

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\
 Data File : VD067038.D
 Acq On : 02 Oct 2020 16:26
 Operator : VA/SY
 Sample : L4213-10
 Misc : 5.02G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-17(5-7)

Quant Time: Oct 03 04:49:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	480936	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	803074	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	734283	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	334439	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	238675	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
35) Dibromofluoromethane	7.91	113	262149	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
50) Toluene-d8	10.34	98	946835	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.63	95	328036	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	

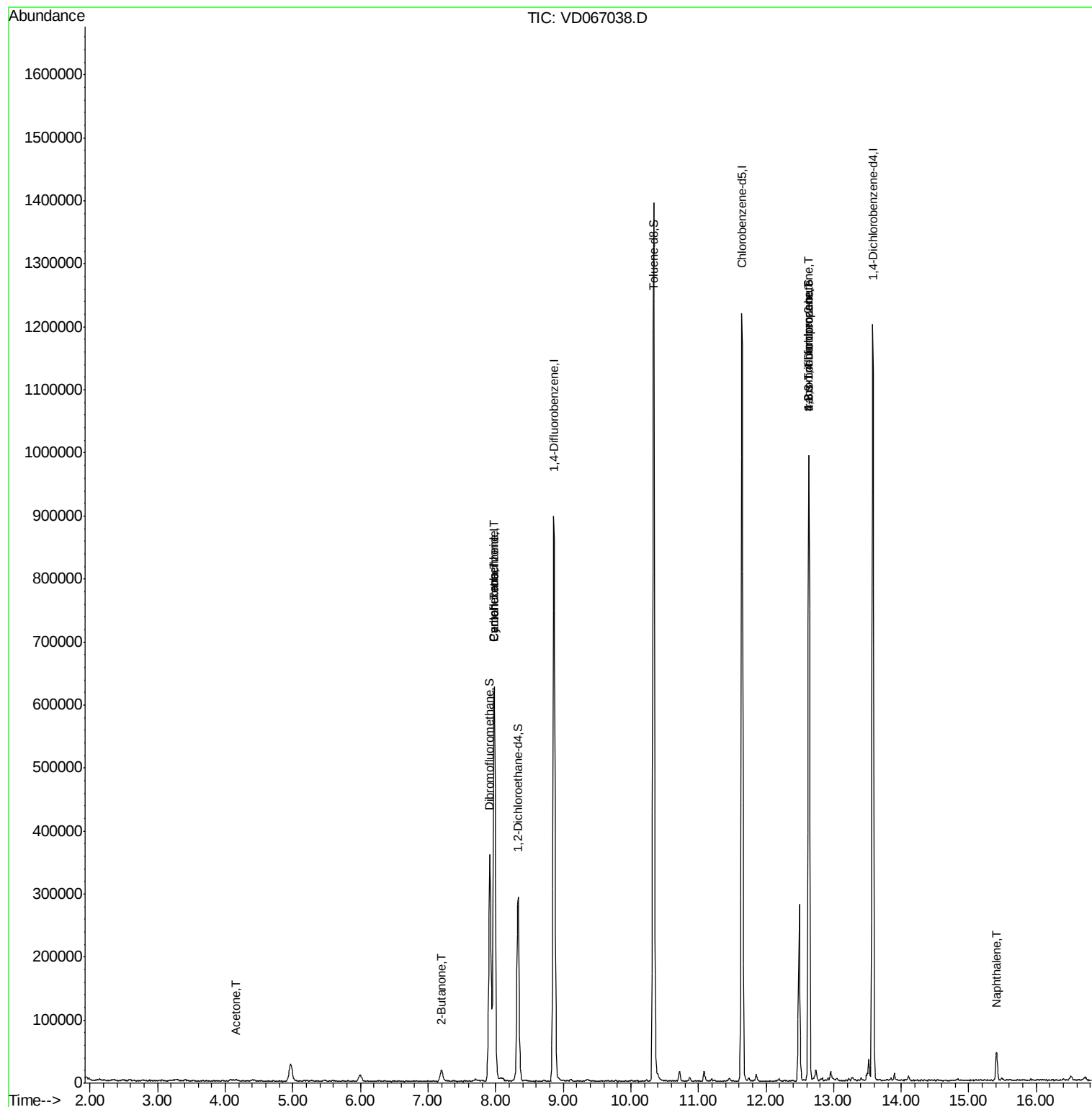
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.98	85	1675	Below Cal	#	66
5) Bromomethane	2.78	94	593	Below Cal		86
11) Tert butyl alcohol	5.23	59	65	Below Cal	#	72
16) Acetone	4.16	43	2648	3.745	ug/l #	86
20) Methylene Chloride	4.97	84	23145	Below Cal		99
25) 2-Butanone	7.20	43	1292	1.289	ug/l #	46
26) 2,2-Dichloropropane	7.21	77	1495	Below Cal	#	74
31) Cyclohexane	7.98	56	10176	1.463	ug/l #	1
38) Carbon Tetrachloride	7.98	117	48228	5.955	ug/l #	14
76) 1,2,3-Trichloropropane	12.63	75	164720	56.545	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	164720	140.974	ug/l #	12
95) Naphthalene	15.41	128	40714	4.046	ug/l	97

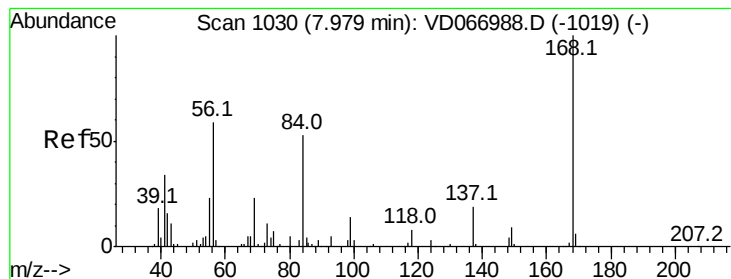
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100220\
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B-17(5-7)

Quant Time: Oct 03 04:49:03 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 15:19:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067038.D

Acq: 02 Oct 2020 16:26

Instrument :

MSVOA_D

ClientSampleId :

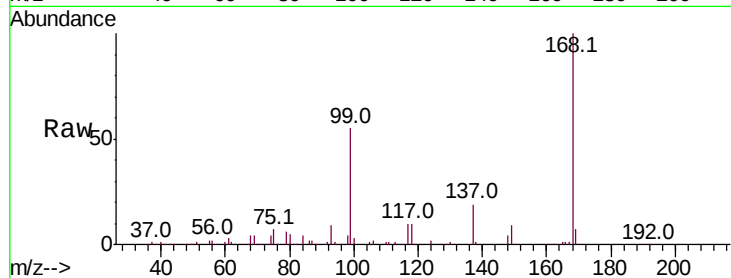
B-17(5-7)

Tot Ion:168 Resp: 480936

Ion Ratio Lower Upper

168 100

99 54.9 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

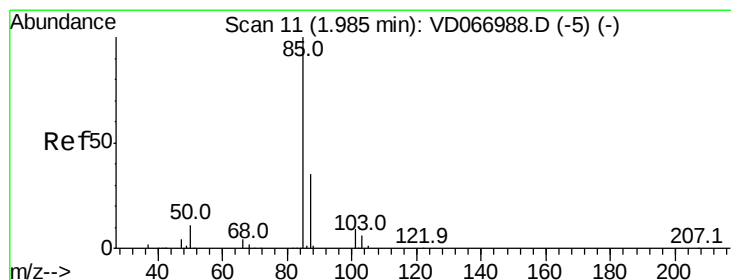
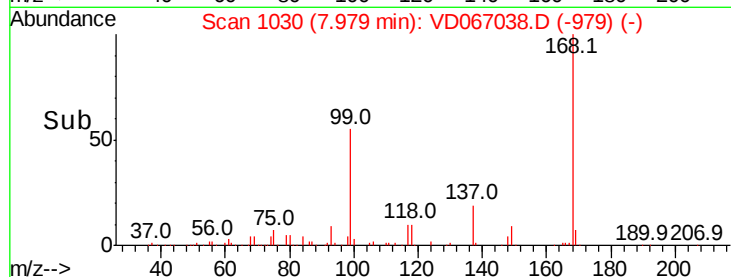
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.98 min Scan# 10

Delta R.T. -0.01 min

Lab File: VD067038.D

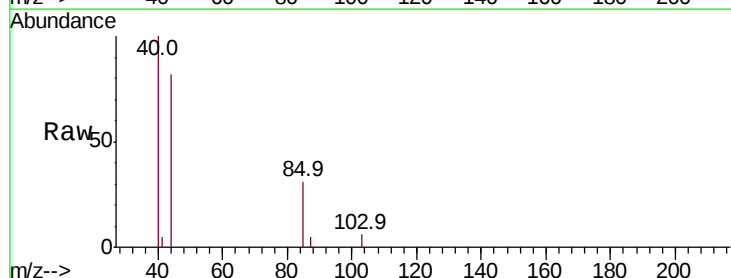
Acq: 02 Oct 2020 16:26

Tgt Ion: 85 Resp: 1675

Ion Ratio Lower Upper

85 100

87 14.8 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.98

1200

1000

800

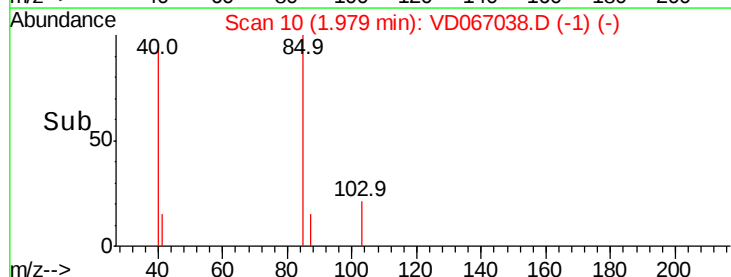
600

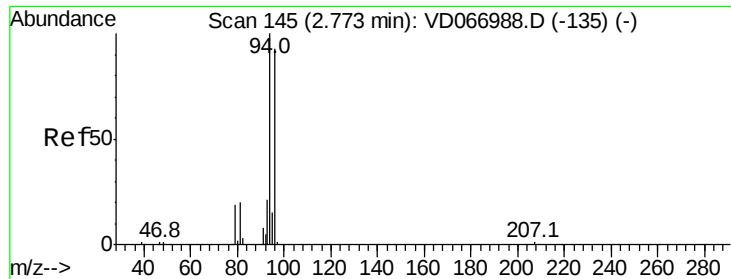
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067038.D

Acq: 02 Oct 2020 16:26

Instrument :

MSVOA_D

ClientSampleId :

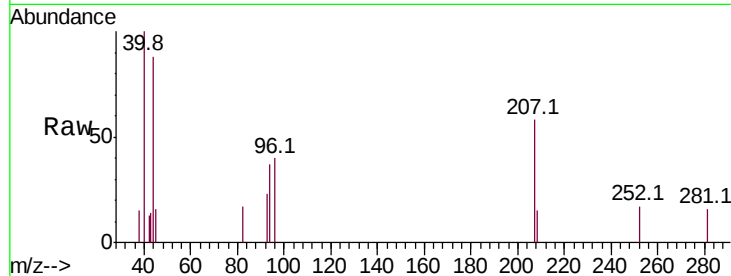
B-17(5-7)

Tot Ion: 94 Resp: 593

Ion Ratio Lower Upper

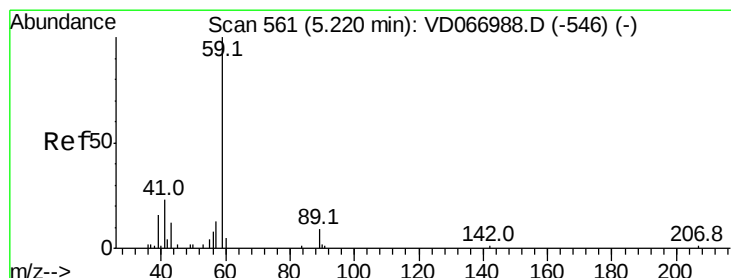
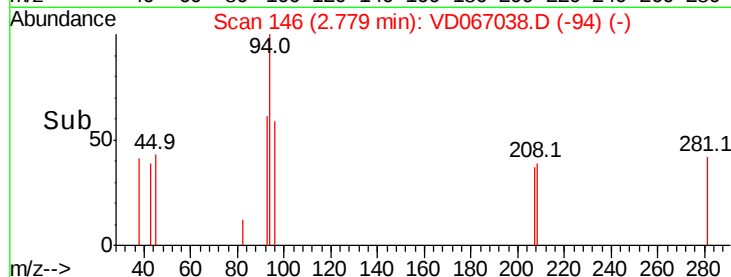
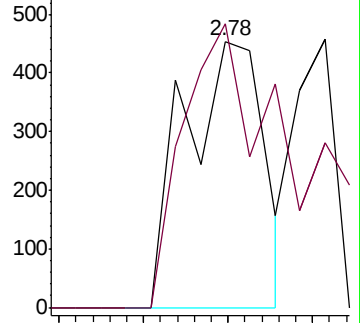
94 100

96 106.4 74.6 112.0



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: 5.23 min Scan# 563

Delta R.T. 0.01 min

Lab File: VD067038.D

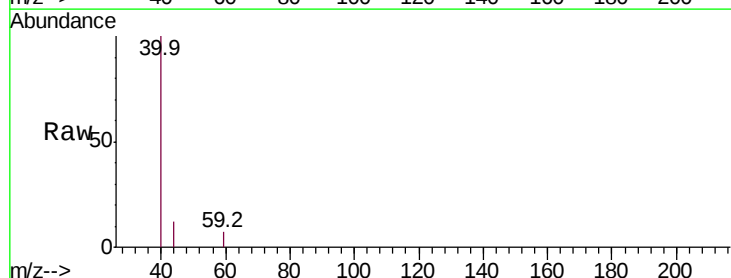
Acq: 02 Oct 2020 16:26

Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

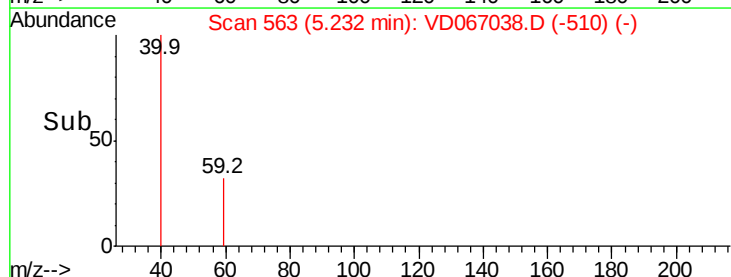
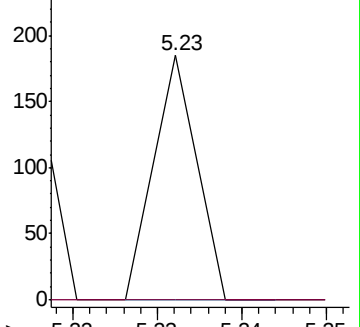
59 100

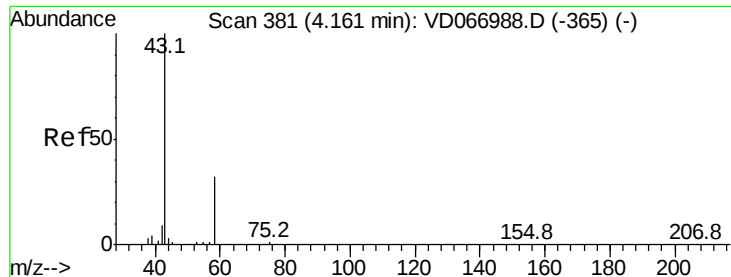
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 3.745 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067038.D

Acq: 02 Oct 2020 16:26

Instrument :

MSVOA_D

ClientSampleId :

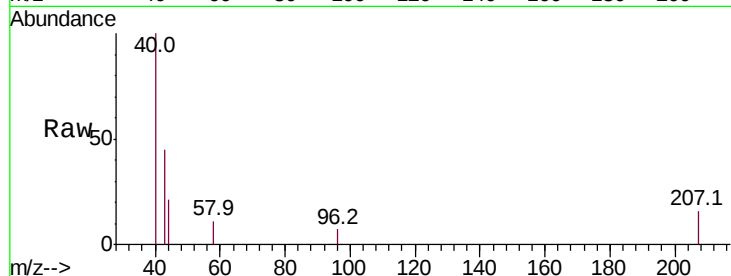
B-17(5-7)

Tot Ion: 43 Resp: 2648

Ion Ratio Lower Upper

43 100

58 24.6 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

1200

1000

800

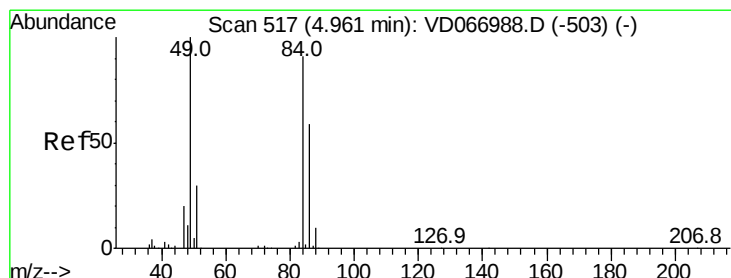
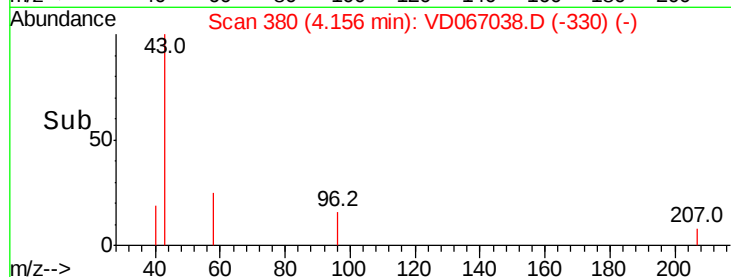
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067038.D

Acq: 02 Oct 2020 16:26

Tgt Ion: 84 Resp: 23145

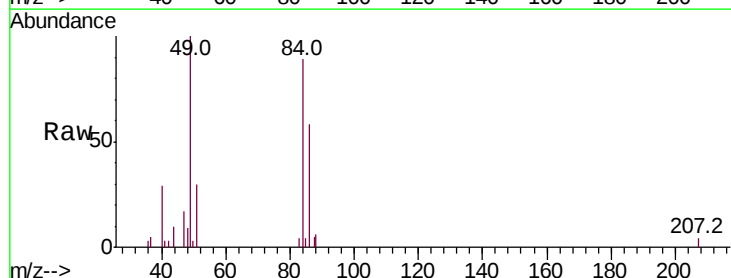
Ion Ratio Lower Upper

84 100

49 112.4 88.2 132.2

51 33.2 26.6 39.8

86 65.2 52.1 78.1



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

12000

10000

8000

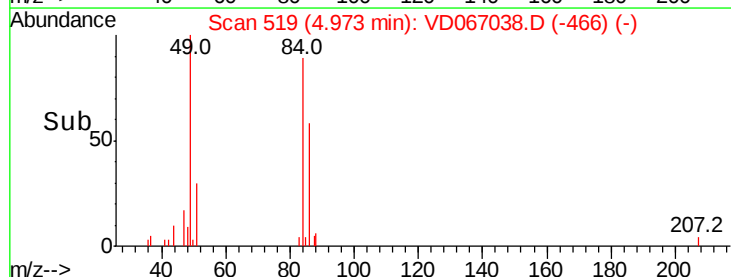
6000

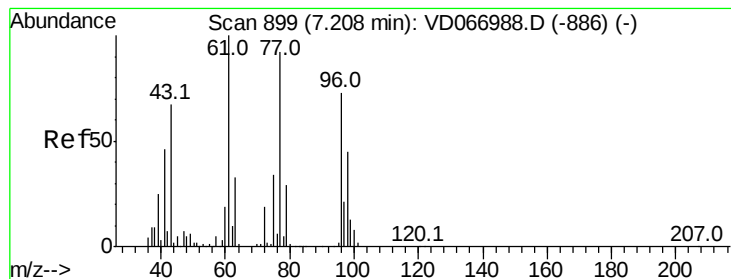
4000

2000

0

Time-->





#25

2-Butanone

Concen: 1.289 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD067038.D

Acq: 02 Oct 2020 16:26

Instrument :

MSVOA_D

ClientSampleId :

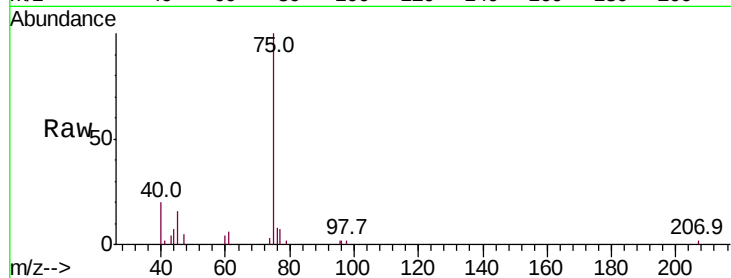
B-17(5-7)

Tot Ion: 43 Resp: 1292

Ion Ratio Lower Upper

43 100

72 0.0 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.20

400

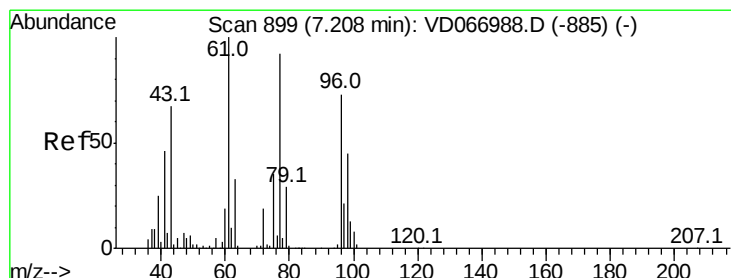
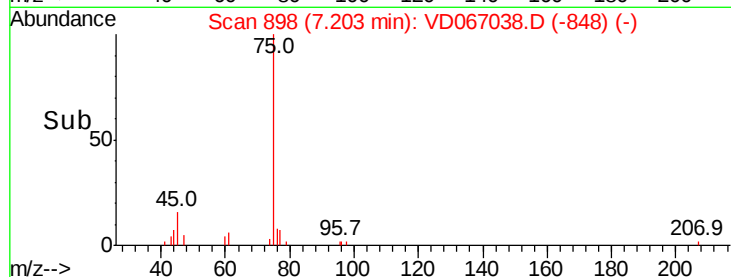
300

200

100

0

Time--> 7.10 7.15 7.20 7.25



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD067038.D

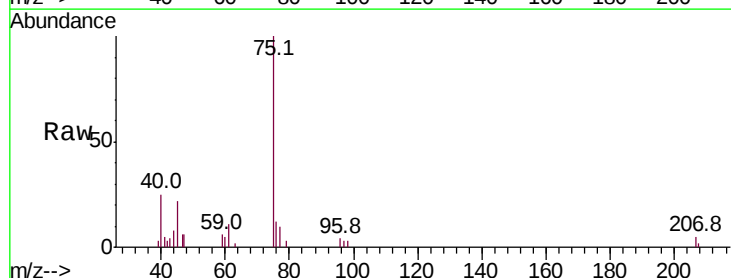
Acq: 02 Oct 2020 16:26

Tgt Ion: 77 Resp: 1495

Ion Ratio Lower Upper

77 100

97 10.2 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

7.21

800

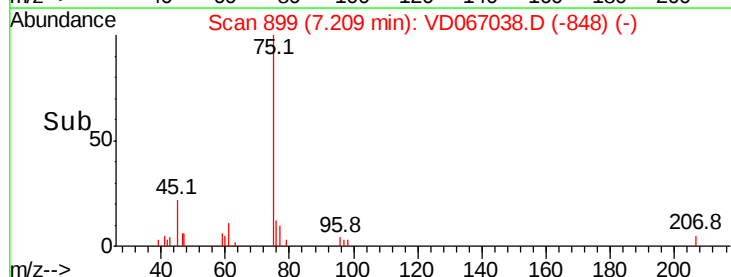
600

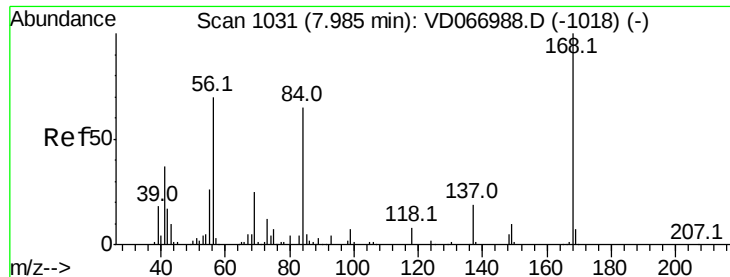
400

200

0

Time--> 7.20 7.25

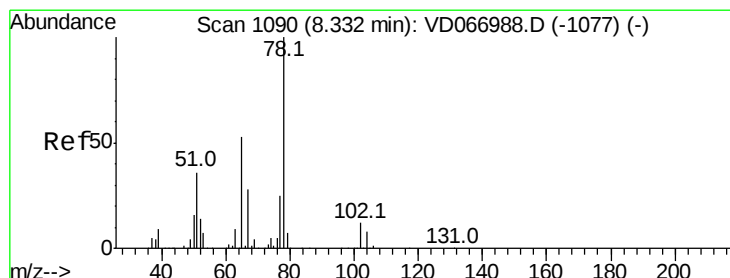
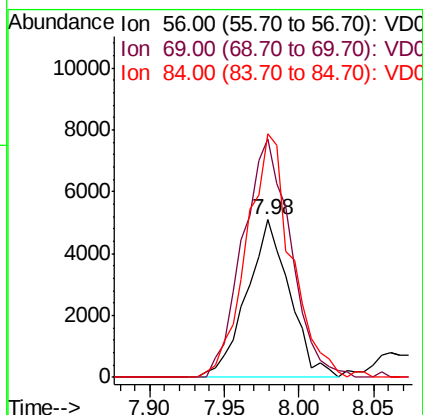
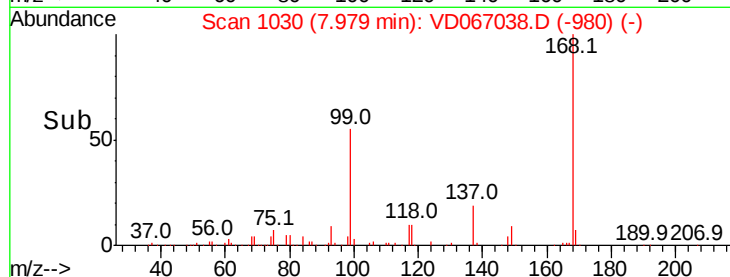
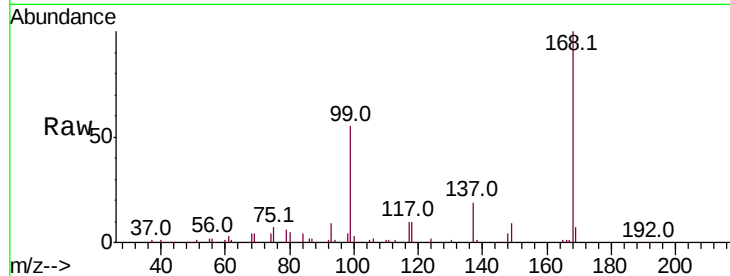




#31
Cyclohexane
Concen: 1.463 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067038.D
Acq: 02 Oct 2020 16:26

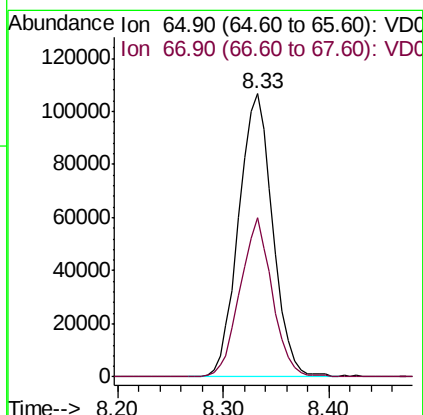
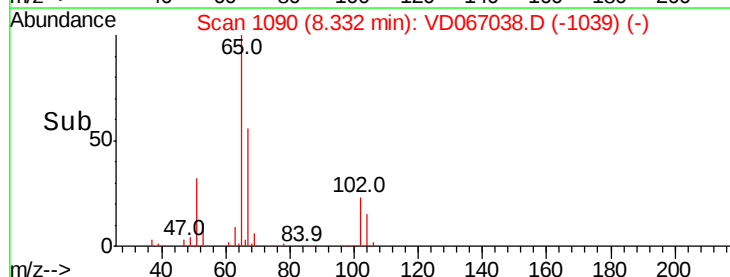
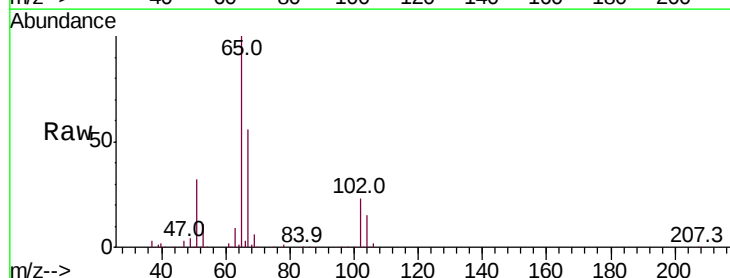
Instrument :
MSVOA_D
ClientSampled :
B-17(5-7)

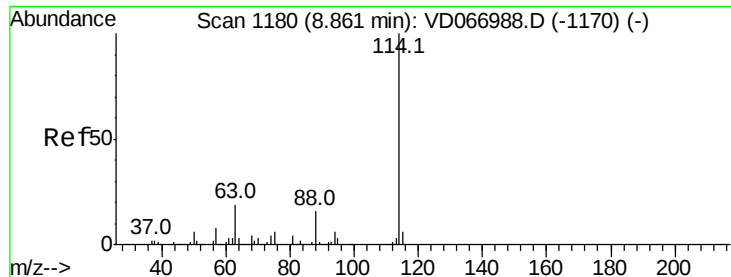
Tot Ion: 56 Resp: 10176
Ion Ratio Lower Upper
56 100
69 151.7 29.0 43.6#
84 154.6 74.2 111.2#



#33
1,2-Dichloroethane-d4
Concen: 51.523 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD067038.D
Acq: 02 Oct 2020 16:26

Tgt Ion: 65 Resp: 238675
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.8

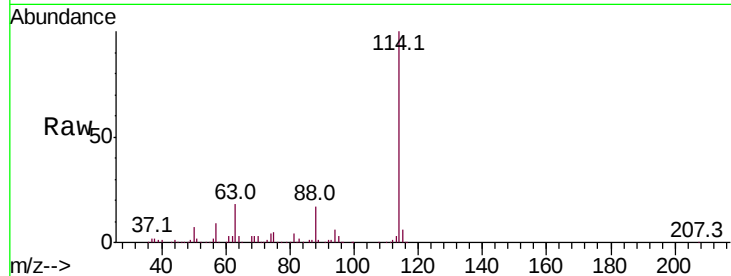




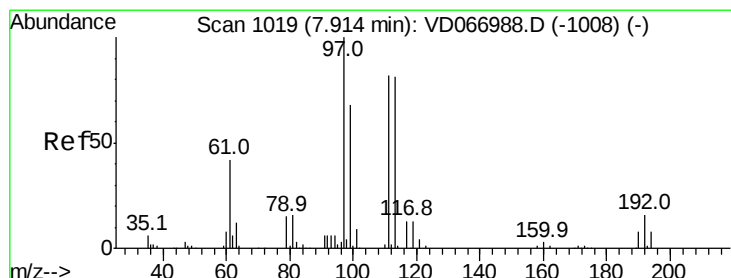
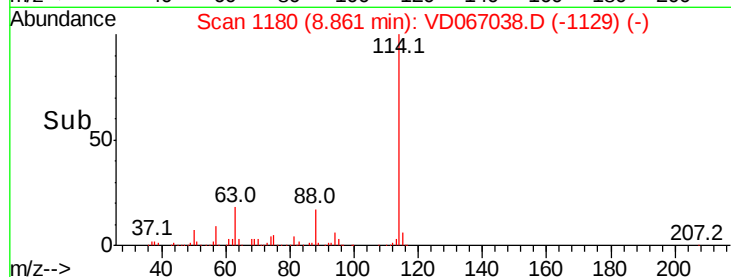
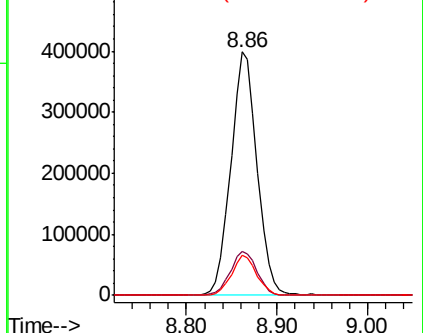
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.86 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VD067038.D
Acq: 02 Oct 2020 16:26

Instrument :
MSVOA_D
ClientSampleId :
B-17(5-7)

Tot Ion:114 Resp: 803074
Ion Ratio Lower Upper
114 100
63 18.0 0.0 38.4
88 16.7 0.0 31.2

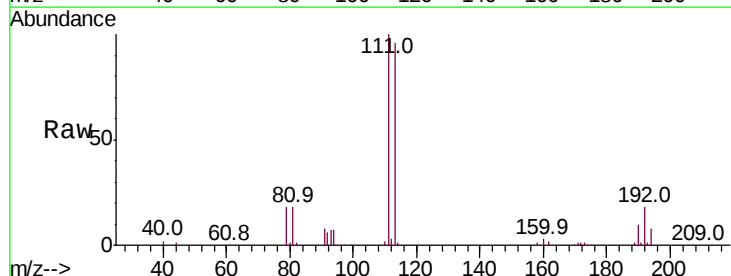


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

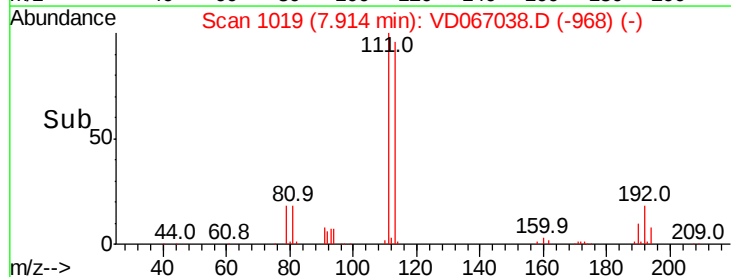
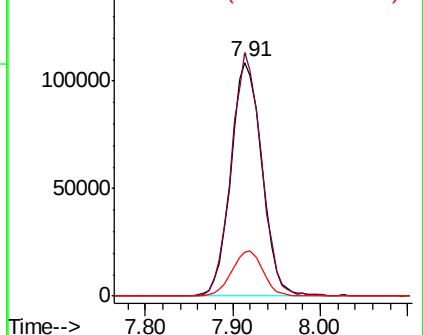


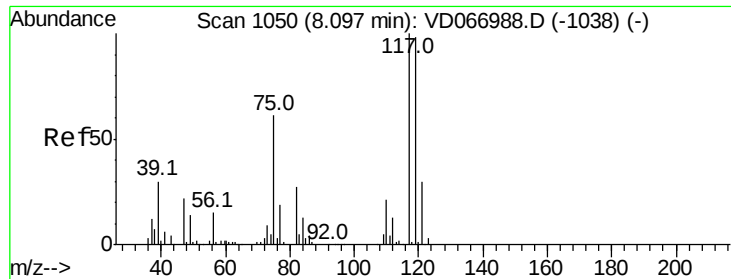
#35
Dibromofluoromethane
Concen: 49.861 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VD067038.D
Acq: 02 Oct 2020 16:26

Tgt Ion:113 Resp: 262149
Ion Ratio Lower Upper
113 100
111 101.3 83.0 124.4
192 19.3 15.5 23.3



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





#38

Carbon Tetrachloride

Concen: 5.955 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067038.D

Acq: 02 Oct 2020 16:26

Instrument :

MSVOA_D

ClientSampleId :

B-17(5-7)

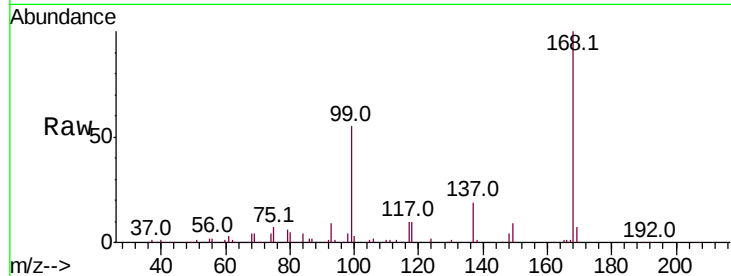
Tot Ion:117 Resp: 48228

Ion Ratio Lower Upper

117 100

119 3.4 78.7 118.1#

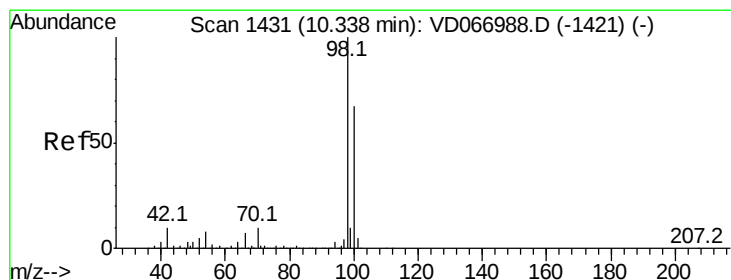
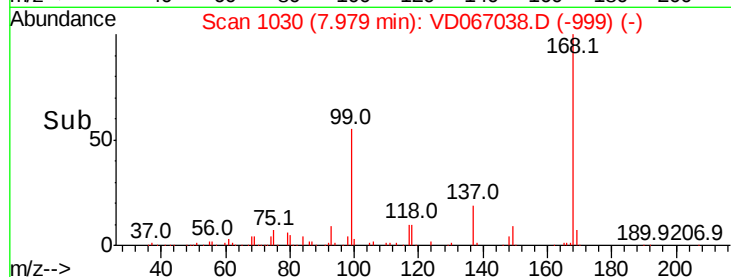
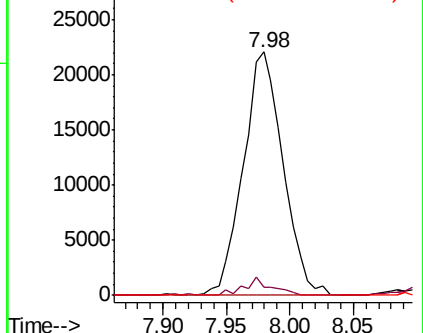
121 0.0 24.2 36.2#



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: 49.423 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067038.D

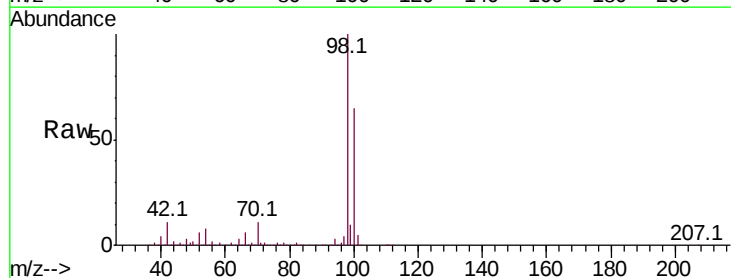
Acq: 02 Oct 2020 16:26

Tgt Ion: 98 Resp: 946835

Ion Ratio Lower Upper

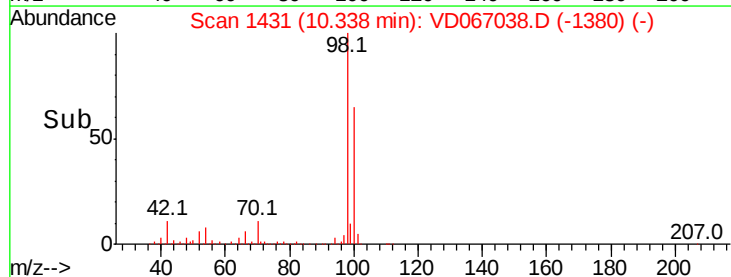
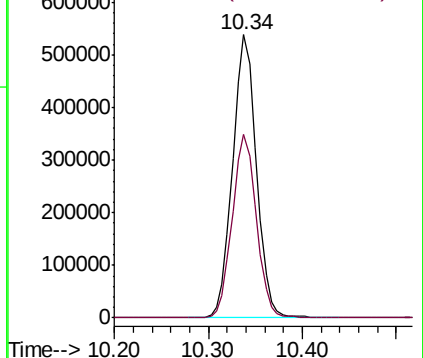
98 100

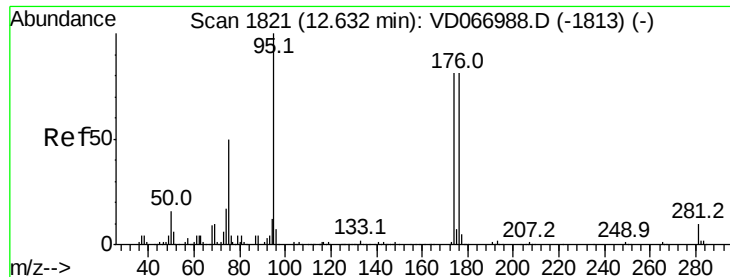
100 65.9 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

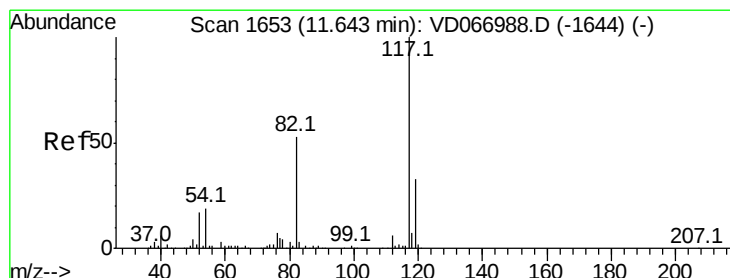
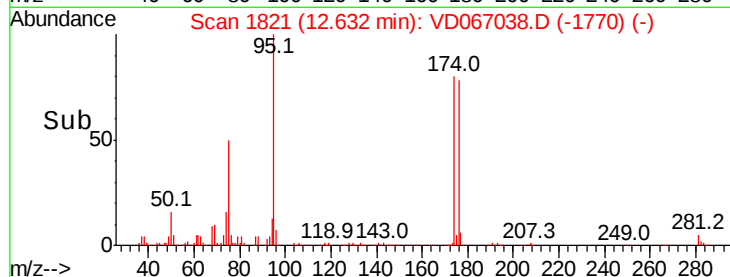
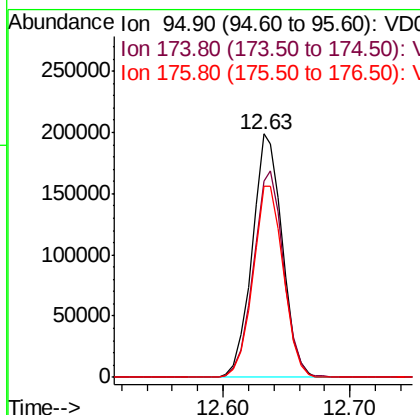
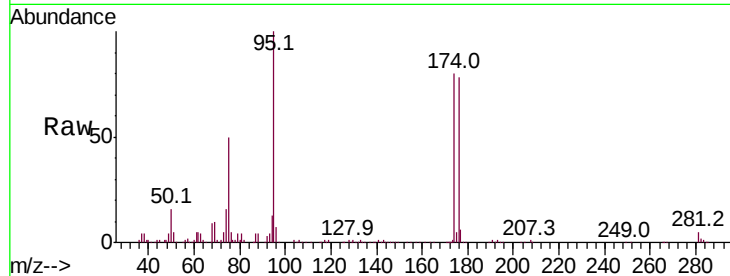




#62
4-Bromofluorobenzene
Concen: 50.439 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD067038.D
Acq: 02 Oct 2020 16:26

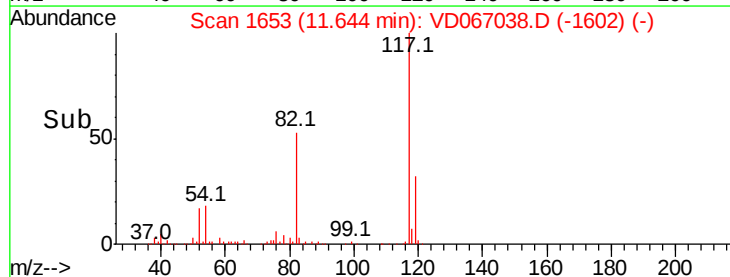
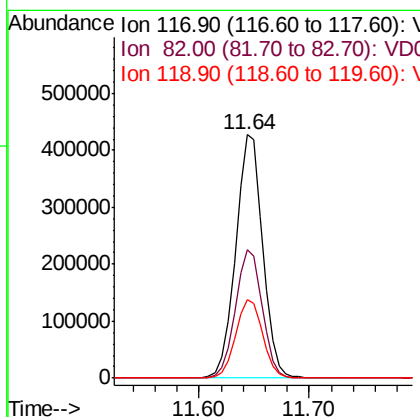
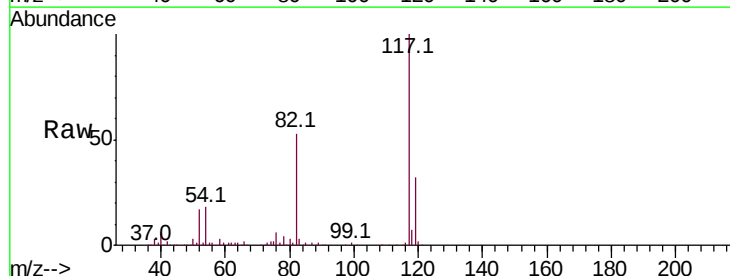
Instrument :
MSVOA_D
ClientSampleId :
B-17(5-7)

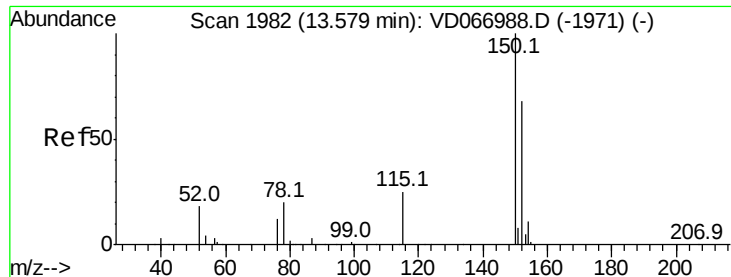
Tot Ion	Ratio	Lower	Upper
95	100		
174	84.9	0.0	167.6
176	79.8	0.0	162.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067038.D
Acq: 02 Oct 2020 16:26

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.6	63.8
119	32.1	26.3	39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067038.D

Acq: 02 Oct 2020 16:26

Instrument :

MSVOA_D

ClientSampleId :

B-17(5-7)

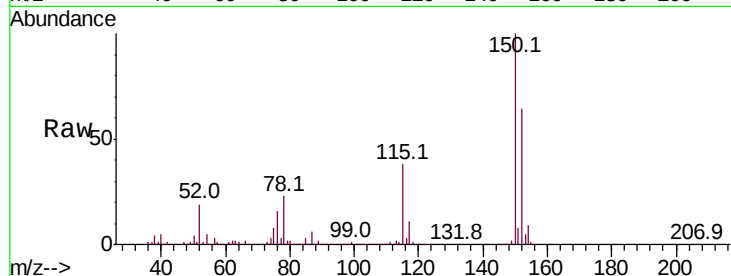
Tot Ion:152 Resp: 334439

Ion Ratio Lower Upper

152 100

115 59.0 29.6 88.8

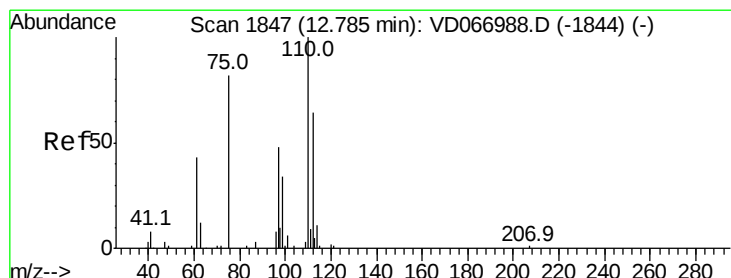
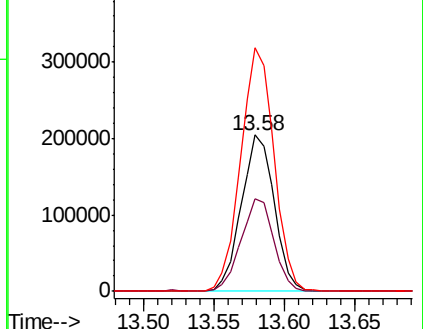
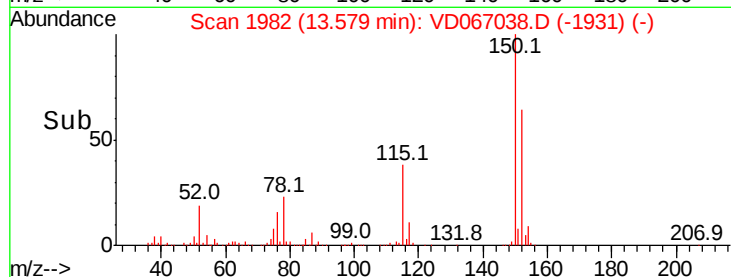
150 157.1 0.0 344.8



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: 56.545 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067038.D

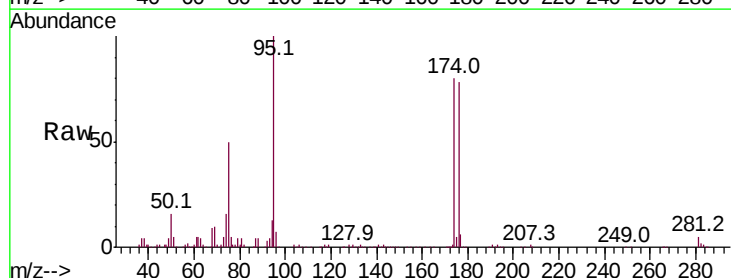
Acq: 02 Oct 2020 16:26

Tgt Ion: 75 Resp: 164720

Ion Ratio Lower Upper

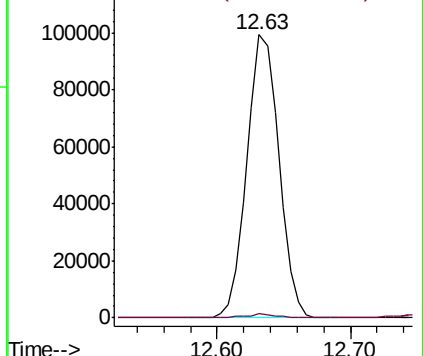
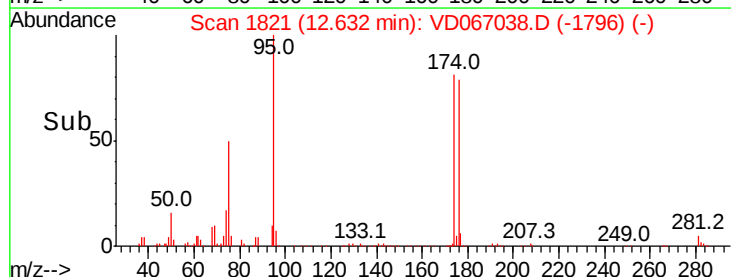
75 100

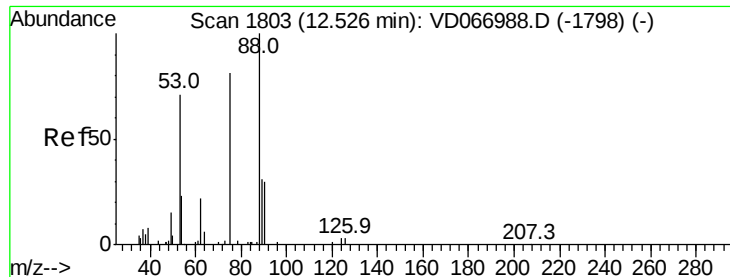
77 1.3 0.0 0.0#



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: 140.974 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067038.D

Acq: 02 Oct 2020 16:26

Instrument :

MSVOA_D

ClientSampled :

B-17(5-7)

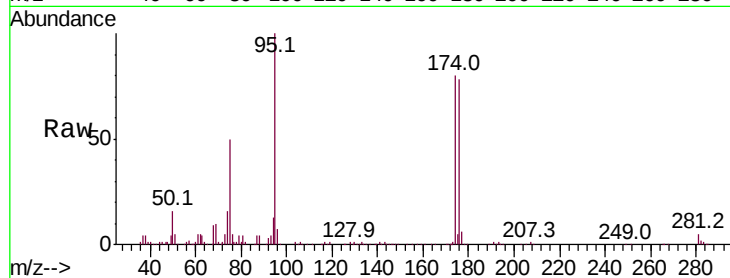
Tot Ion: 75 Resp: 164720

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

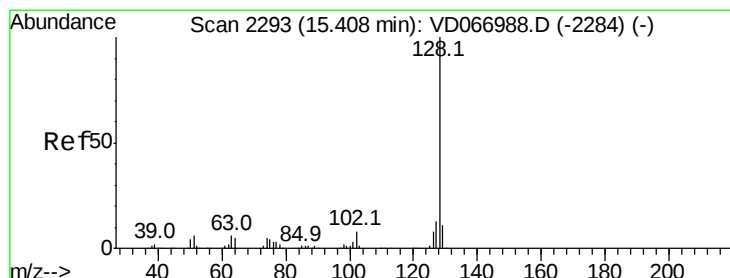
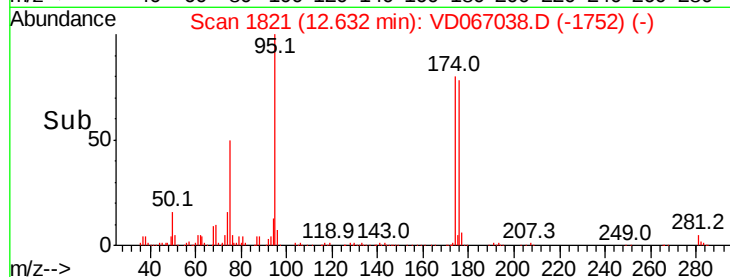
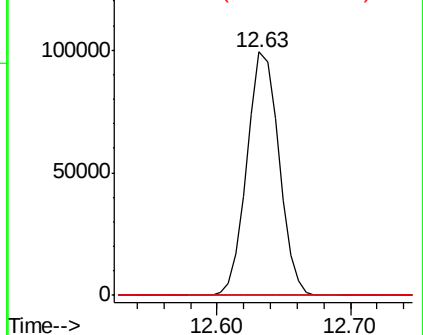
89 0.0 38.9 58.3#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#95

Naphthalene

Concen: 4.046 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD067038.D

Acq: 02 Oct 2020 16:26

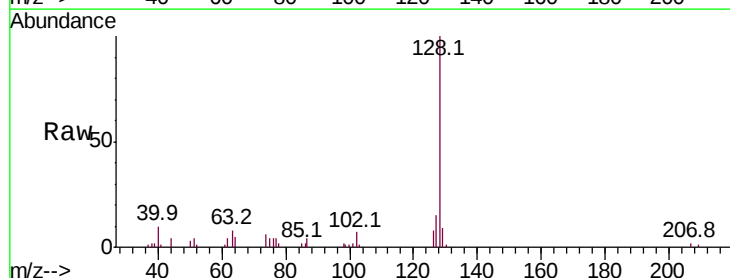
Tgt Ion:128 Resp: 40714

Ion Ratio Lower Upper

128 100

127 14.9 10.3 15.5

129 10.9 8.6 13.0



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

