

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111220\
 Data File : VD067626.D
 Acq On : 12 Nov 2020 16:35
 Operator : VA/SY
 Sample : L4735-01
 Misc : 4.22G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 R-LA-33-4-WC

Quant Time: Nov 13 00:30:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110320S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	338339	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	533523	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	532768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	271521	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	154982	52.39	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.78%	
35) Dibromofluoromethane	7.92	113	164314	51.12	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.24%	
50) Toluene-d8	10.34	98	617002	54.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.24%	
62) 4-Bromofluorobenzene	12.64	95	238037	61.03	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	122.06%	

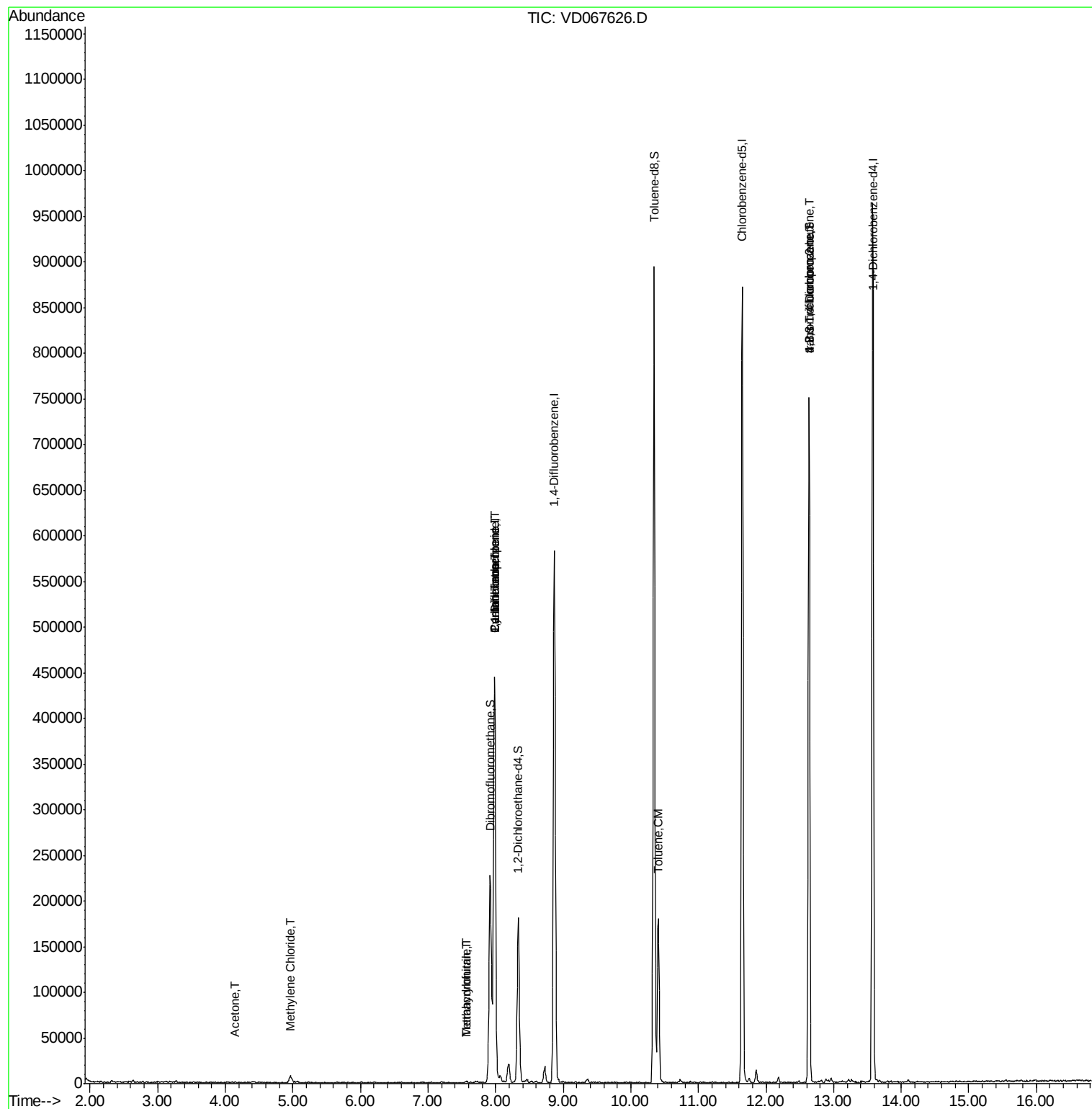
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	466	Below Cal	#	44
16) Acetone	4.16	43	507	1.145	ug/l #	43
20) Methylene Chloride	4.97	84	6184	1.977	ug/l	93
29) Tetrahydrofuran	7.57	42	921	3.250	ug/l #	28
31) Cyclohexane	7.98	56	9149	2.132	ug/l #	8
36) 1,1-Dichloropropene	7.98	75	22275	4.878	ug/l #	51
38) Carbon Tetrachloride	7.98	117	35113	5.918	ug/l #	17
41) Methacrylonitrile	7.57	41	846	1.194	ug/l #	24
52) Toluene	10.41	92	80834	9.756	ug/l	98
76) 1,2,3-Trichloropropane	12.64	75	121283	74.045	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	121283	150.330	ug/l #	10

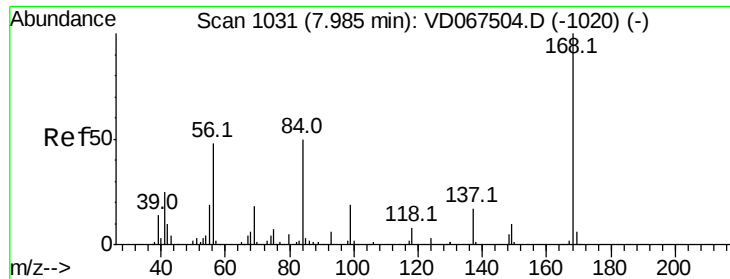
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 04 00:56:28 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

Instrument :

MSVOA_D

ClientSampleId :

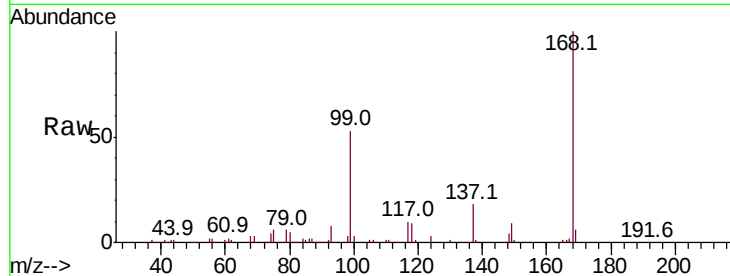
R-LA-33-4-WC

Tot Ion:168 Resp: 338339

Ion Ratio Lower Upper

168 100

99 53.3 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

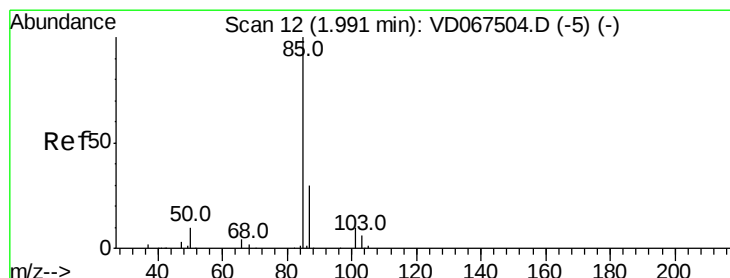
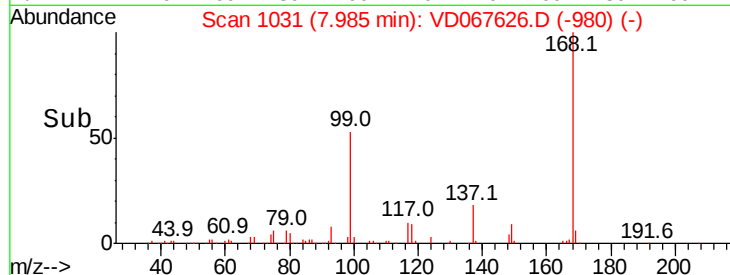
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. -0.01 min

Lab File: VD067626.D

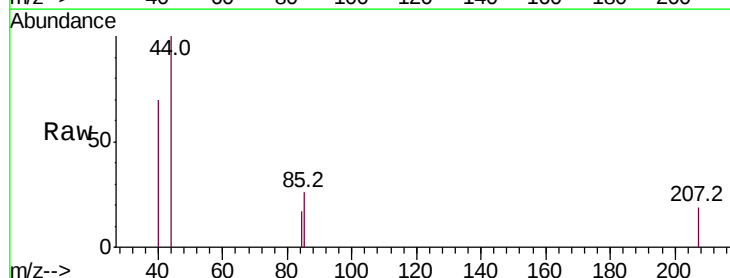
Acq: 12 Nov 2020 16:35

Tgt Ion: 85 Resp: 466

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

600

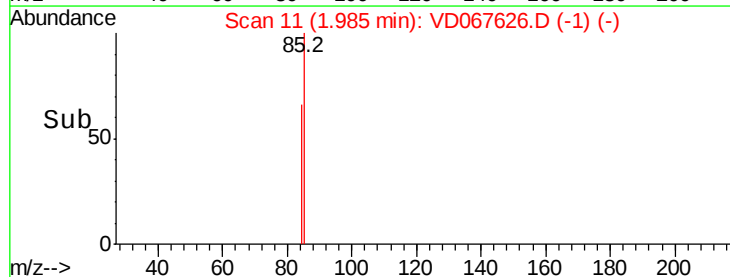
400

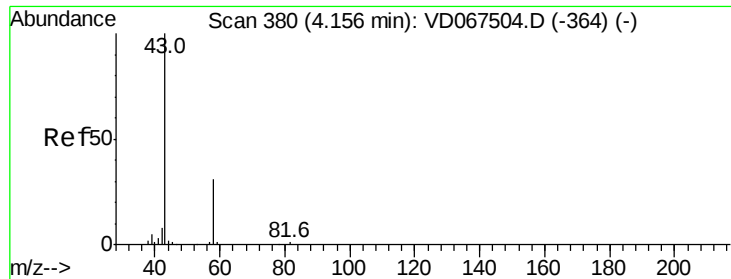
200

0

Time-->

1.96 1.98 2.00 2.02





#16

Acetone

Concen: 1.145 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

Instrument :

MSVOA_D

ClientSampleId :

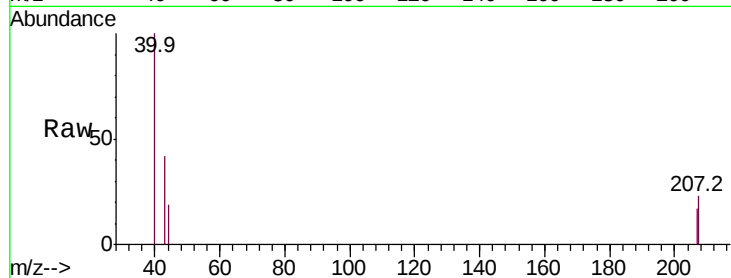
R-LA-33-4-WC

Tot Ion: 43 Resp: 507

Ion Ratio Lower Upper

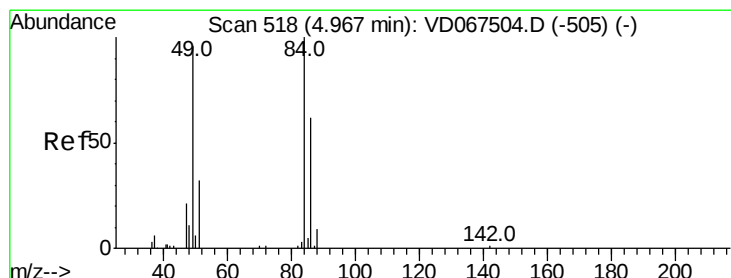
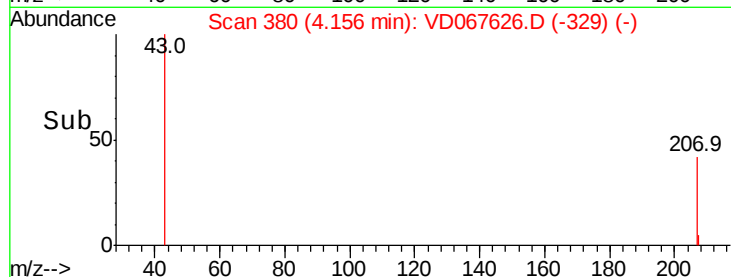
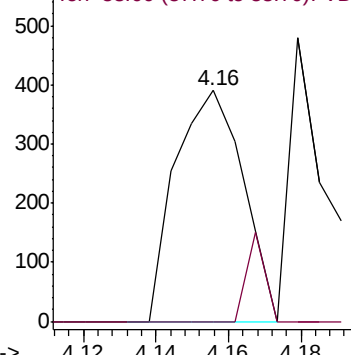
43 100

58 0.0 25.2 37.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 1.977 ug/l

RT: 4.97 min Scan# 518

Delta R.T. -0.00 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

Tgt Ion: 84 Resp: 6184

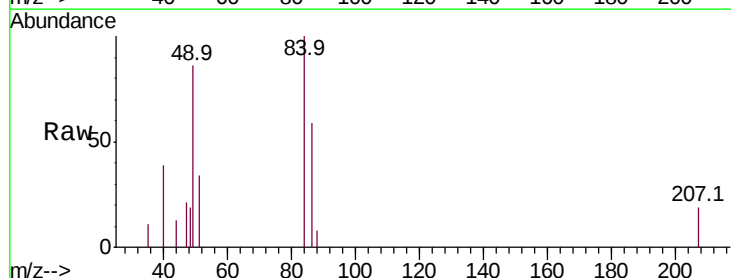
Ion Ratio Lower Upper

84 100

49 85.7 77.0 115.4

51 33.8 25.4 38.2

86 59.1 49.4 74.0

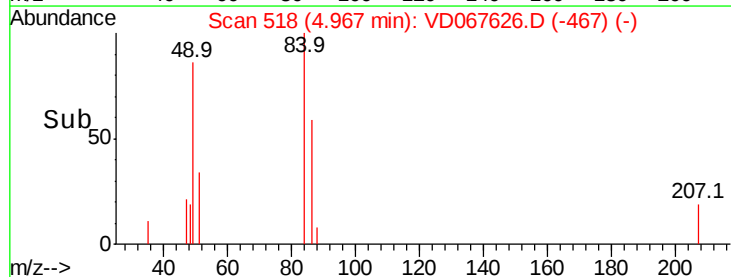
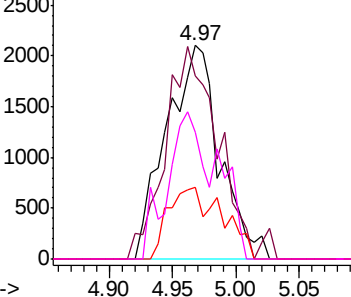


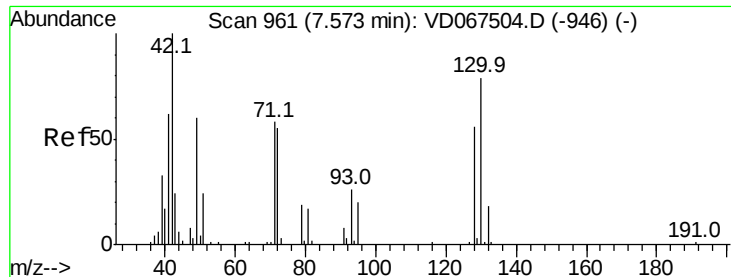
Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 3.250 ug/l

RT: 7.57 min Scan# 960

Delta R.T. -0.01 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

Instrument :

MSVOA_D

ClientSampleId :

R-LA-33-4-WC

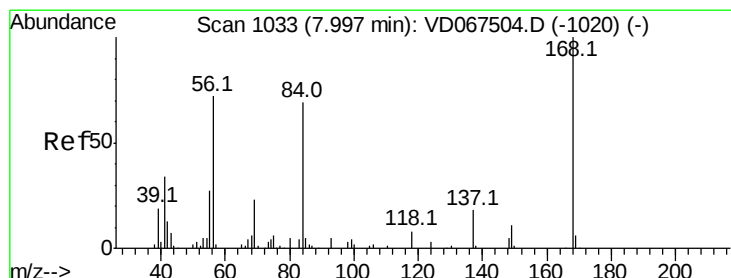
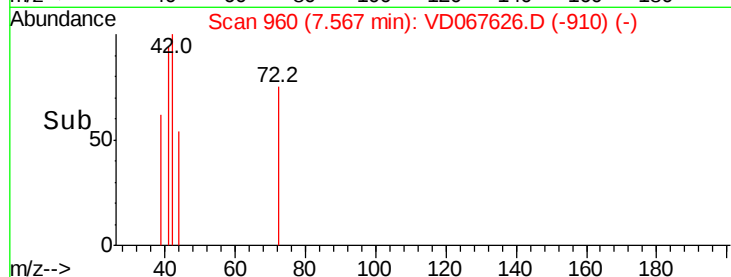
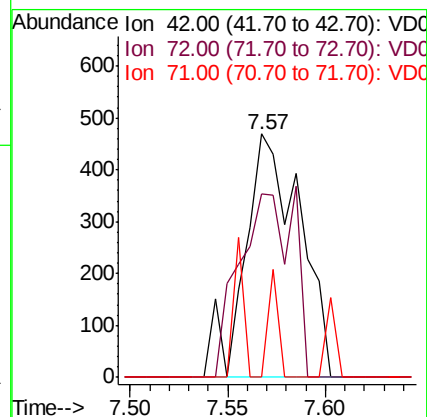
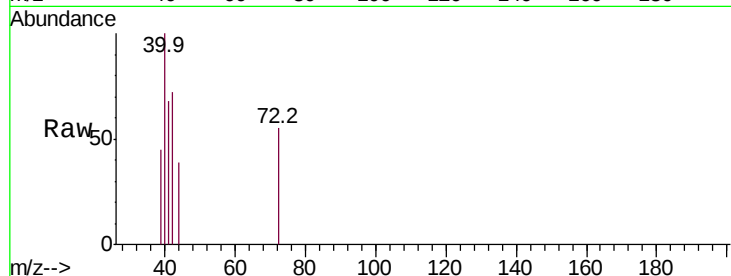
Tot Ion: 42 Resp: 921

Ion Ratio Lower Upper

42 100

72 0.0 46.3 69.5#

71 8.0 44.0 66.0#



#31

Cyclohexane

Concen: 2.132 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.02 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

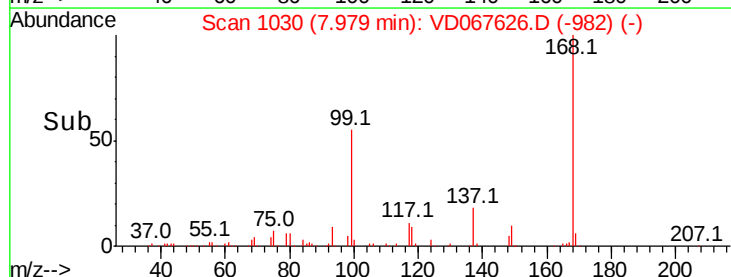
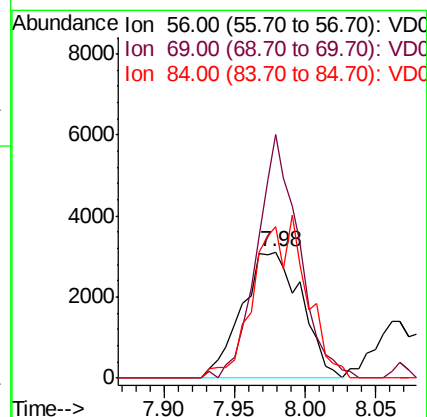
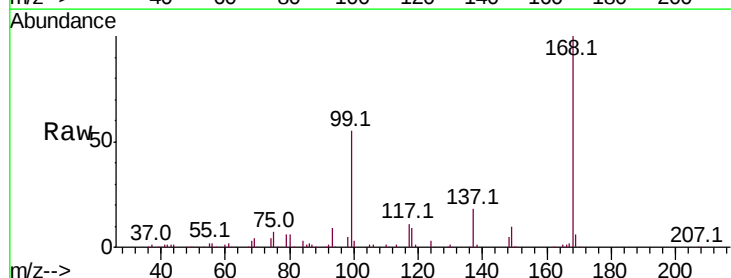
Tgt Ion: 56 Resp: 9149

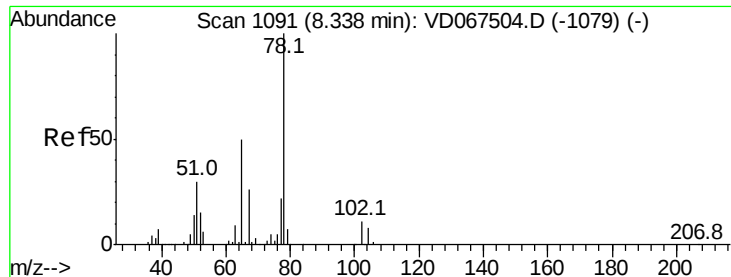
Ion Ratio Lower Upper

56 100

69 193.3 25.9 38.9#

84 120.2 76.2 114.4#





#33

1,2-Dichloroethane-d4

Concen: 52.387 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

Instrument :

MSVOA_D

ClientSampleId :

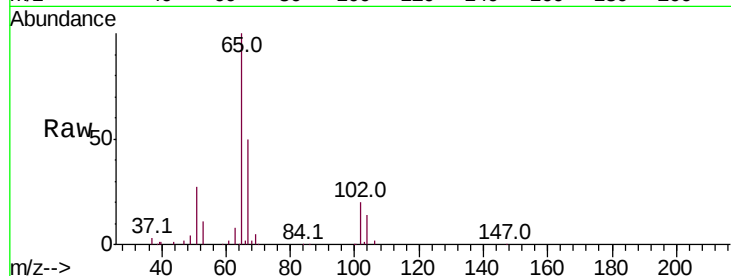
R-LA-33-4-WC

Tot Ion: 65 Resp: 154982

Ion Ratio Lower Upper

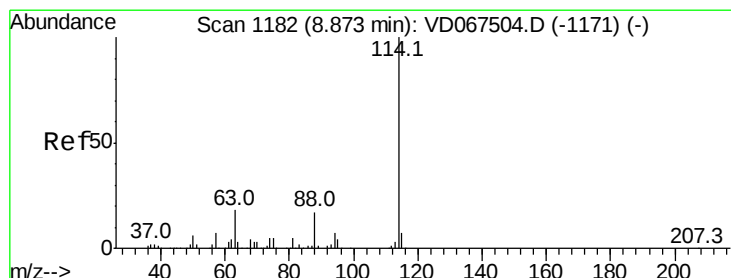
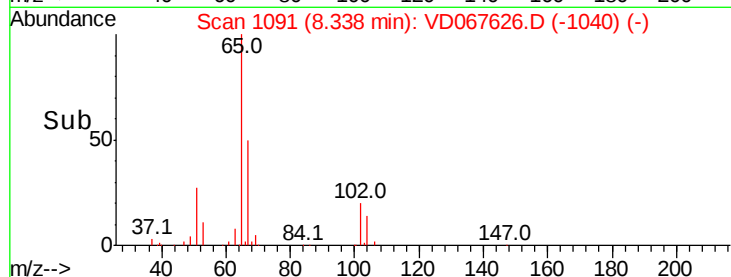
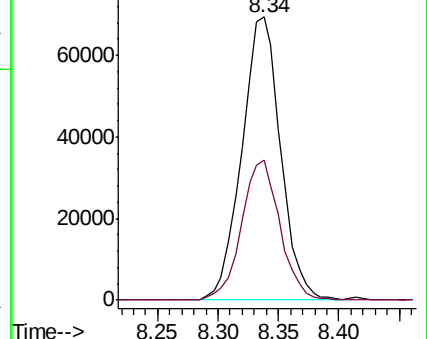
65 100

67 48.8 0.0 99.4



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. -0.01 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

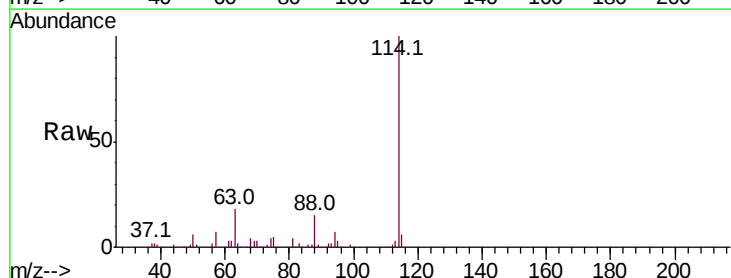
Tgt Ion: 114 Resp: 533523

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.0

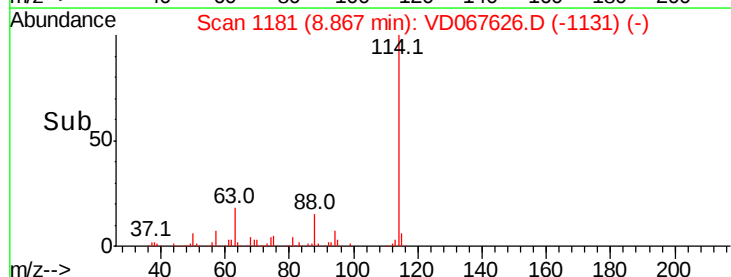
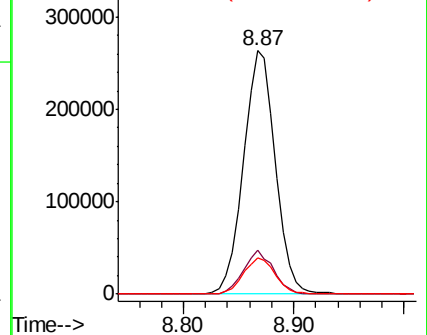
88 14.8 0.0 33.0

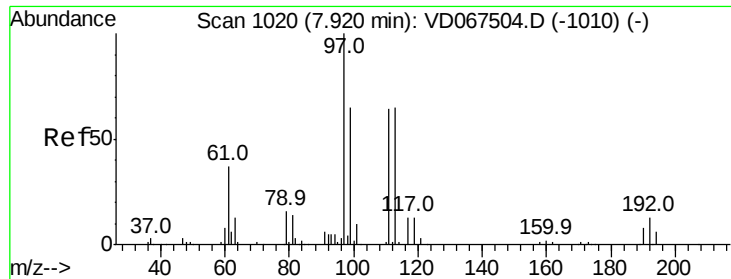


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

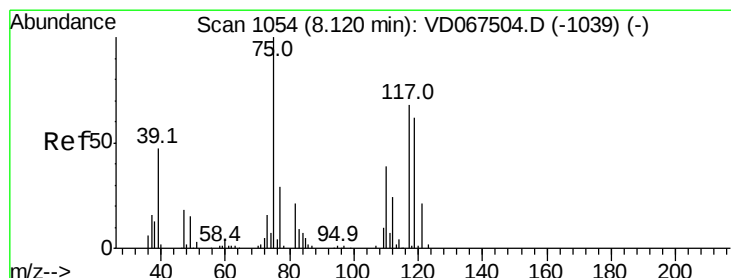
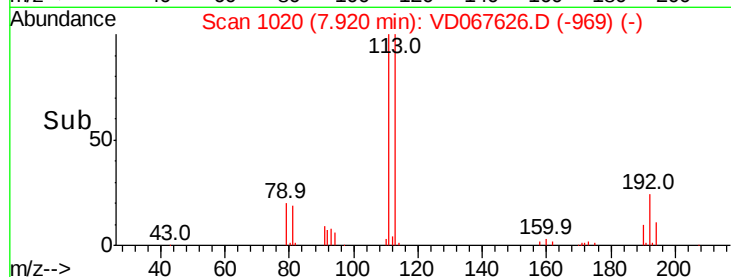
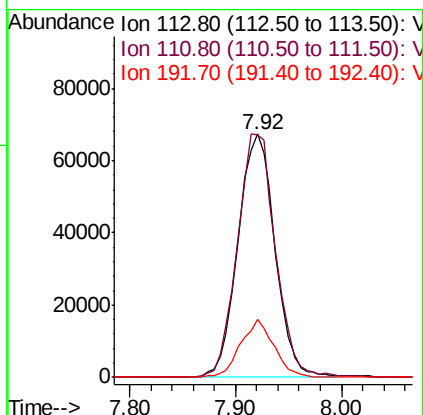
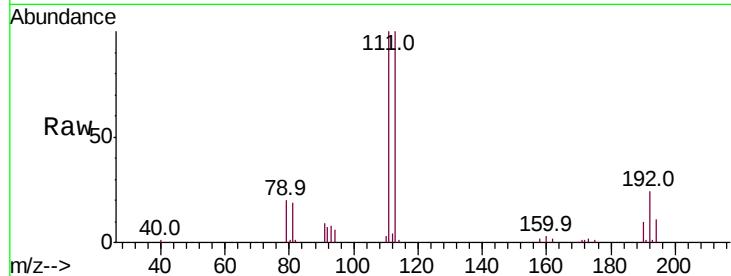




#35
 Dibromofluoromethane
 Concen: 51.117 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD067626.D
 Acq: 12 Nov 2020 16:35

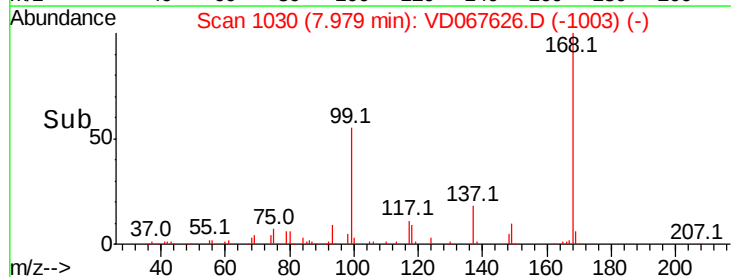
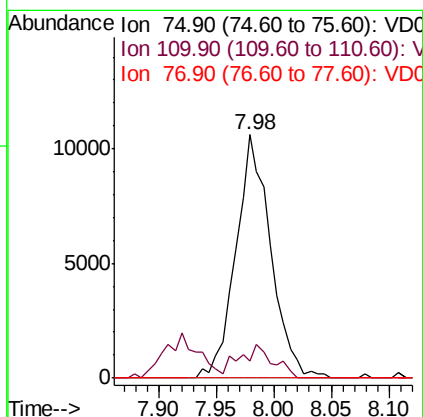
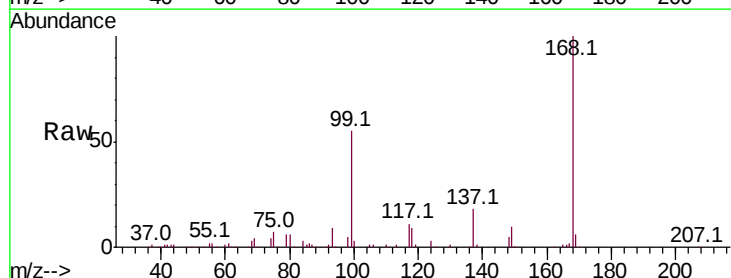
Instrument :
 MSVOA_D
 ClientSampleId :
 R-LA-33-4-WC

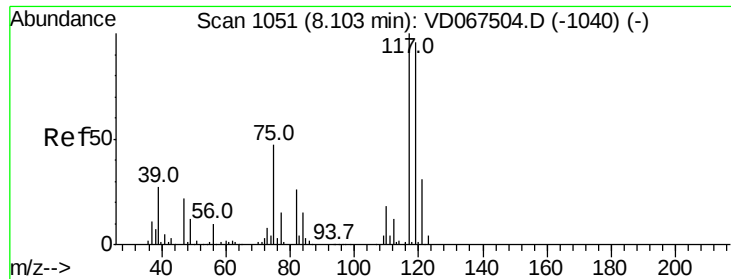
Tot Ion:113 Resp: 164314
 Ion Ratio Lower Upper
 113 100
 111 102.9 80.0 120.0
 192 21.3 16.3 24.5



#36
 1,1-Dichloropropene
 Concen: 4.878 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067626.D
 Acq: 12 Nov 2020 16:35

Tgt Ion: 75 Resp: 22275
 Ion Ratio Lower Upper
 75 100
 110 13.1 19.9 59.7#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 5.918 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

Instrument :

MSVOA_D

ClientSampleId :

R-LA-33-4-WC

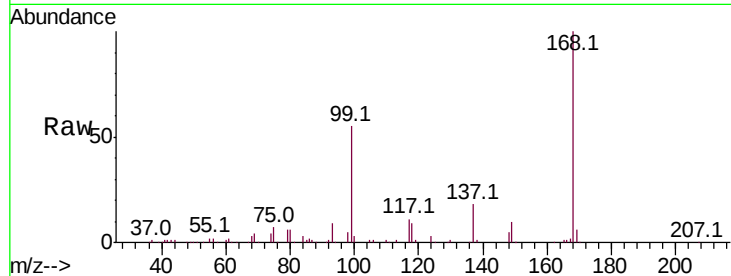
Tot Ion:117 Resp: 35113

Ion Ratio Lower Upper

117 100

119 6.9 76.9 115.3#

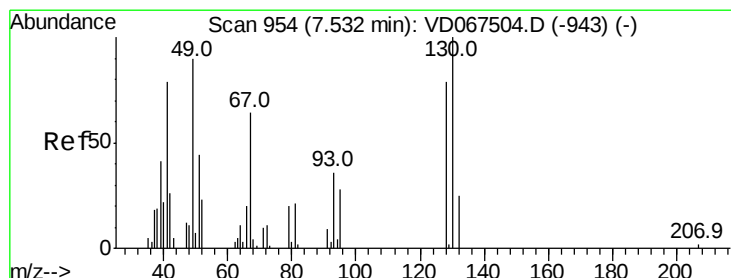
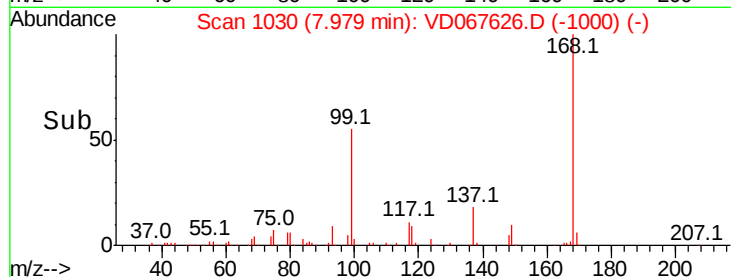
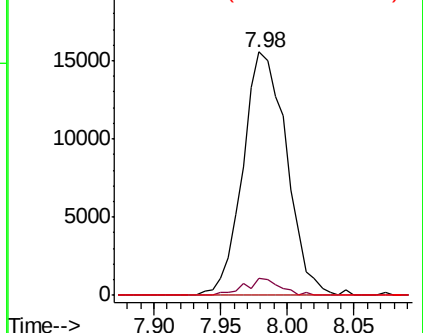
121 0.0 24.5 36.7#



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: 1.194 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.04 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

Tgt Ion: 41 Resp: 846

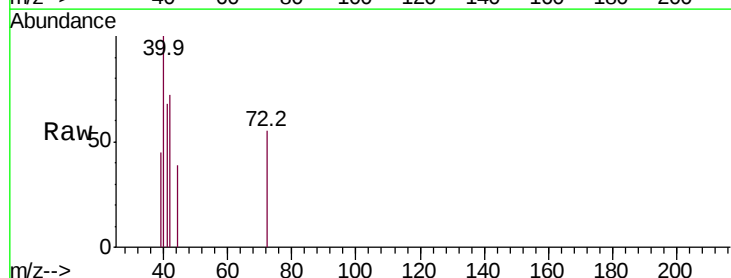
Ion Ratio Lower Upper

41 100

39 26.8 51.3 76.9#

67 0.0 78.9 118.3#

52 0.0 31.4 47.2#

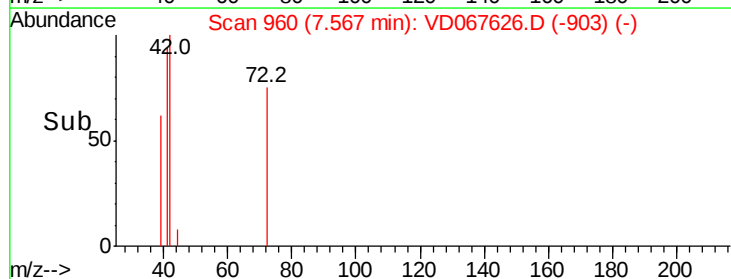
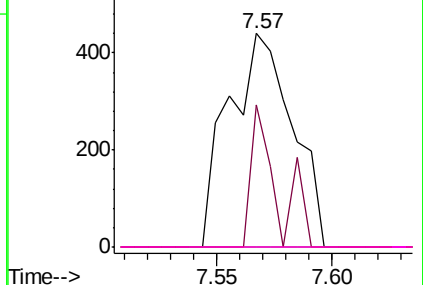


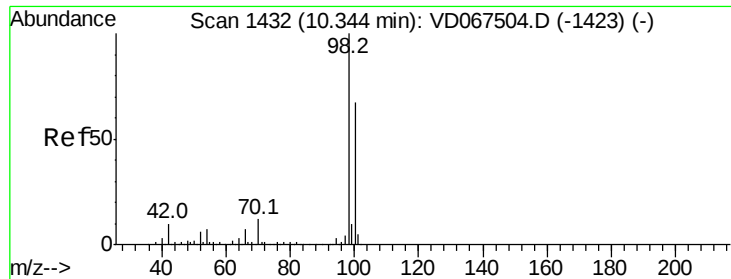
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

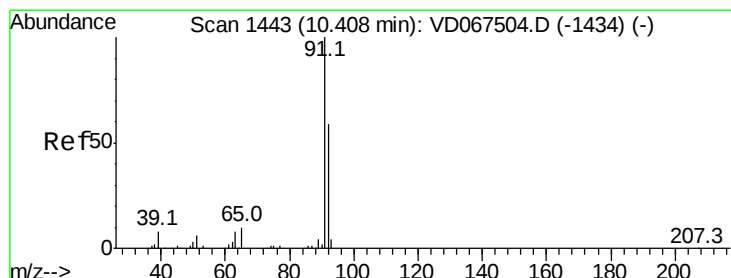
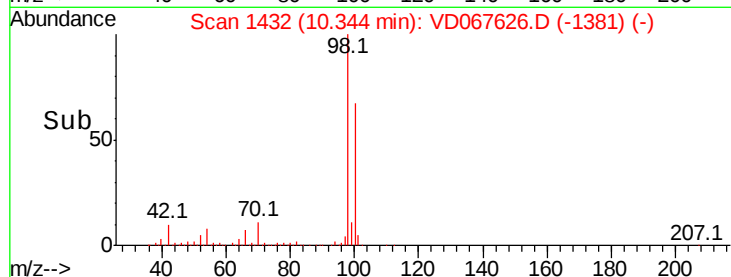
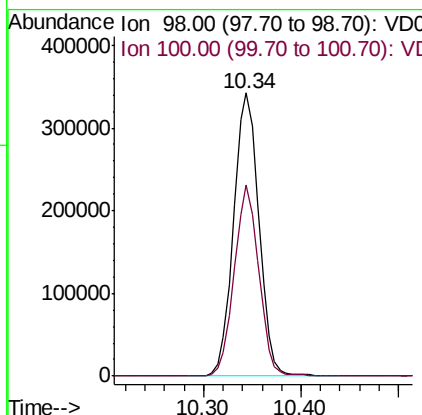
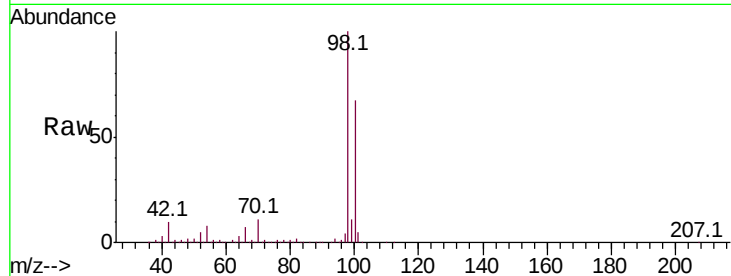




#50
Toluene-d8
Concen: 54.619 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD067626.D
Acq: 12 Nov 2020 16:35

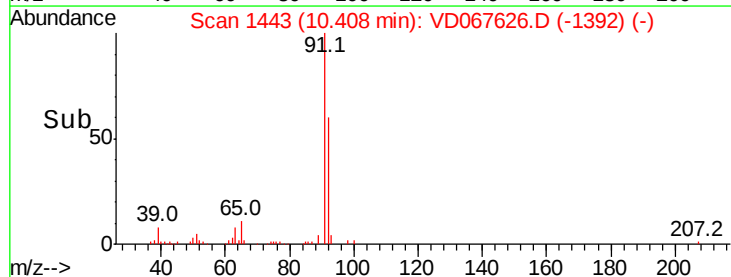
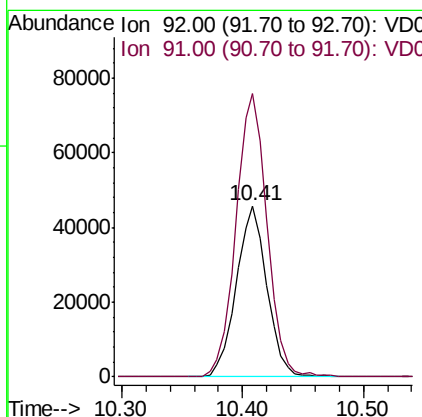
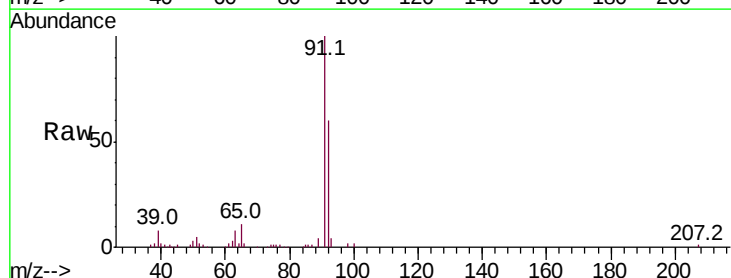
Instrument :
MSVOA_D
ClientSampleId :
R-LA-33-4-WC

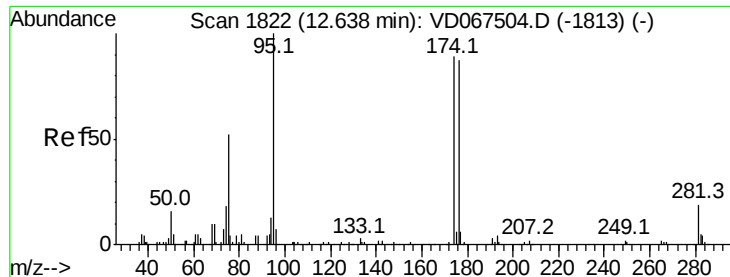
Tot Ion: 98 Resp: 617002
Ion Ratio Lower Upper
98 100
100 65.6 53.0 79.6



#52
Toluene
Concen: 9.756 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. -0.00 min
Lab File: VD067626.D
Acq: 12 Nov 2020 16:35

Tgt Ion: 92 Resp: 80834
Ion Ratio Lower Upper
92 100
91 168.6 137.0 205.6





#62

4-Bromofluorobenzene

Concen: 61.035 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

Instrument :

MSVOA_D

ClientSampleId :

R-LA-33-4-WC

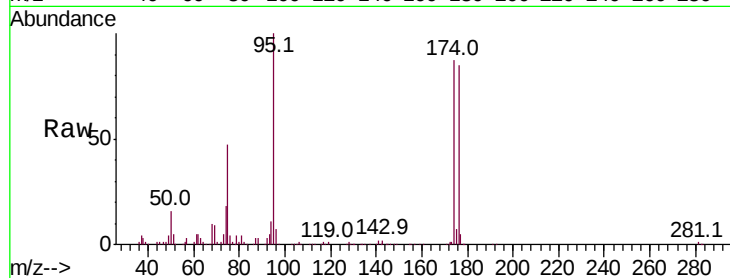
Tot Ion: 95 Resp: 238037

Ion Ratio Lower Upper

95 100

174 90.1 0.0 177.8

176 87.0 0.0 172.0



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

12.64

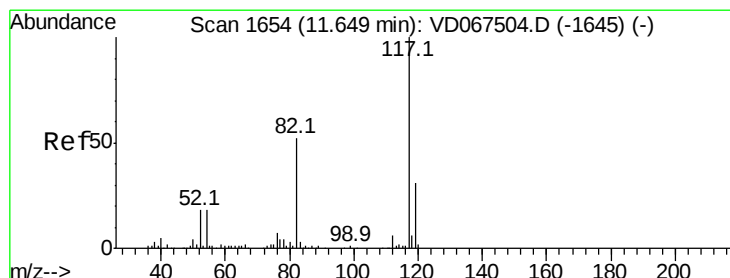
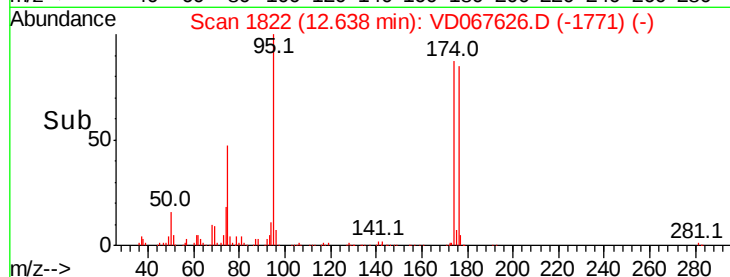
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

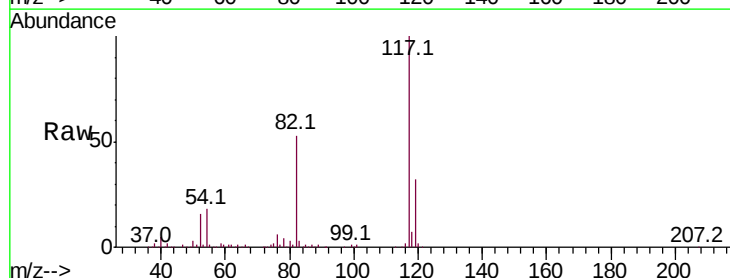
Tgt Ion: 117 Resp: 532768

Ion Ratio Lower Upper

117 100

82 53.1 41.6 62.4

119 32.4 25.1 37.7



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

400000

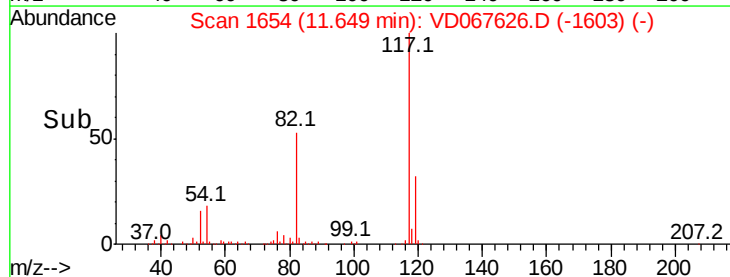
300000

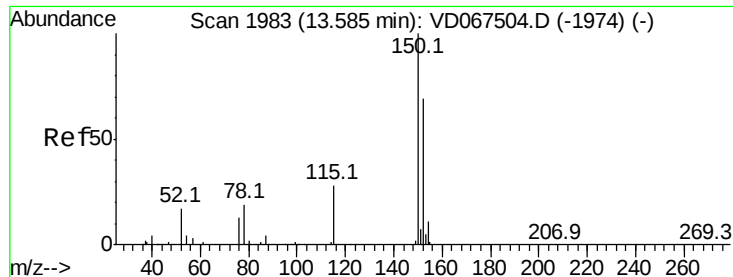
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

Instrument :

MSVOA_D

ClientSampleId :

R-LA-33-4-WC

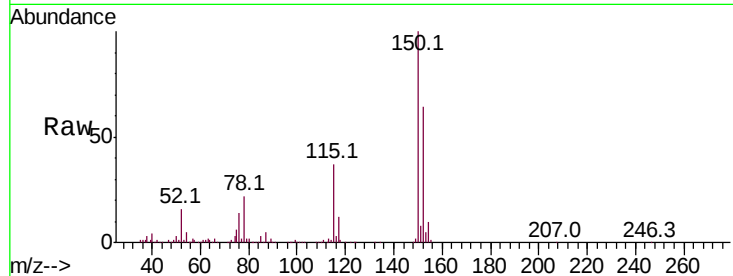
Tot Ion:152 Resp: 271521

Ion Ratio Lower Upper

152 100

115 58.3 29.3 88.0

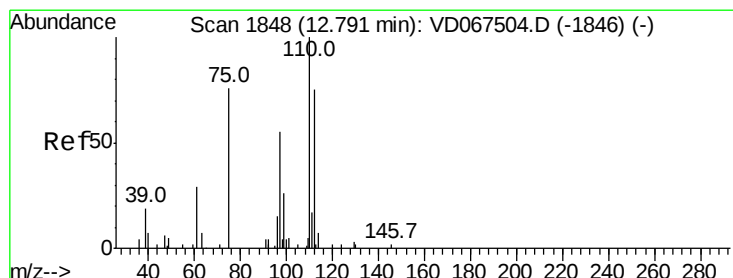
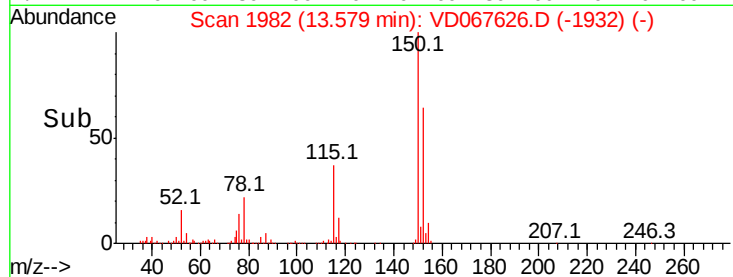
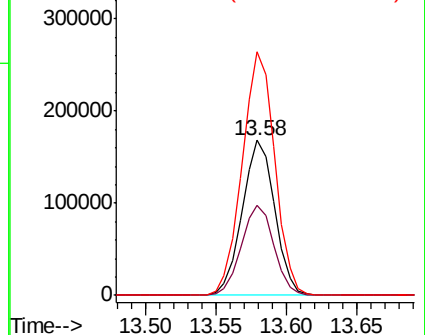
150 157.4 0.0 338.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 74.045 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067626.D

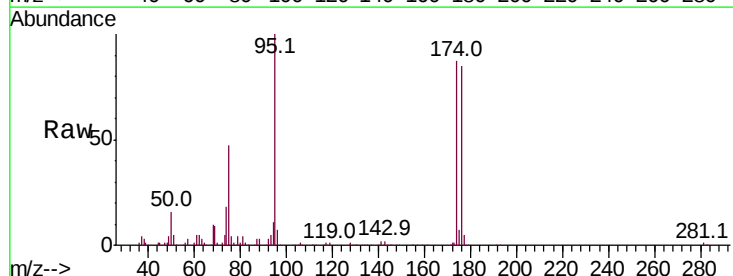
Acq: 12 Nov 2020 16:35

Tgt Ion: 75 Resp: 121283

Ion Ratio Lower Upper

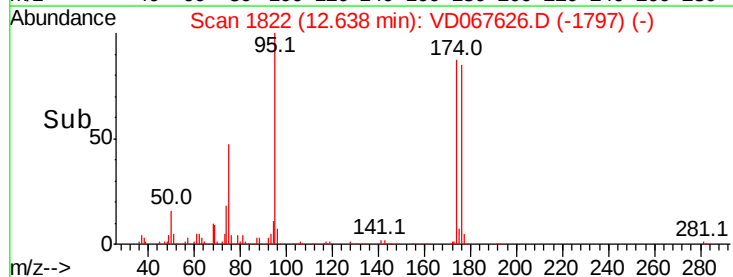
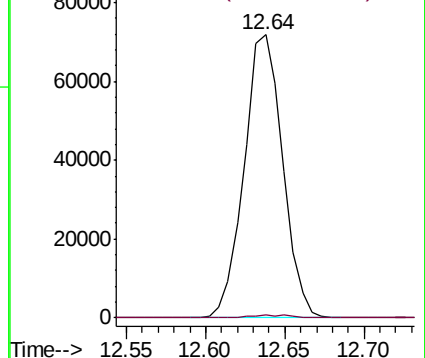
75 100

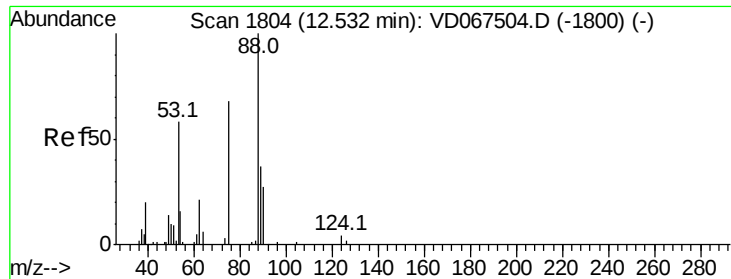
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 150.330 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067626.D

Acq: 12 Nov 2020 16:35

Instrument :

MSVOA_D

ClientSampleId :

R-LA-33-4-WC

Tot Ion: 75 Resp: 121283

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

89 0.0 44.6 67.0#

