

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100920\
 Data File : VD067221.D
 Acq On : 09 Oct 2020 19:35
 Operator : VA/SY
 Sample : L4318-01
 Misc : 5.06G/5.00ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 214

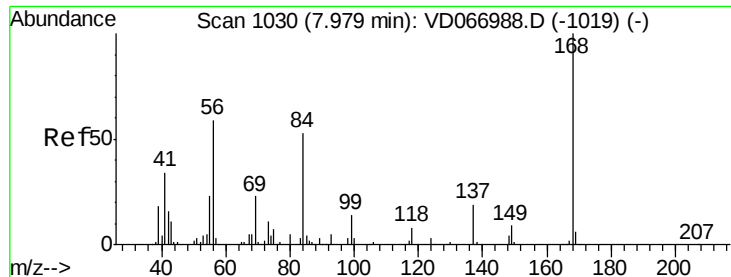
Quant Time: Oct 09 23:48:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	535542	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	870217	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	812176	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	376270	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	240492	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	
35) Dibromofluoromethane	7.92	113	273356	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
50) Toluene-d8	10.34	98	1019432	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	12.64	95	343347	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	256	Below Cal	#	40
5) Bromomethane	2.79	94	303	Below Cal	#	1
11) Tert butyl alcohol	5.24	59	81	Below Cal	#	72
16) Acetone	4.17	43	829	1.053	ug/l #	42
20) Methylene Chloride	4.97	84	6639	Below Cal	#	82
26) 2,2-Dichloropropane	7.19	77	762	Below Cal	#	53
31) Cyclohexane	7.98	56	9593	1.238	ug/l #	1
36) 1,1-Dichloropropene	7.99	75	38180	4.707	ug/l #	50
38) Carbon Tetrachloride	7.97	117	54487	6.208	ug/l #	14
51) 4-Methyl-2-Pentanone	10.34	43	4051	1.571	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	170044	51.883	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	170044	129.351	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD067221.D

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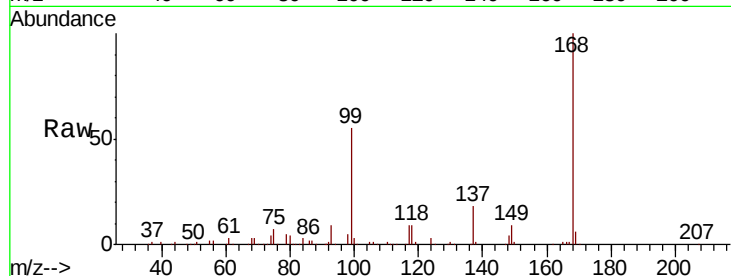
Instrument :
MSVOA_D
ClientSampleId :
214

Tot Ion:168 Resp: 53542

Ion Ratio Lower Upper

168 100

99 55.3 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.99

250000

200000

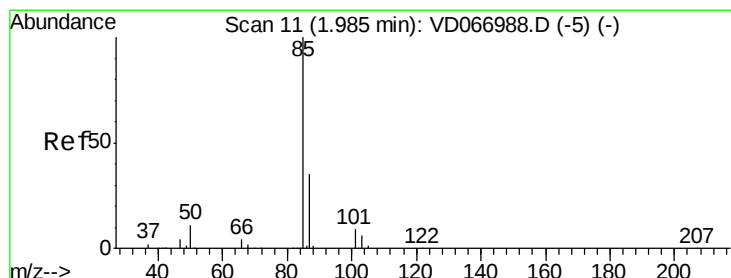
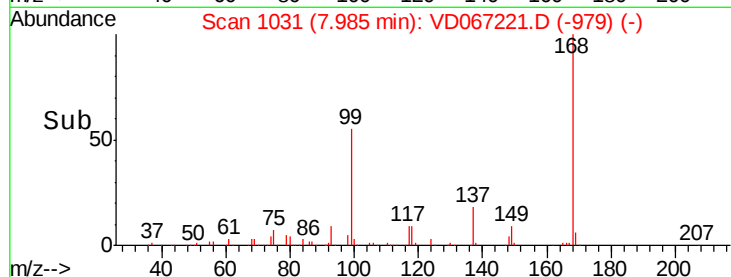
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067221.D

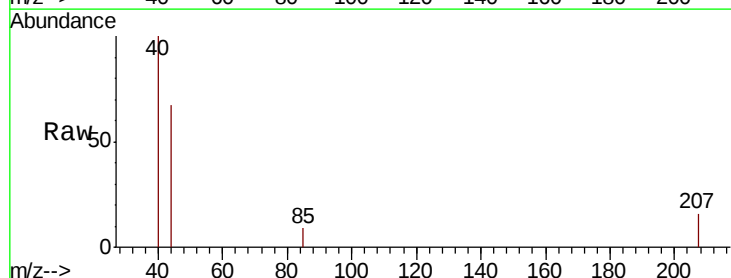
Acq: 09 Oct 2020 19:35

Tgt Ion: 85 Resp: 256

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): V

Ion 86.90 (86.60 to 87.60): V

1.99

300

250

200

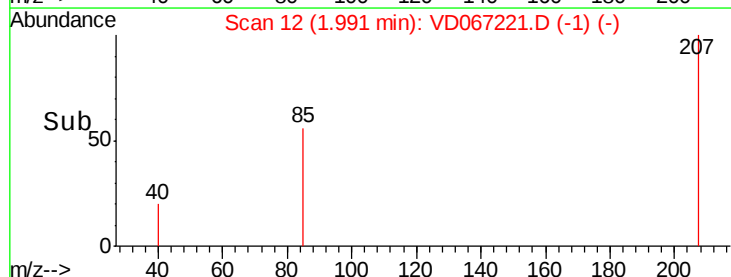
150

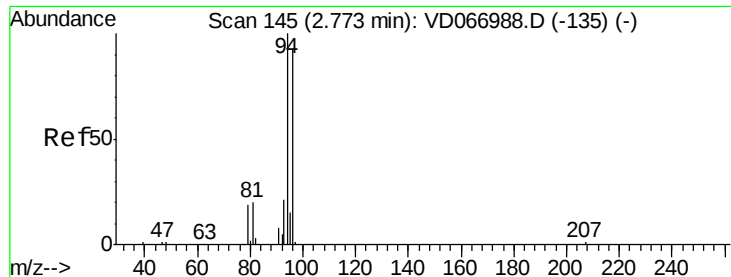
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067221.D

Acq: 09 Oct 2020 19:35

Instrument :

MSVOA_D

ClientSampleId :

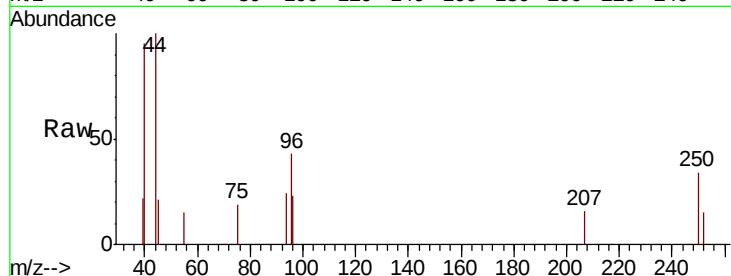
214

Tot Ion: 94 Resp: 303

Ion Ratio Lower Upper

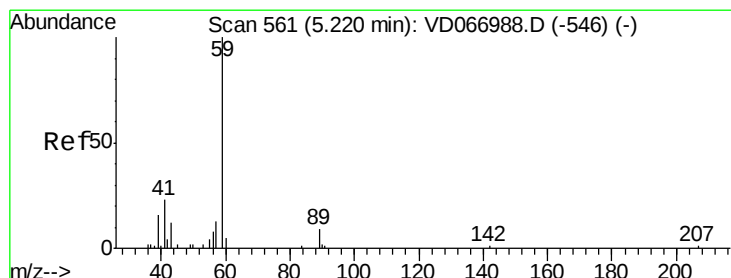
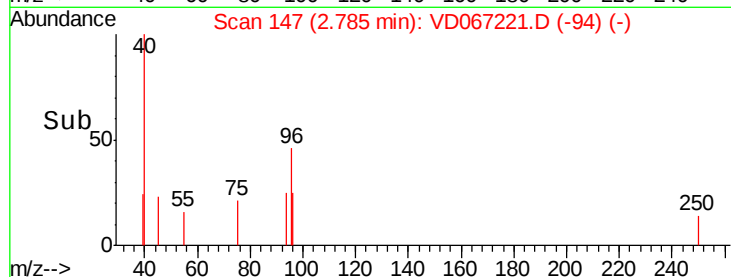
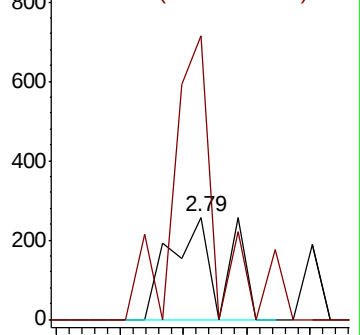
94 100

96 276.7 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: 5.24 min Scan# 565

Delta R.T. 0.02 min

Lab File: VD067221.D

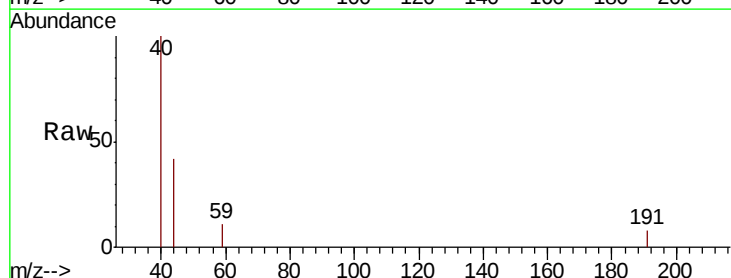
Acq: 09 Oct 2020 19:35

Tgt Ion: 59 Resp: 81

Ion Ratio Lower Upper

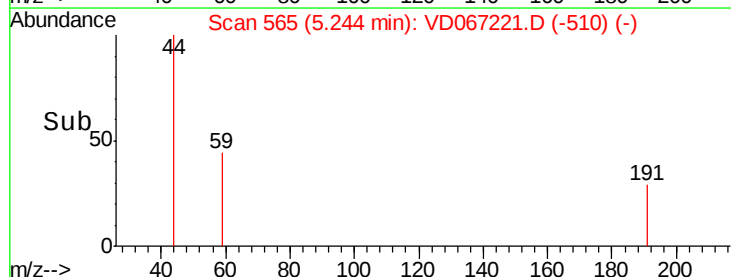
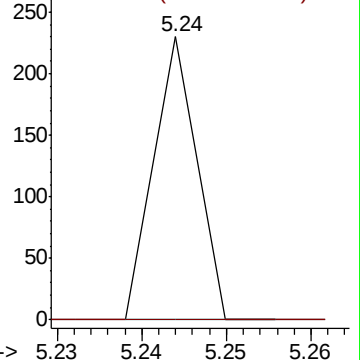
59 100

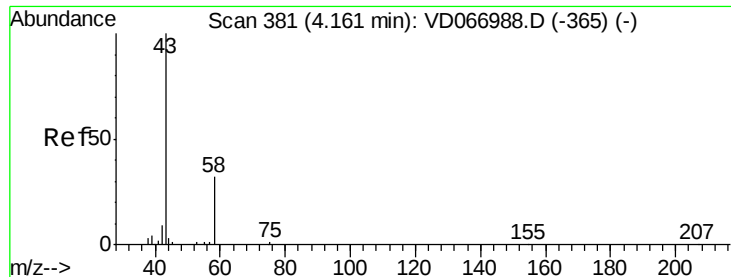
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 1.053 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD067221.D

Acq: 09 Oct 2020 19:35

Instrument :

MSVOA_D

ClientSampleId :

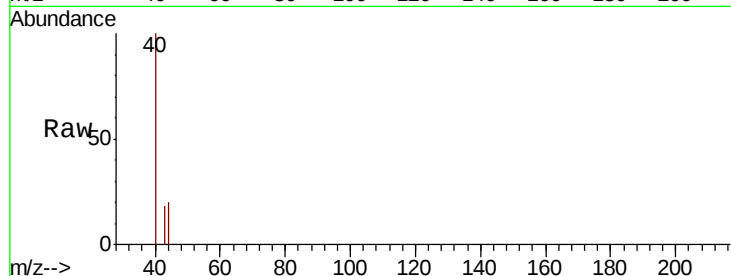
214

Tot Ion: 43 Resp: 829

Ion Ratio Lower Upper

43 100

58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

400

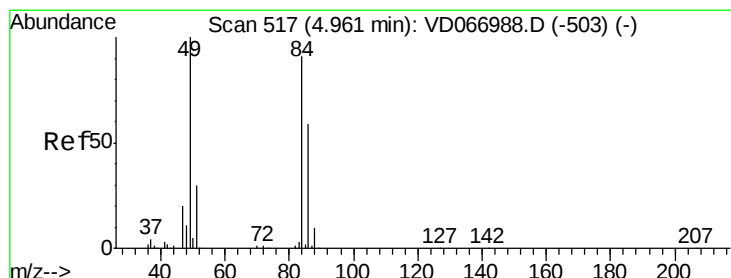
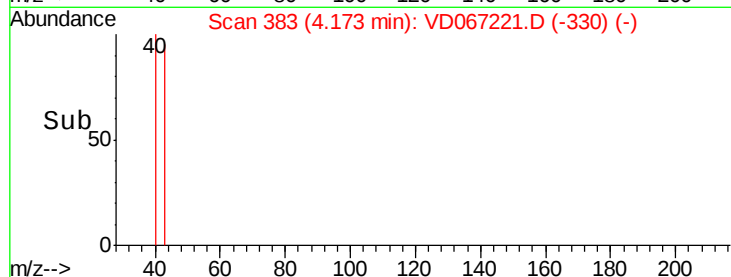
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067221.D

Acq: 09 Oct 2020 19:35

Tgt Ion: 84 Resp: 6639

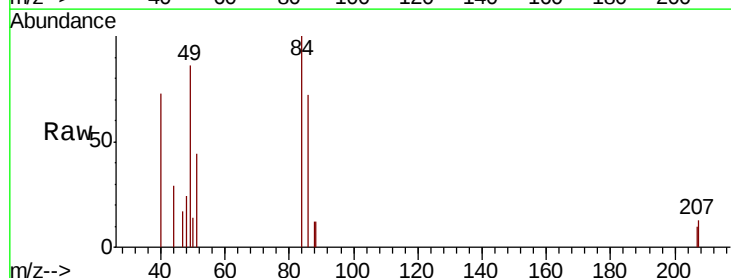
Ion Ratio Lower Upper

84 100

49 86.2 88.2 132.2#

51 44.5 26.6 39.8#

86 72.3 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

4.97

4000

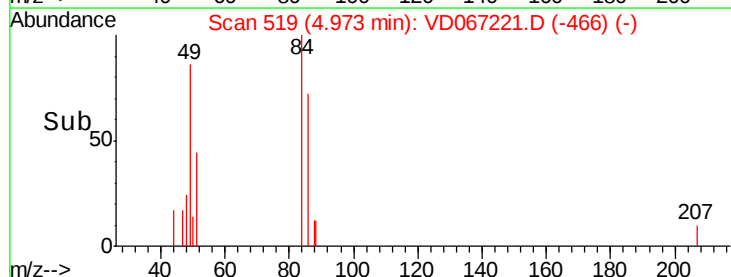
3000

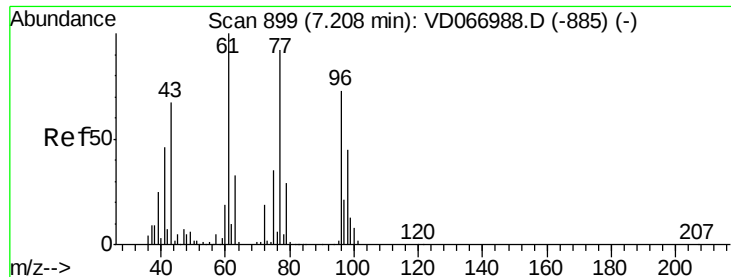
2000

1000

0

Time-->





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.19 min Scan# 895

Delta R.T. -0.02 min

Lab File: VD067221.D

Acq: 09 Oct 2020 19:35

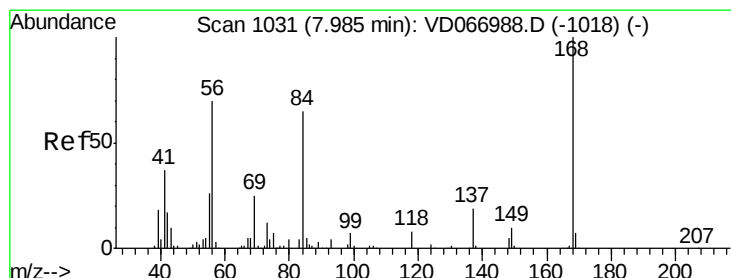
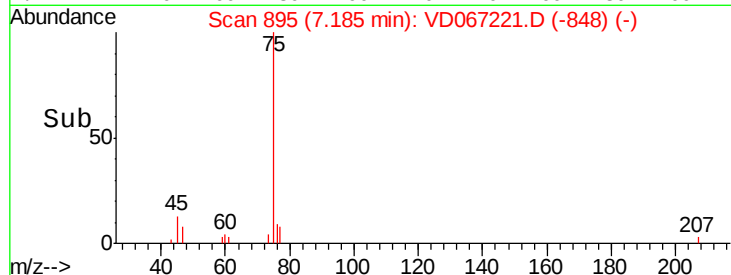
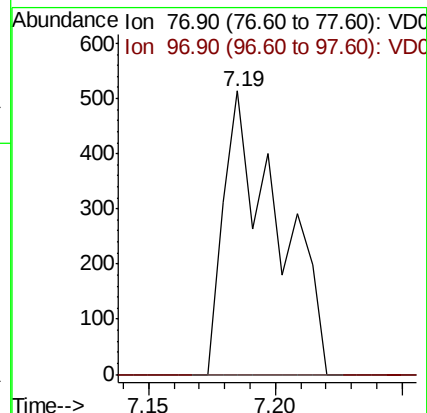
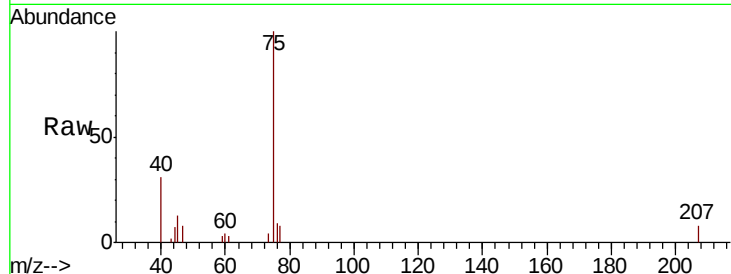
Instrument :
MSVOA_D
ClientSampleId :
214

Tot Ion: 77 Resp: 762

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



#31

Cyclohexane

Concen: 1.238 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067221.D

Acq: 09 Oct 2020 19:35

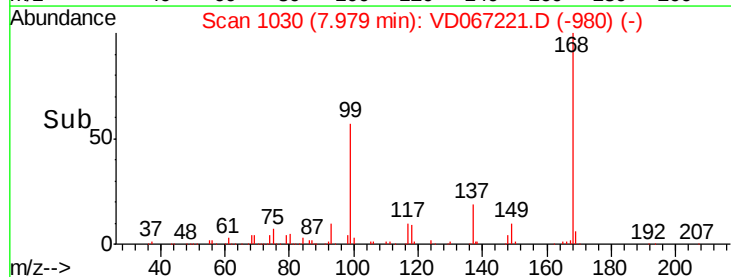
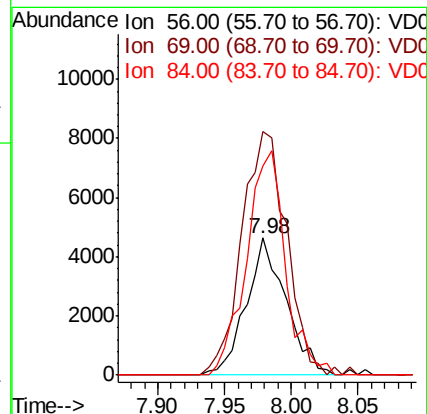
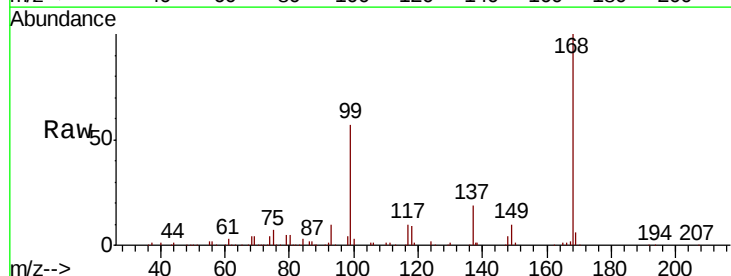
Tgt Ion: 56 Resp: 9593

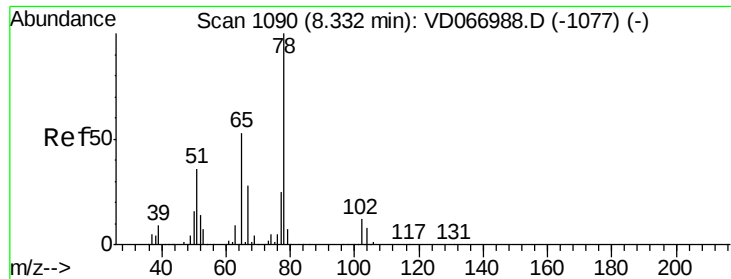
Ion Ratio Lower Upper

56 100

69 178.0 29.0 43.6#

84 152.9 74.2 111.2#

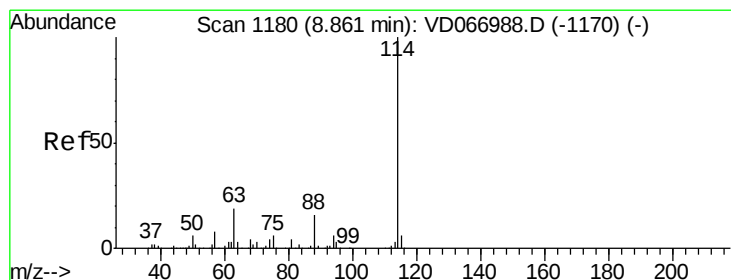
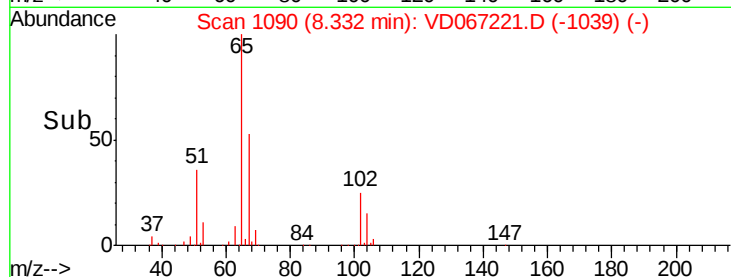
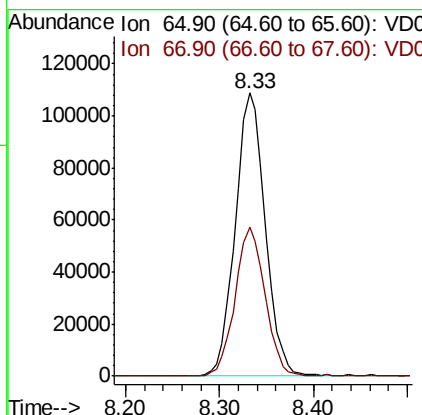
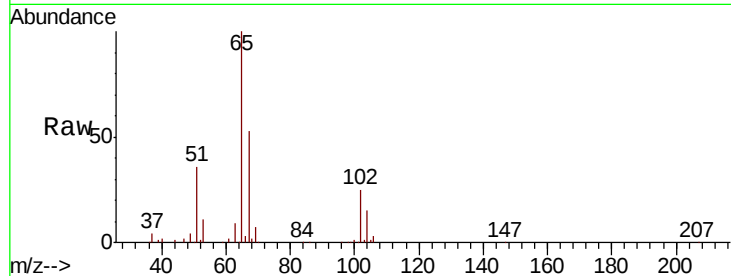




#33
 1,2-Dichloroethane-d4
 Concen: 46.622 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD067221.D
 Acq: 09 Oct 2020 19:35

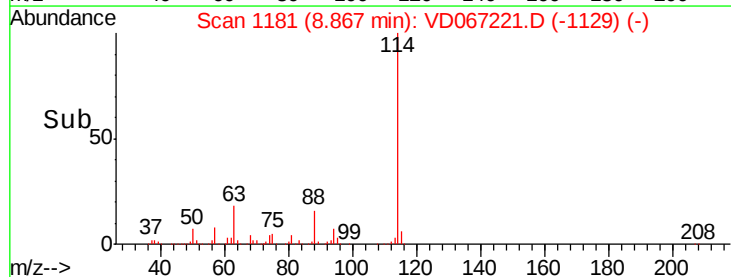
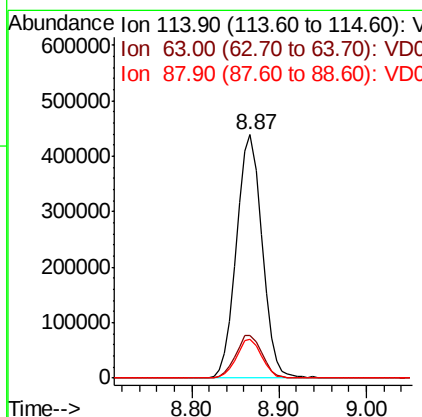
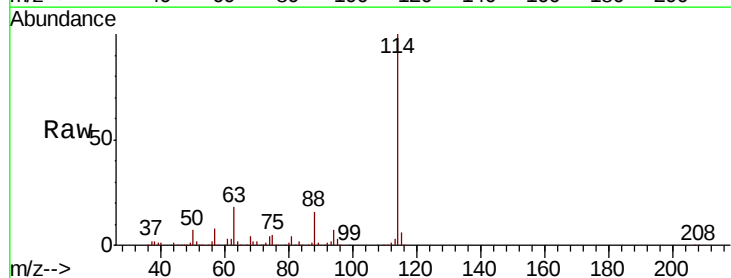
Instrument :
 MSVOA_D
 ClientSampleId :
 214

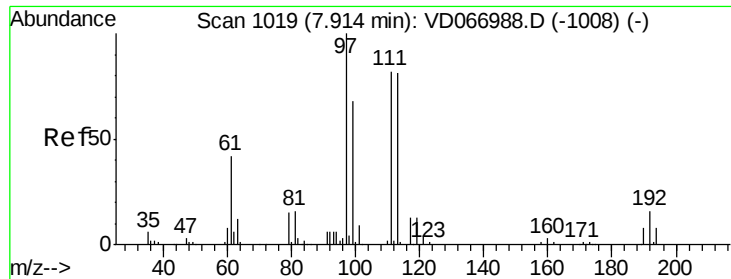
Tot Ion: 65 Resp: 240492
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.01 min
 Lab File: VD067221.D
 Acq: 09 Oct 2020 19:35

Tgt Ion: 114 Resp: 870217
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 38.4
 88 15.9 0.0 31.2

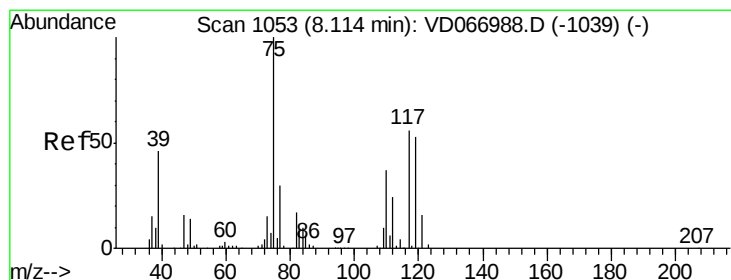
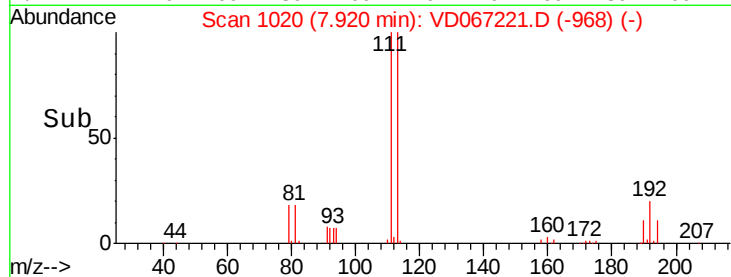
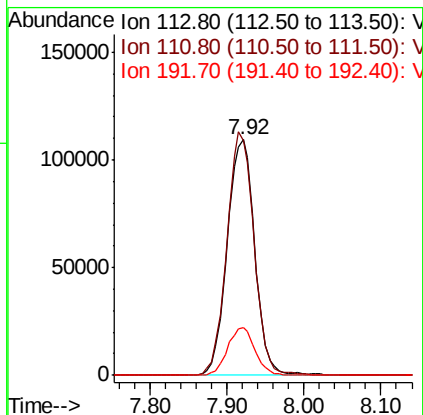
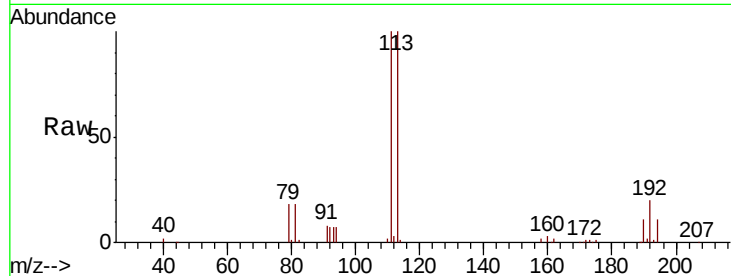




#35
 Dibromofluoromethane
 Concen: 47.981 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD067221.D
 Acq: 09 Oct 2020 19:35

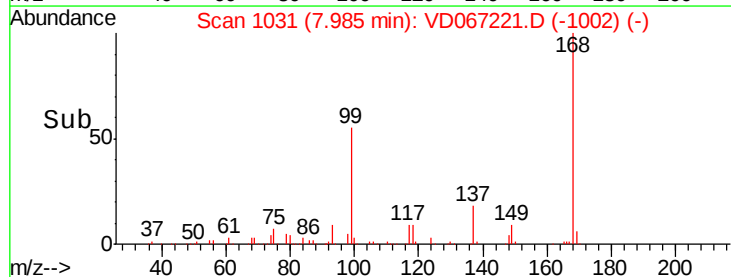
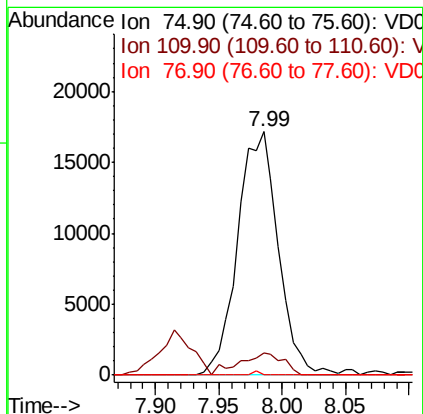
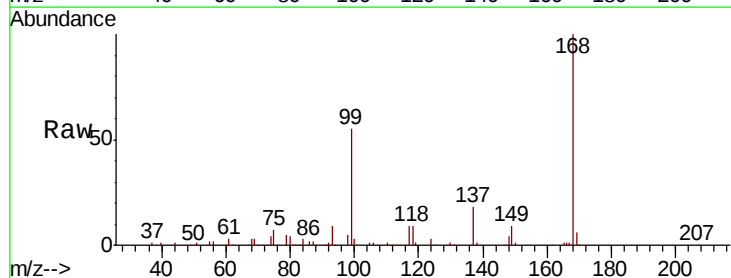
Instrument :
 MSVOA_D
 ClientSampled :
 214

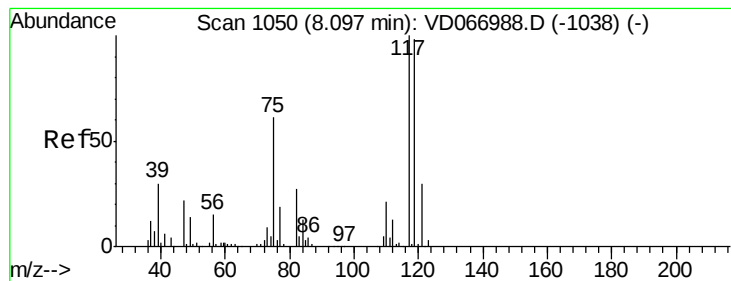
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.0	124.4
192	20.0	15.5	23.3



#36
 1,1-Dichloropropene
 Concen: 4.707 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD067221.D
 Acq: 09 Oct 2020 19:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.4	55.0#
77	0.3	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.208 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD067221.D

Acq: 09 Oct 2020 19:35

Instrument :

MSVOA_D

ClientSampleId :

214

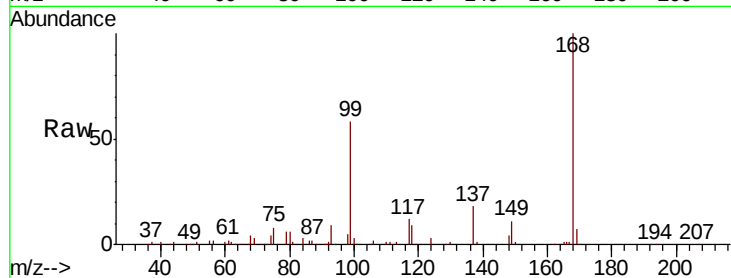
Tot Ion:117 Resp: 54487

Ion Ratio Lower Upper

117 100

119 3.4 78.7 118.1#

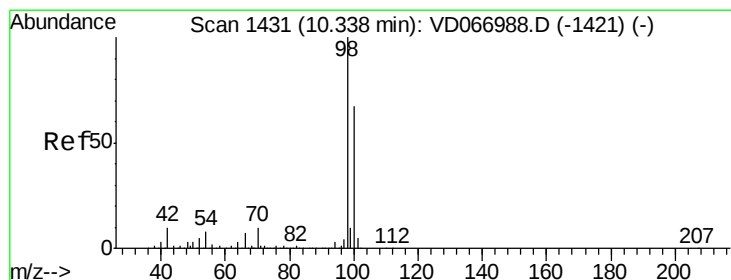
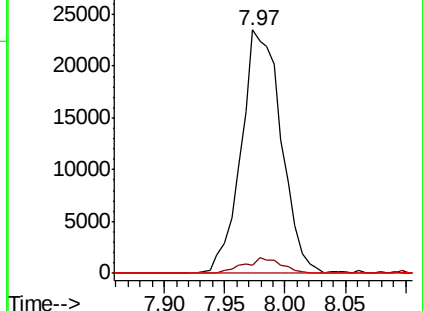
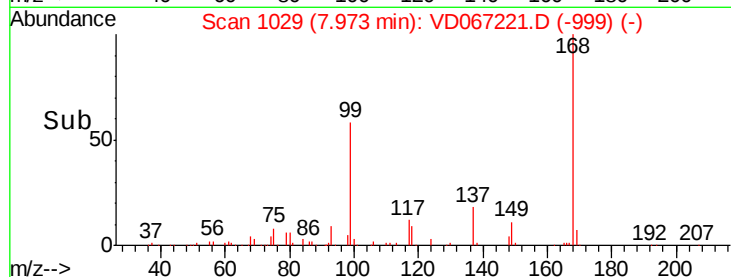
121 0.0 24.2 36.2#



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: 49.106 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067221.D

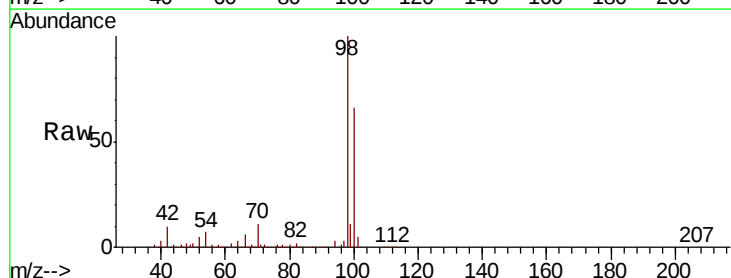
Acq: 09 Oct 2020 19:35

Tgt Ion: 98 Resp: 1019432

Ion Ratio Lower Upper

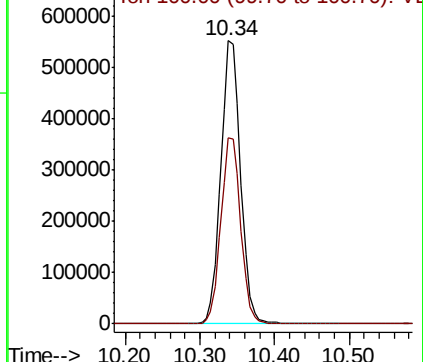
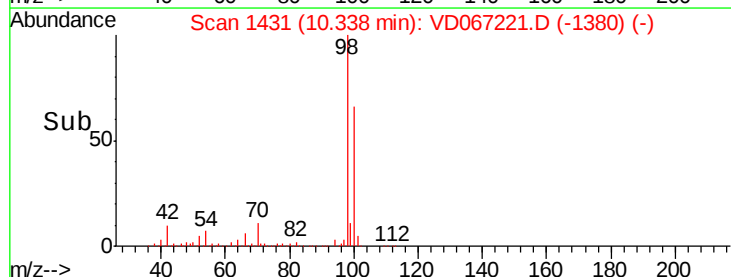
98 100

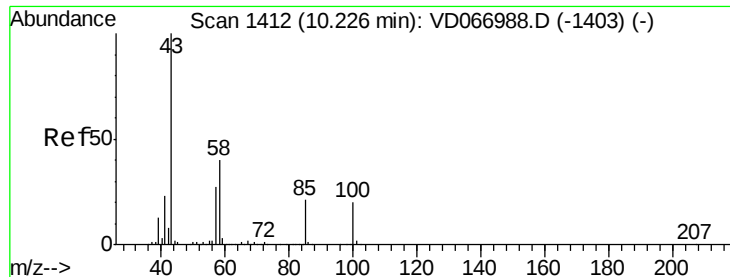
100 65.9 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.571 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.12 min

Lab File: VD067221.D

Acq: 09 Oct 2020 19:35

Instrument :

MSVOA_D

ClientSampled :

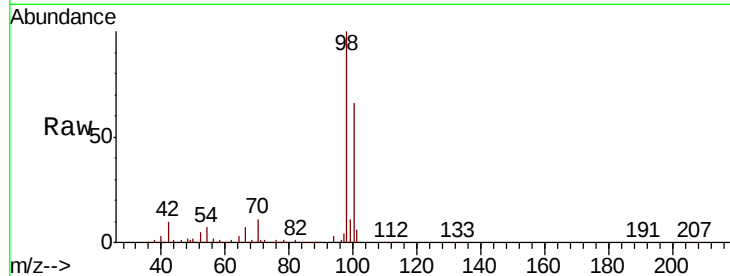
214

Tot Ion: 43 Resp: 4051

Ion Ratio Lower Upper

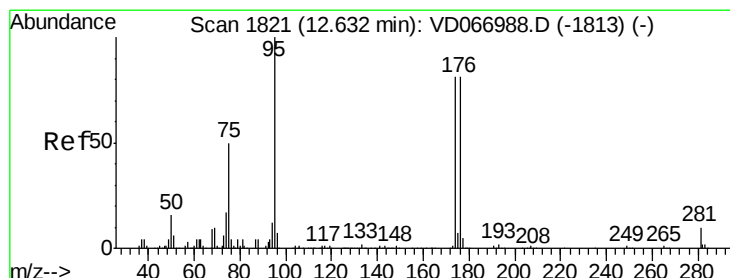
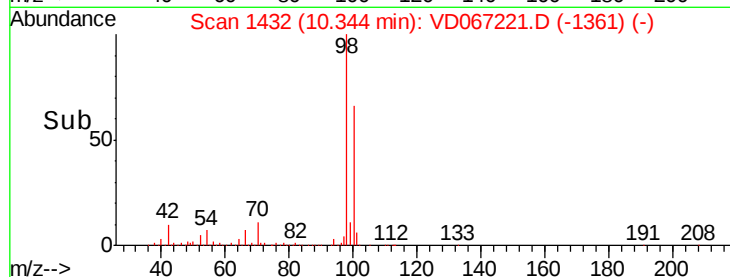
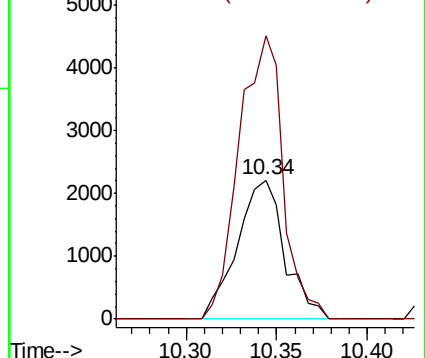
43 100

58 188.1 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 48.719 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067221.D

Acq: 09 Oct 2020 19:35

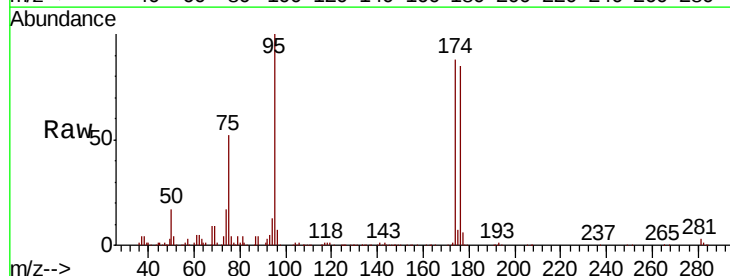
Tgt Ion: 95 Resp: 343347

Ion Ratio Lower Upper

95 100

174 87.0 0.0 167.6

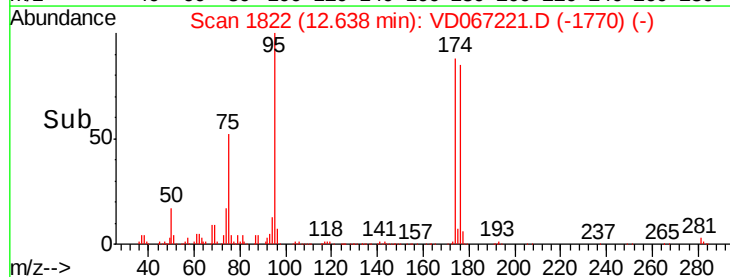
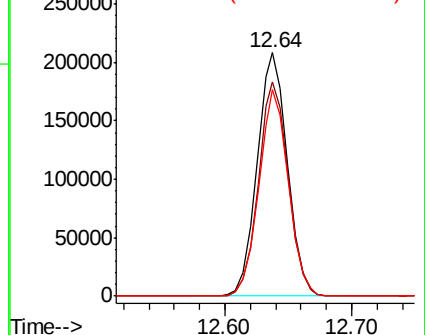
176 82.8 0.0 162.4

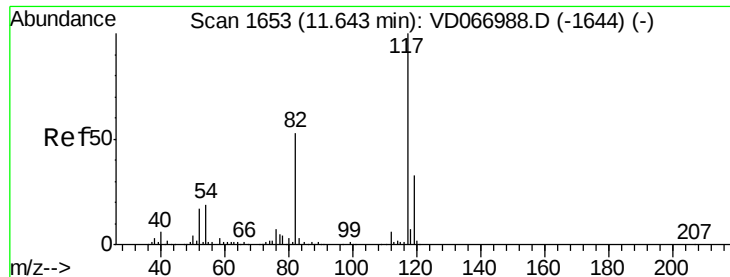


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

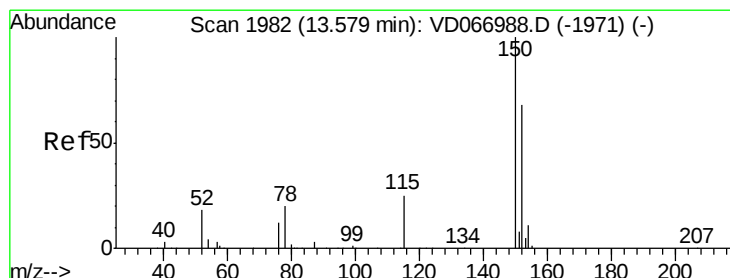
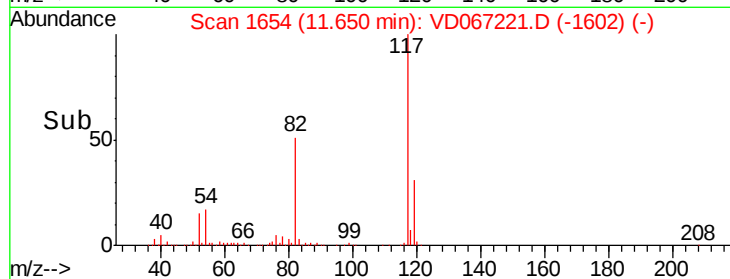
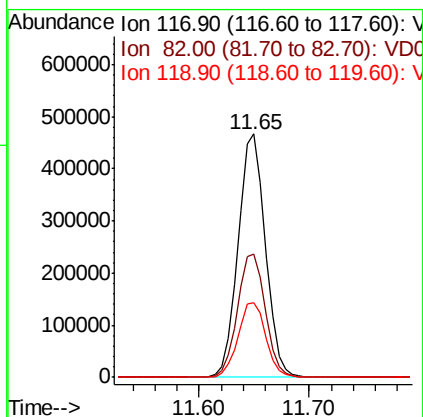
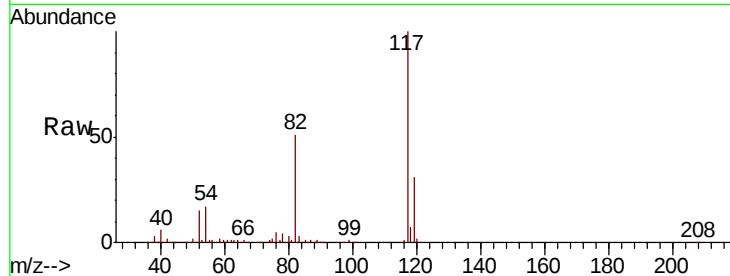




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD067221.D
Acq: 09 Oct 2020 19:35

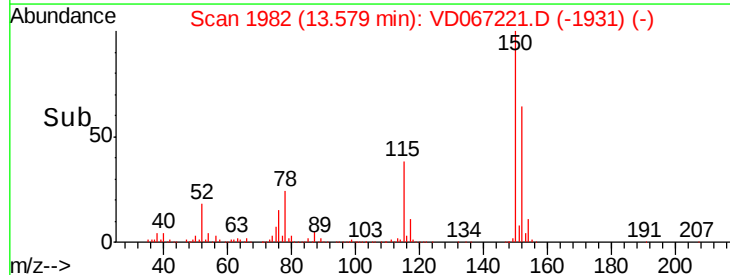
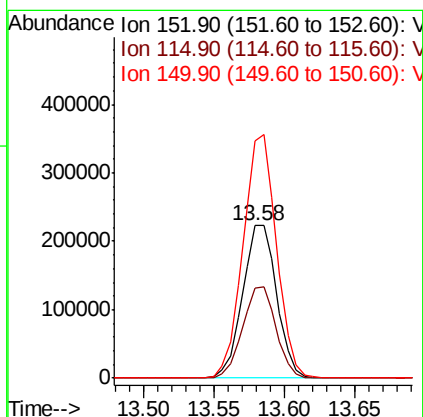
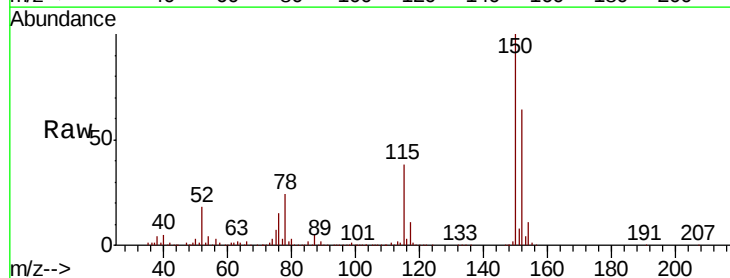
Instrument :
MSVOA_D
ClientSampleId :
214

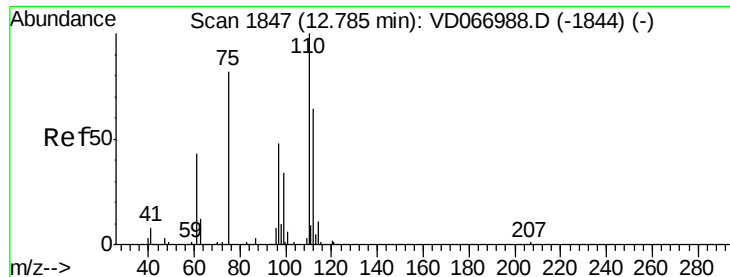
Tot Ion	Ratio	Lower	Upper
117	100		
82	50.8	42.6	63.8
119	30.8	26.3	39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067221.D
Acq: 09 Oct 2020 19:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.9	29.6	88.8
150	156.8	0.0	344.8





#76

1,2,3-Trichloropropane

Concen: 51.883 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067221.D

Acq: 09 Oct 2020 19:35

Instrument :

MSVOA_D

ClientSampleId :

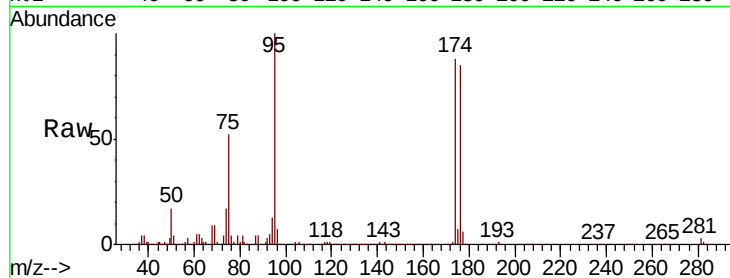
214

Tot Ion: 75 Resp: 170044

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

120000

100000

80000

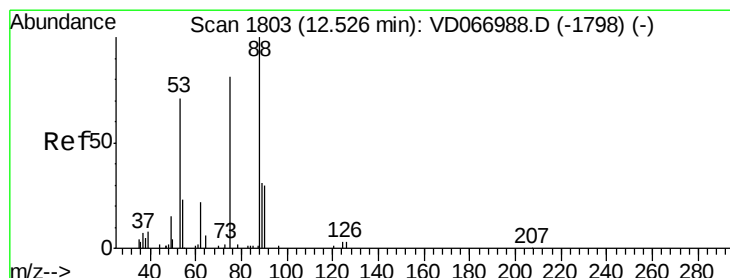
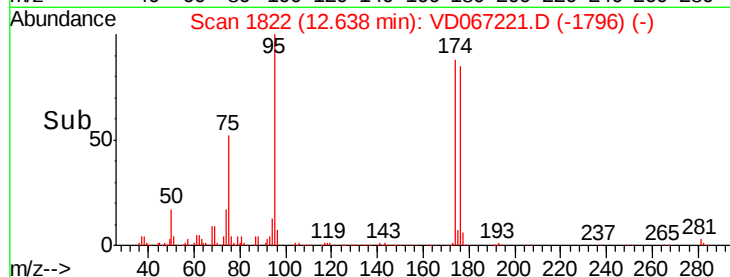
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 129.351 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067221.D

Acq: 09 Oct 2020 19:35

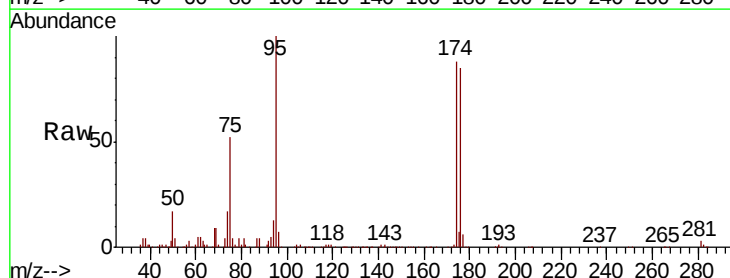
Tgt Ion: 75 Resp: 170044

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

150000

100000

50000

0

Time-->

