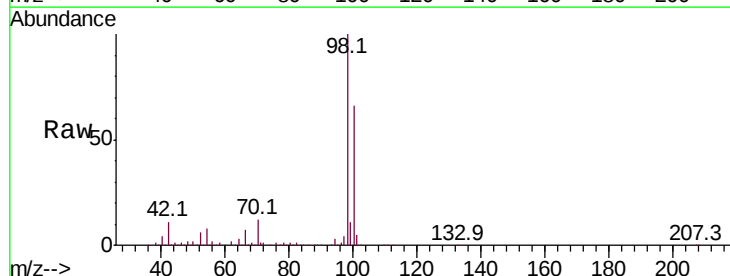
Instrument :
MSVOA_D
ClientSampleId :
35A

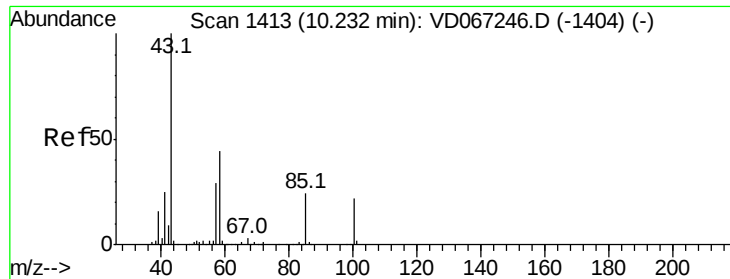
Tot Ion: 41 Resp: 774
Ion Ratio Lower Upper
41 100
39 24.4 60.0 90.0#
67 0.0 88.9 133.3#
52 0.0 36.9 55.3#



#50
Toluene-d8
Concen: 48.495 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067326.D
Acq: 20 Oct 2020 16:12

Tgt Ion: 98 Resp: 642617
Ion Ratio Lower Upper
98 100
100 66.7 53.1 79.7

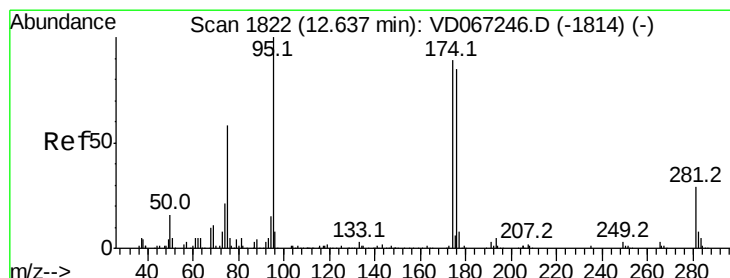
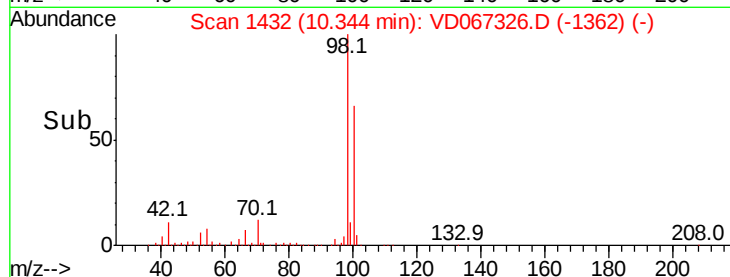
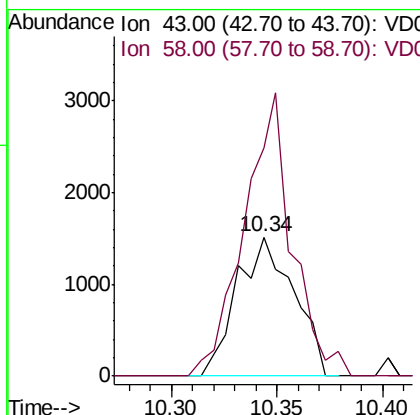
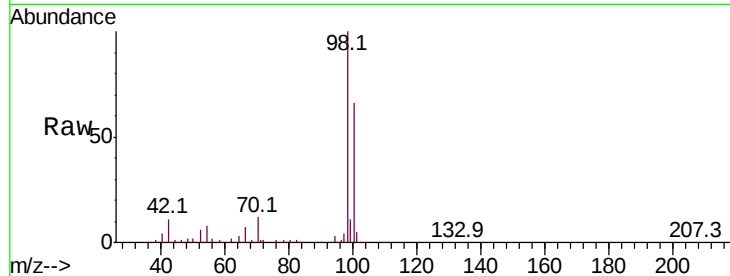




#51
4-Methyl-2-Pentanone
Concen: 2.094 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.11 min
Lab File: VD067326.D
Acq: 20 Oct 2020 16:12

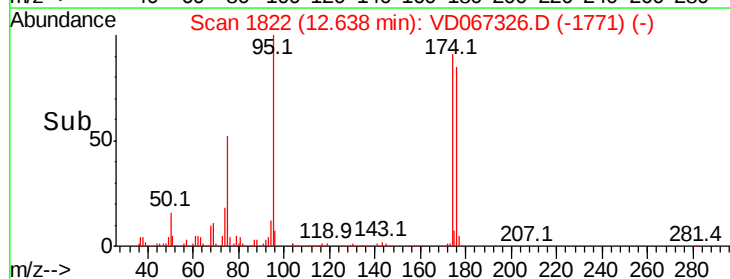
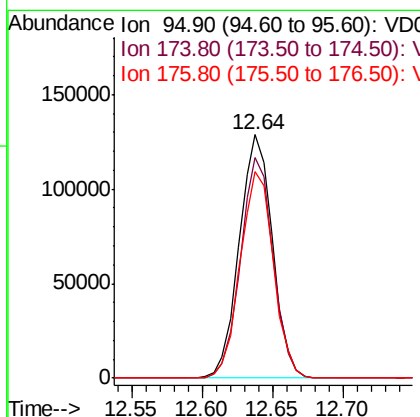
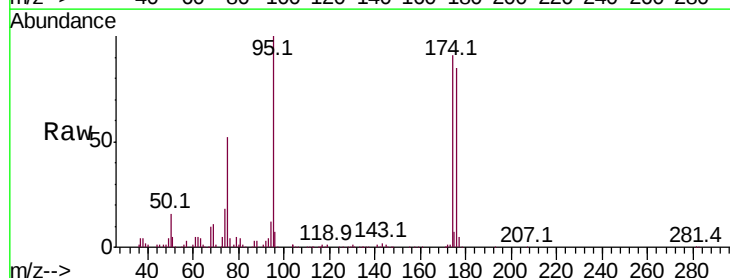
Instrument :
MSVOA_D
ClientSampleId :
35A

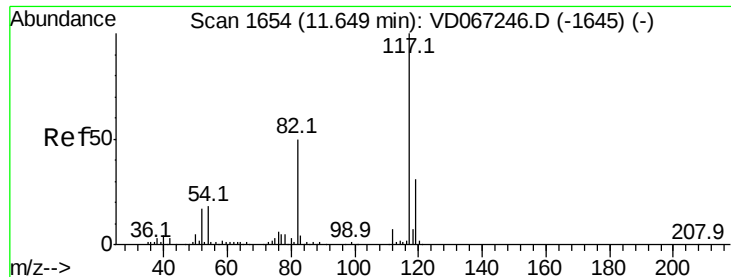
Tot Ion: 43 Resp: 2843
Ion Ratio Lower Upper
43 100
58 171.9 35.7 53.5#



#62
4-Bromofluorobenzene
Concen: 45.880 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067326.D
Acq: 20 Oct 2020 16:12

Tgt Ion: 95 Resp: 211405
Ion Ratio Lower Upper
95 100
174 89.1 0.0 175.2
176 85.1 0.0 168.6

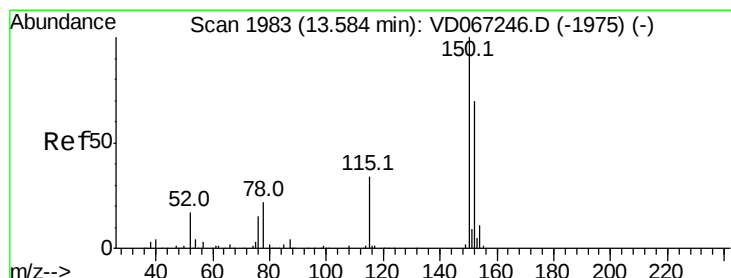
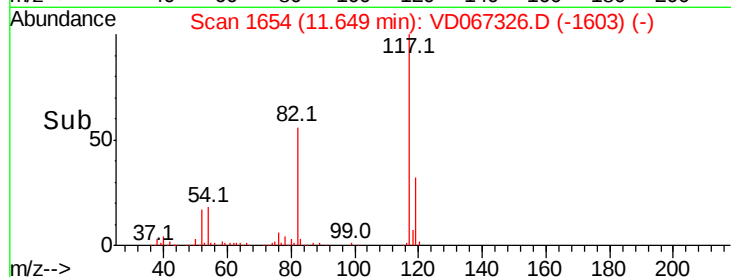
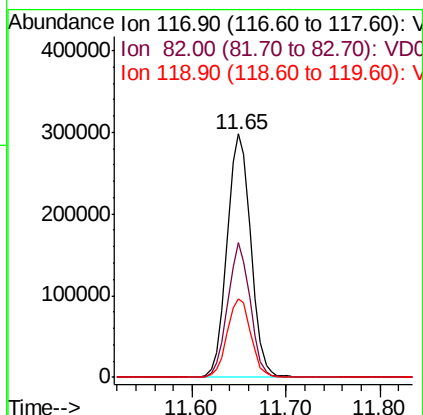
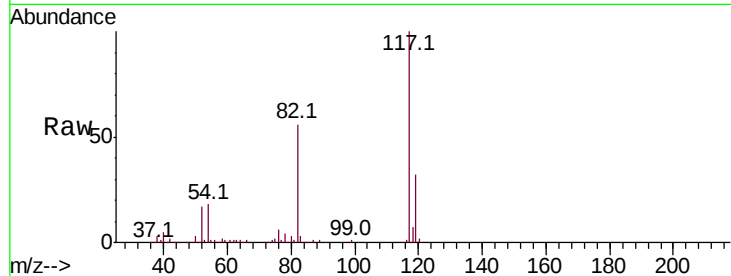




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067326.D
Acq: 20 Oct 2020 16:12

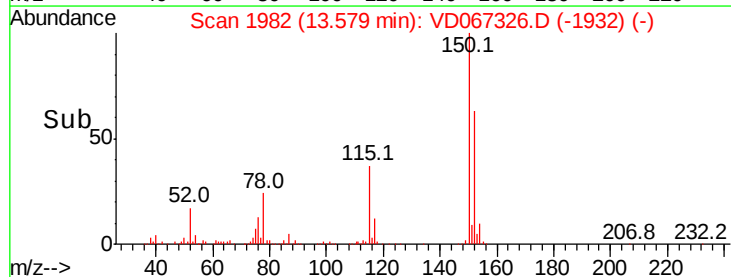
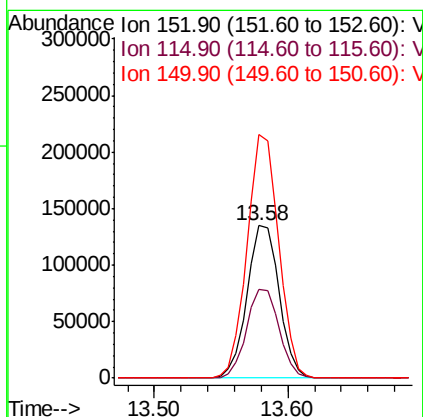
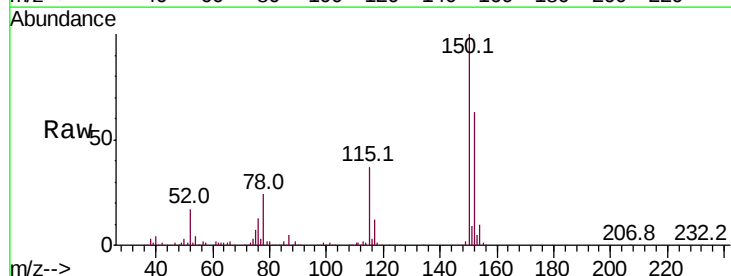
Instrument :
MSVOA_D
ClientSampleId :
35A

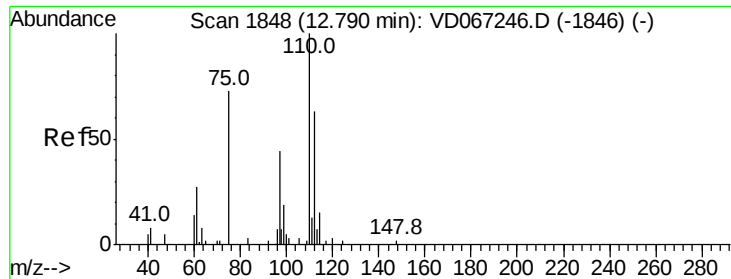
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.5	39.9	59.9
119	32.2	24.9	37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067326.D
Acq: 20 Oct 2020 16:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.0	29.3	87.9
150	157.3	0.0	339.0





#76

1,2,3-Trichloropropane

Concen: 70.311 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067326.D

Acq: 20 Oct 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

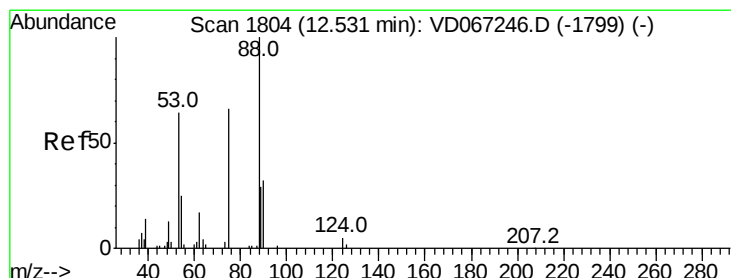
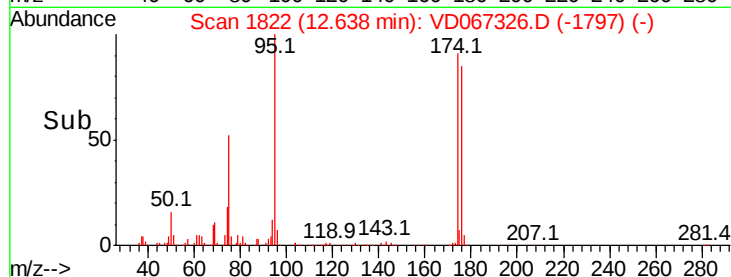
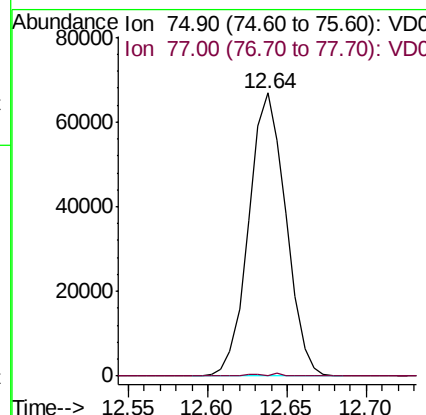
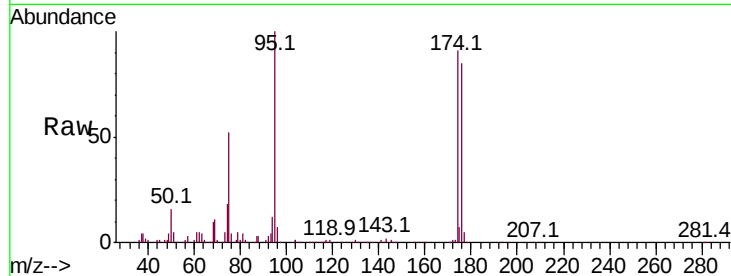
35A

Tot Ion: 75 Resp: 108797

Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 159.445 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067326.D

Acq: 20 Oct 2020 16:12

Tgt Ion: 75 Resp: 108797

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.0 39.9 59.9#

