

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD021720\
 Data File : VD065203.D
 Acq On : 17 Feb 2020 18:16
 Operator : VA/SY
 Sample : L1484-02
 Misc : 5.10G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-2

Quant Time: Feb 18 03:17:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	3024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	4818	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	4823	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	1609	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	3105	120.81	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	241.62%	
35) Dibromofluoromethane	7.93	113	2024	75.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	150.58%	
50) Toluene-d8	10.34	98	5077	47.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.90%	
62) 4-Bromofluorobenzene	12.64	95	1446	42.65	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	85.30%	

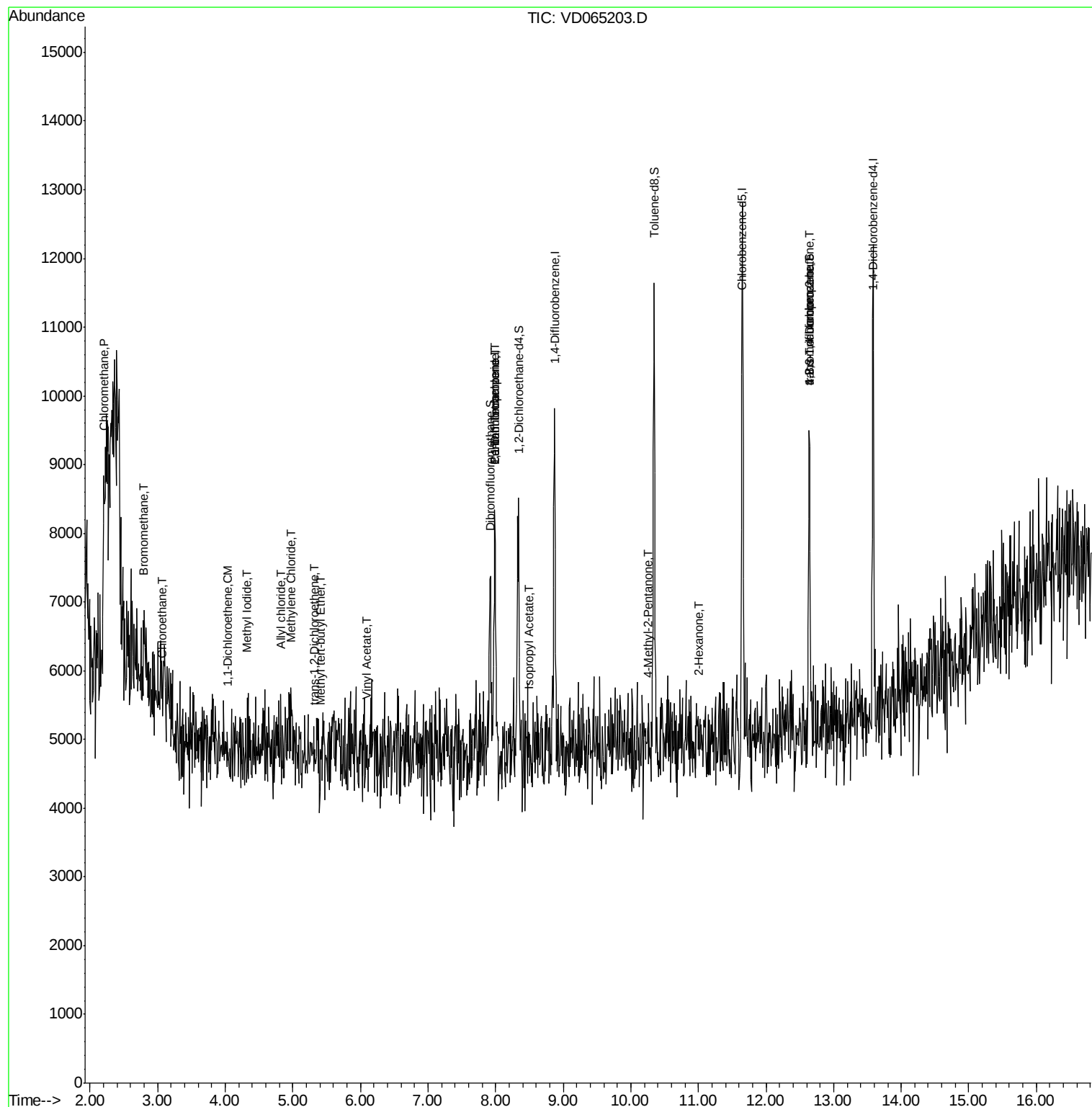
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	149	5.030	ug/l #	40
5) Bromomethane	2.79	94	218	10.732	ug/l	97
6) Chloroethane	3.07	64	65	3.345	ug/l #	44
10) Methyl Iodide	4.33	142	62	1.949	ug/l #	41
12) 1,1-Dichloroethene	4.04	96	67	2.510	ug/l #	1
14) Allyl chloride	4.81	41	63	1.420	ug/l #	51
19) Methyl tert-butyl Ether	5.41	73	63	1.067	ug/l #	55
20) Methylene Chloride	4.97	84	319	7.962	ug/l #	64
21) trans-1,2-Dichloroethene	5.33	96	55	1.821	ug/l #	1
23) Vinyl Acetate	6.09	43	77	1.651	ug/l #	72
36) 1,1-Dichloropropene	7.99	75	139	3.103	ug/l #	41
38) Carbon Tetrachloride	7.99	117	100	2.186	ug/l #	11
43) Isopropyl Acetate	8.50	43	68	1.942	ug/l #	52
51) 4-Methyl-2-Pentanone	10.25	43	65	3.772	ug/l #	37
59) 2-Hexanone	11.00	43	64	5.243	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	907	74.455	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	907	148.904	ug/l #	10

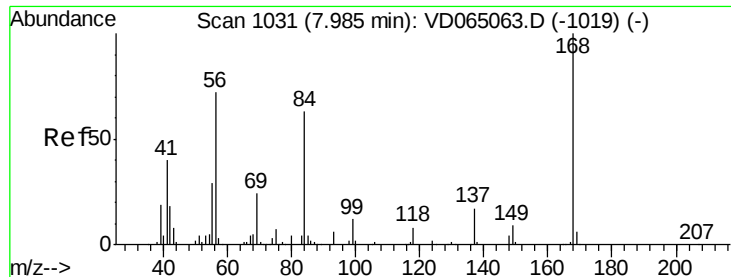
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Feb 05 15:53:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065203.D

Acq: 17 Feb 2020 18:16

Instrument :

MSVOA_D

ClientSampleId :

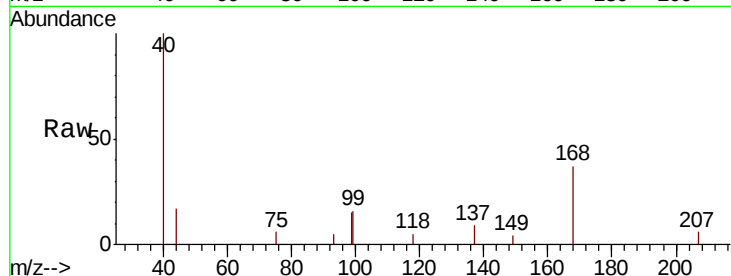
SP-2

Tot Ion:168 Resp: 3024

Ion Ratio Lower Upper

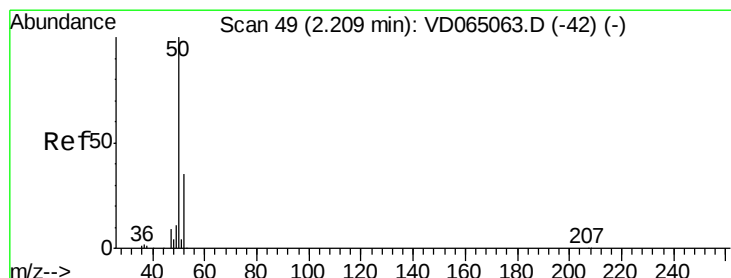
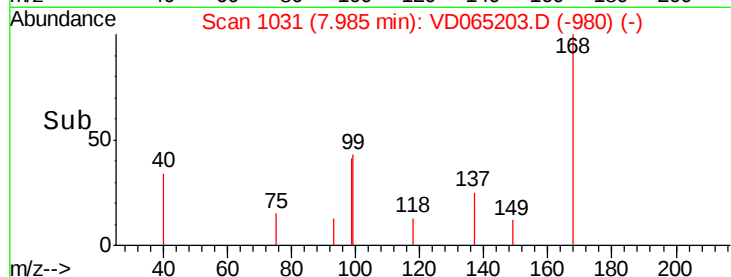
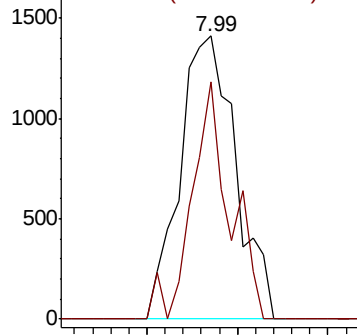
168 100

99 83.6 41.0 61.6#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 5.030 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065203.D

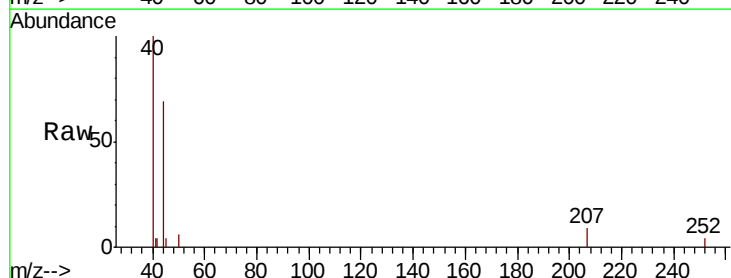
Acq: 17 Feb 2020 18:16

Tgt Ion: 50 Resp: 149

Ion Ratio Lower Upper

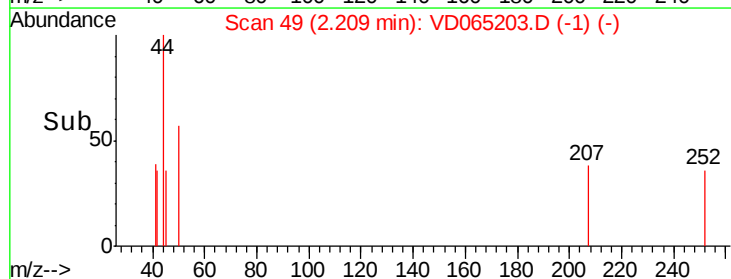
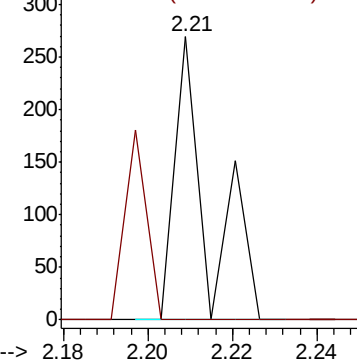
50 100

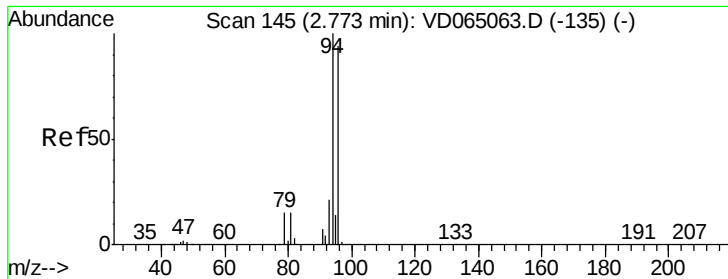
52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 10.732 ug/l

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065203.D

Acq: 17 Feb 2020 18:16

Instrument :

MSVOA_D

ClientSampleID :

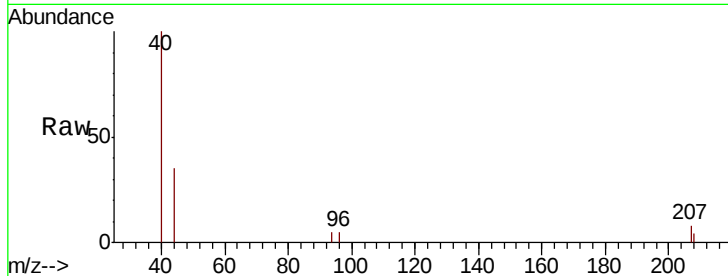
SP-2

Tot Ion: 94 Resp: 218

Ion Ratio Lower Upper

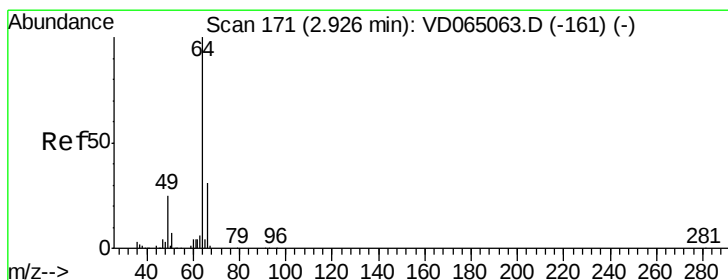
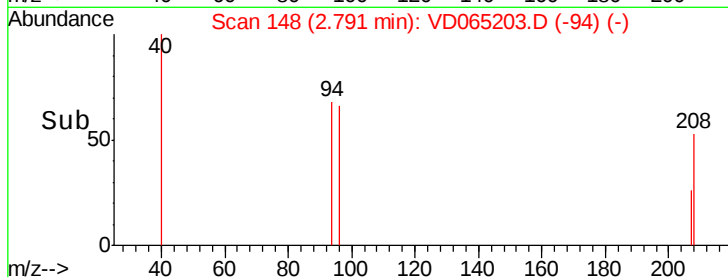
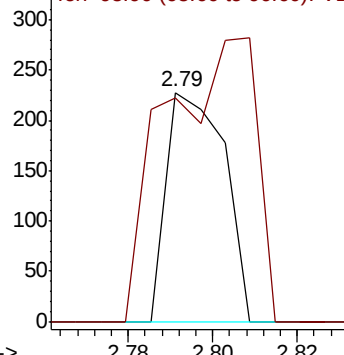
94 100

96 97.4 75.4 113.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 3.345 ug/l

RT: 3.07 min Scan# 196

Delta R.T. 0.15 min

Lab File: VD065203.D

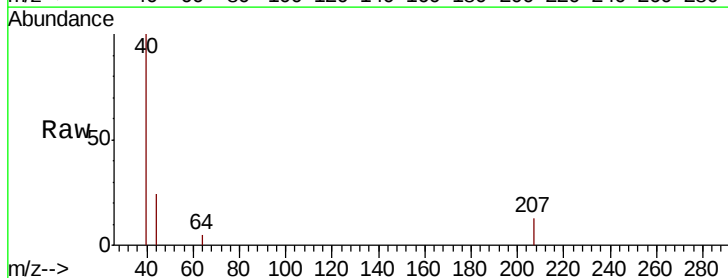
Acq: 17 Feb 2020 18:16

Tgt Ion: 64 Resp: 65

Ion Ratio Lower Upper

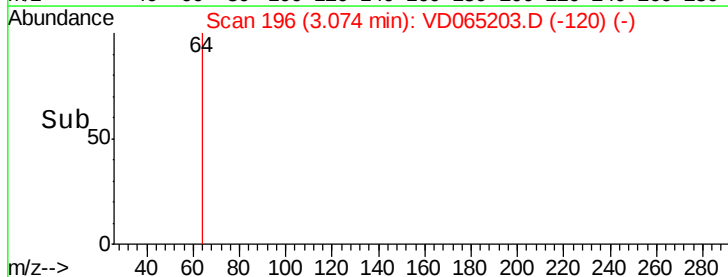
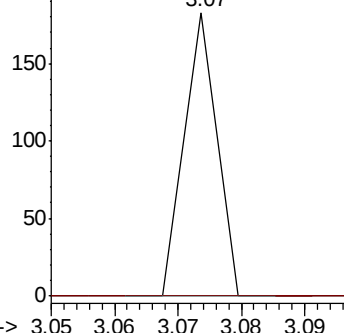
64 100

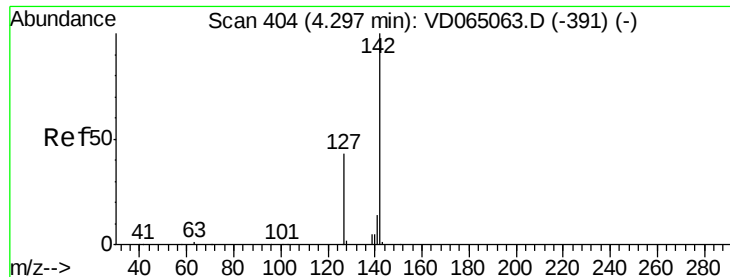
66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

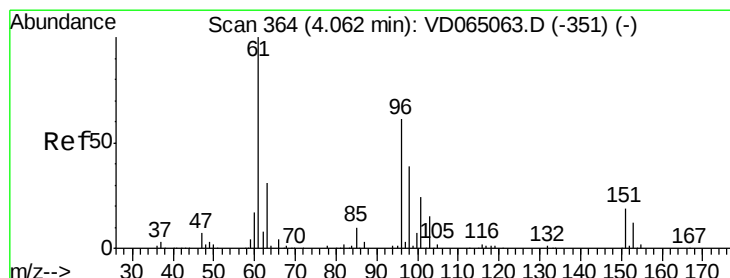
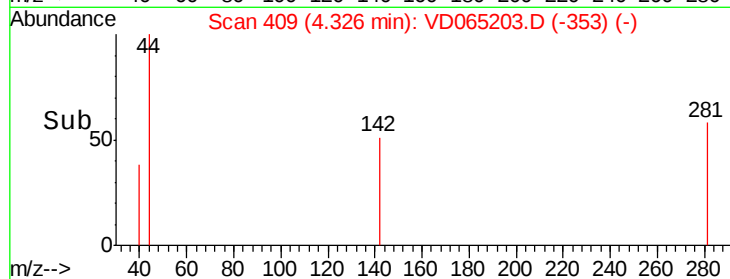
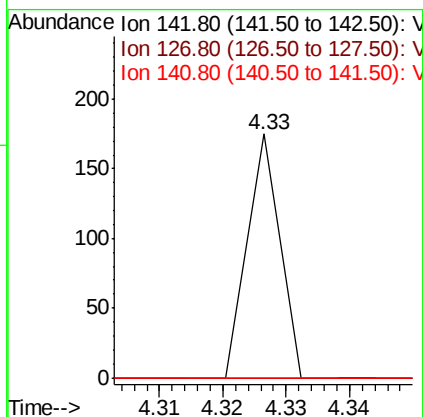
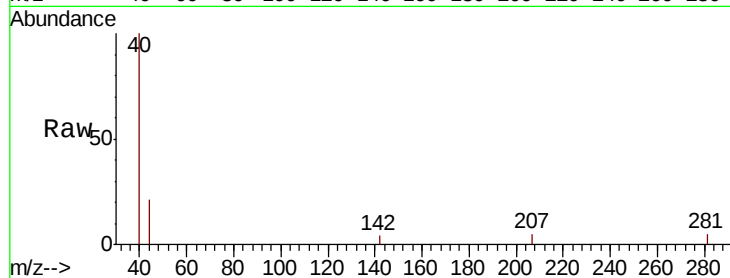




#10
Methyl Iodide
Concen: 1.949 ug/l
RT: 4.33 min Scan# 409
Delta R.T. 0.03 min
Lab File: VD065203.D
Acq: 17 Feb 2020 18:16

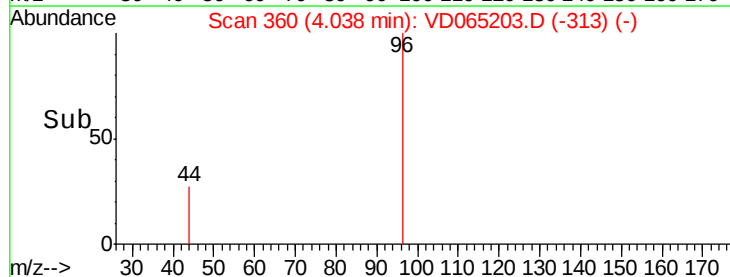
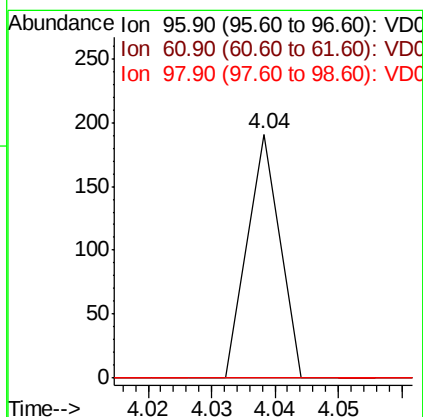
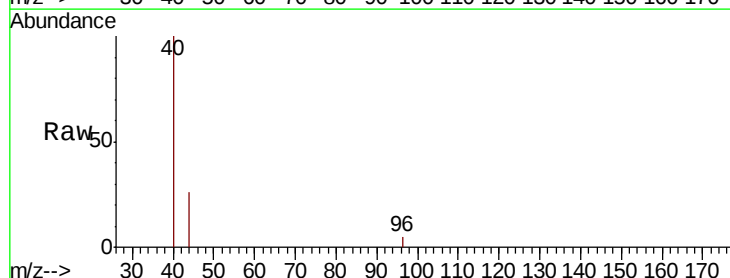
Instrument :
MSVOA_D
ClientSampled :
SP-2

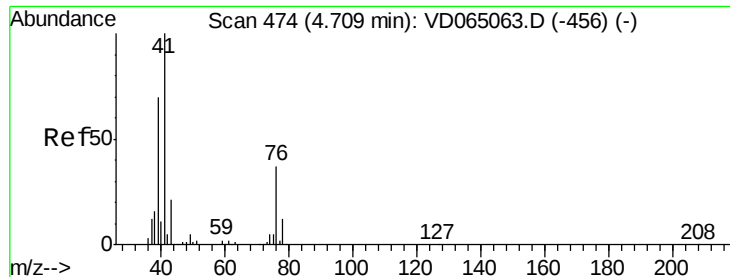
Tot Ion:142 Resp: 62
Ion Ratio Lower Upper
142 100
127 0.0 34.0 51.0#
141 0.0 11.6 17.4#



#12
1,1-Dichloroethene
Concen: 2.510 ug/l
RT: 4.04 min Scan# 360
Delta R.T. -0.02 min
Lab File: VD065203.D
Acq: 17 Feb 2020 18:16

Tgt Ion: 96 Resp: 67
Ion Ratio Lower Upper
96 100
61 0.0 131.4 197.2#
98 0.0 51.1 76.7#





#14

Allvl chloride

Concen: 1.420 ug/l

RT: 4.81 min Scan# 492

Delta R.T. 0.11 min

Lab File: VD065203.D

Acq: 17 Feb 2020 18:16

Instrument :

MSVOA_D

ClientSampled :

SP-2

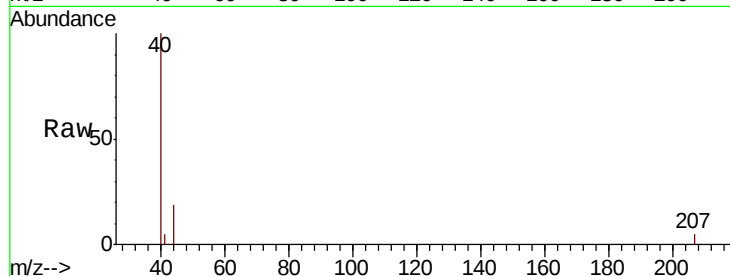
Tot Ion: 41 Resp: 63

Ion Ratio Lower Upper

41 100

39 107.9 57.1 85.7#

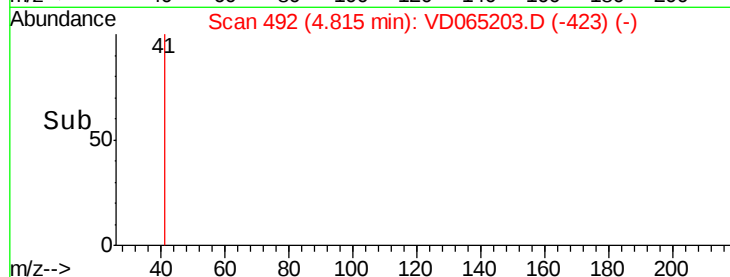
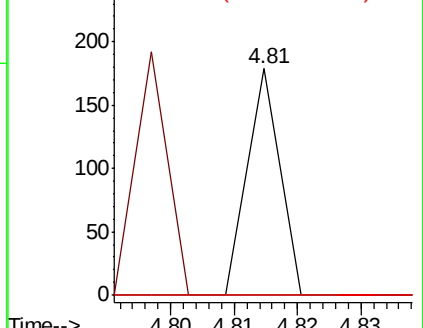
76 0.0 28.0 42.0#



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC



#19

Methyl tert-butyl Ether

Concen: 1.067 ug/l

RT: 5.41 min Scan# 593

Delta R.T. -0.08 min

Lab File: VD065203.D

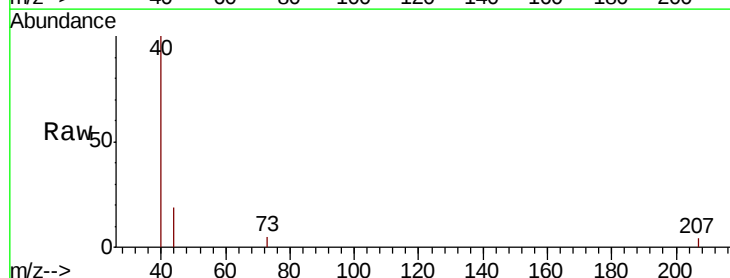
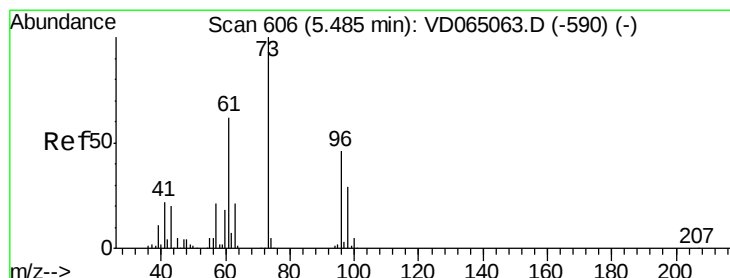
Acq: 17 Feb 2020 18:16

Tgt Ion: 73 Resp: 63

Ion Ratio Lower Upper

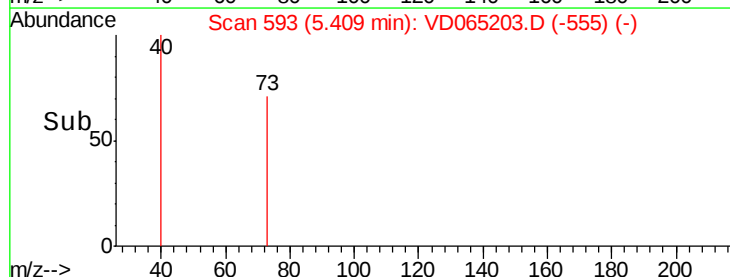
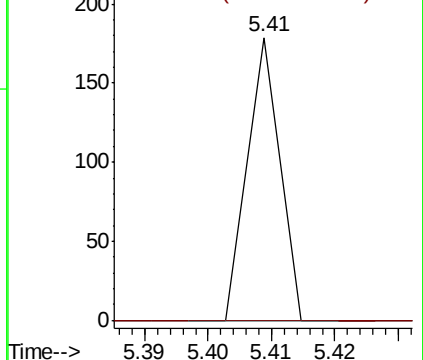
73 100

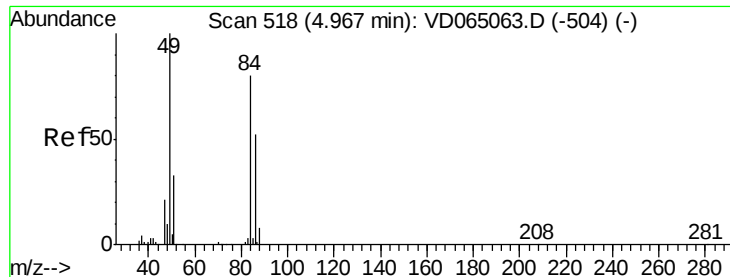
57 0.0 16.8 25.2#



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

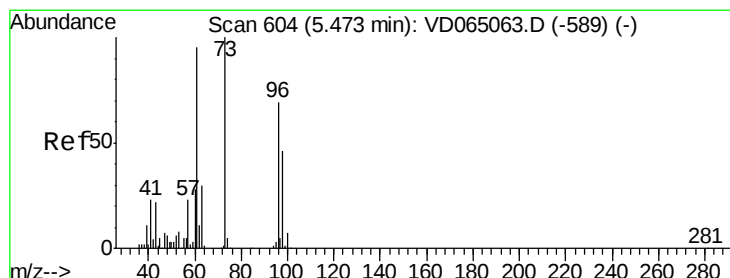
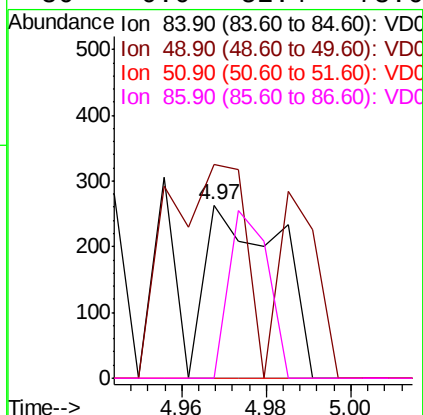
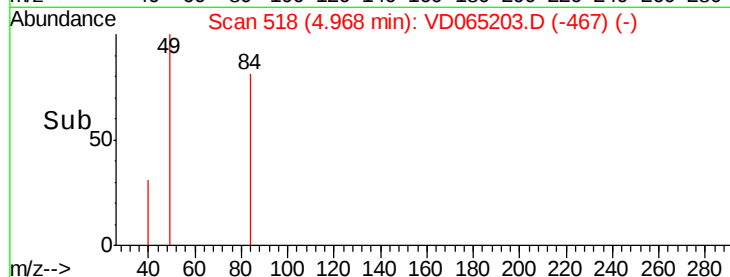
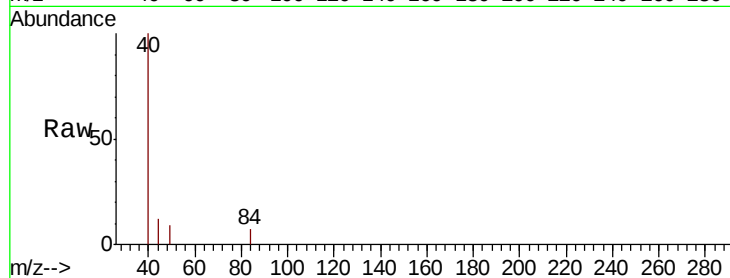




#20
Methvlene Chloride
Concen: 7.962 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD065203.D
Acq: 17 Feb 2020 18:16

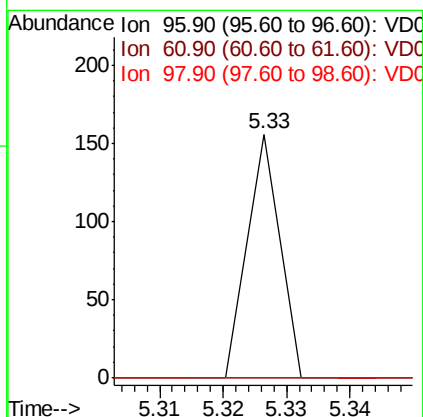
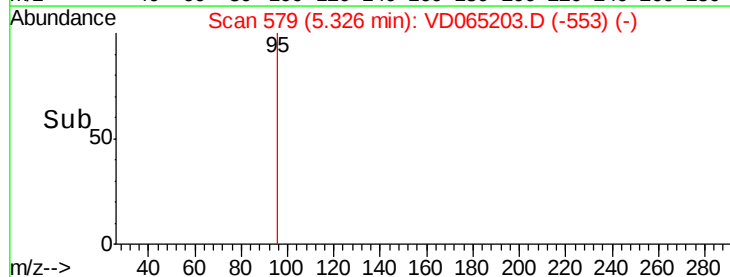
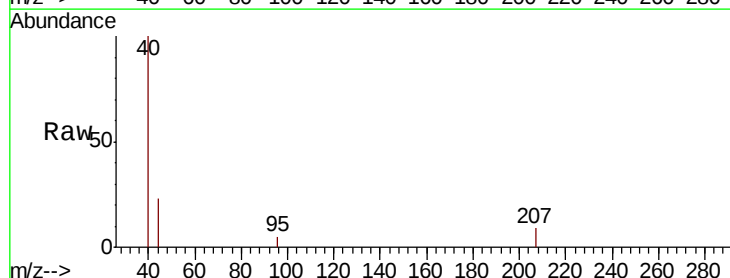
Instrument :
MSVOA_D
ClientSampleId :
SP-2

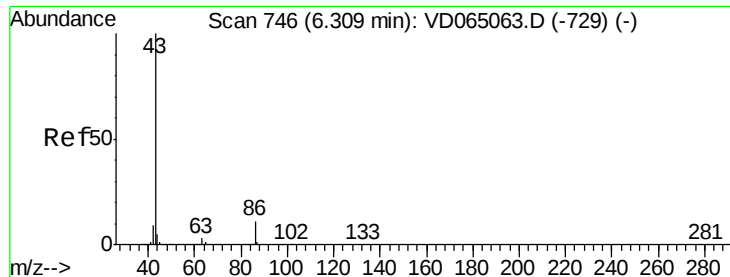
Tot Ion: 84 Resp: 319
Ion Ratio Lower Upper
84 100
49 123.6 100.4 150.6
51 0.0 32.7 49.1#
86 0.0 52.4 78.6#



#21
trans-1,2-Dichloroethene
Concen: 1.821 ug/l
RT: 5.33 min Scan# 579
Delta R.T. -0.15 min
Lab File: VD065203.D
Acq: 17 Feb 2020 18:16

Tgt Ion: 96 Resp: 55
Ion Ratio Lower Upper
96 100
61 0.0 109.5 164.3#
98 0.0 53.7 80.5#





#23

Vinyl Acetate

Concen: 1.651 ug/l

RT: 6.09 min Scan# 709

Delta R.T. -0.22 min

Lab File: VD065203.D

Acq: 17 Feb 2020 18:16

Instrument :

MSVOA_D

ClientSampleId :

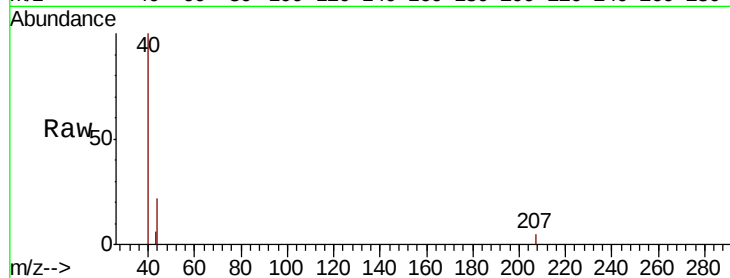
SP-2

Tot Ion: 43 Resp: 77

Ion Ratio Lower Upper

43 100

86 0.0 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.09

250

200

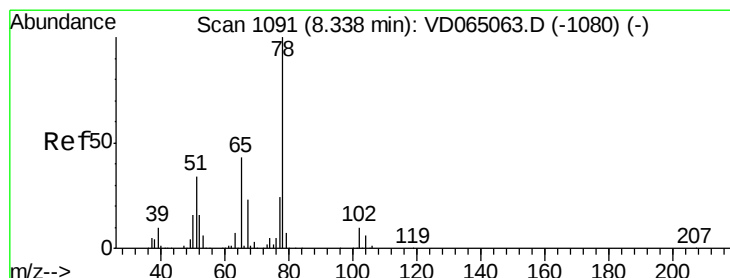
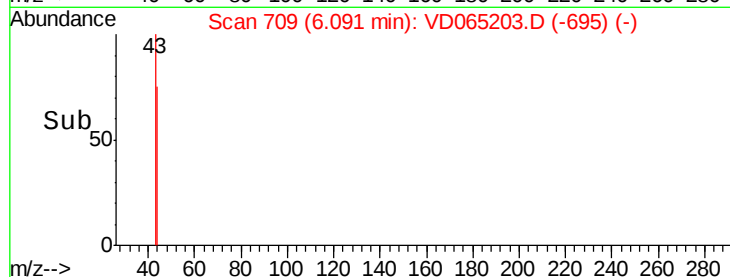
150

100

50

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 120.810 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065203.D

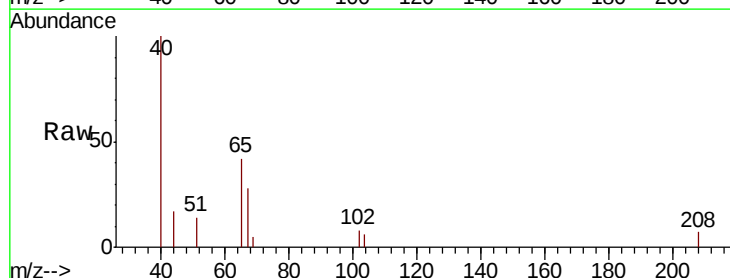
Acq: 17 Feb 2020 18:16

Tgt Ion: 65 Resp: 3105

Ion Ratio Lower Upper

65 100

67 56.0 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

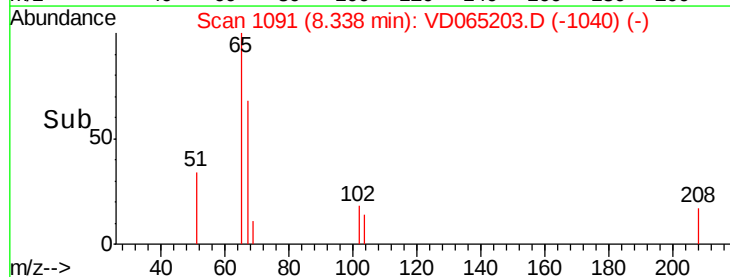
1500

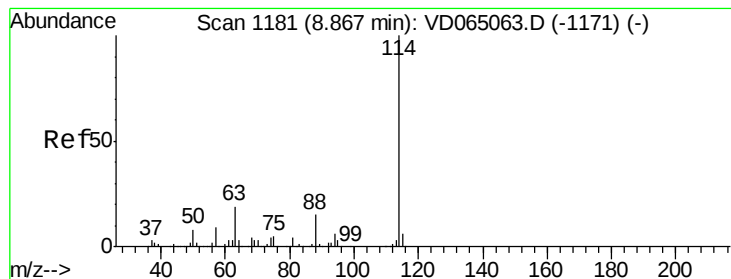
1000

500

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065203.D

Acq: 17 Feb 2020 18:16

Instrument :

MSVOA_D

ClientSampleId :

SP-2

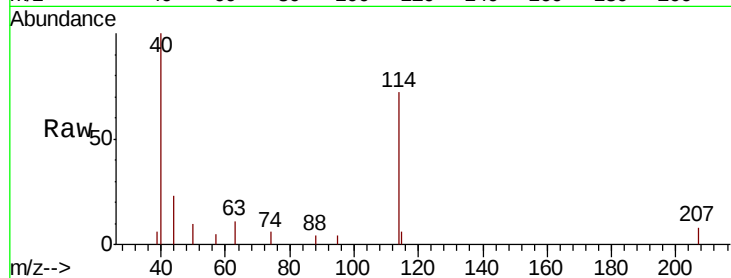
Tot Ion:114 Resp: 4818

Ion Ratio Lower Upper

114 100

63 15.6 0.0 38.8

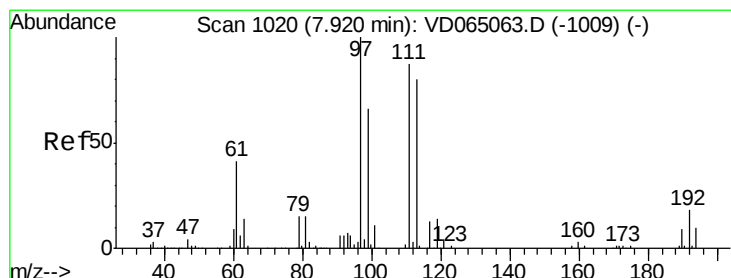
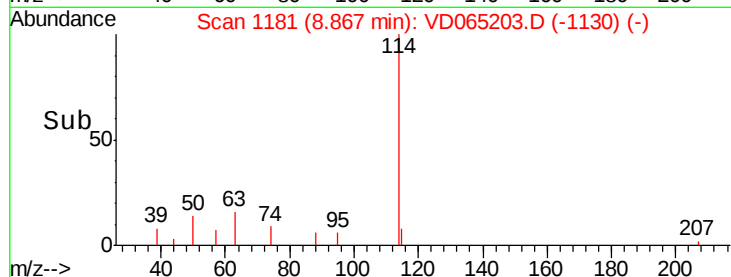
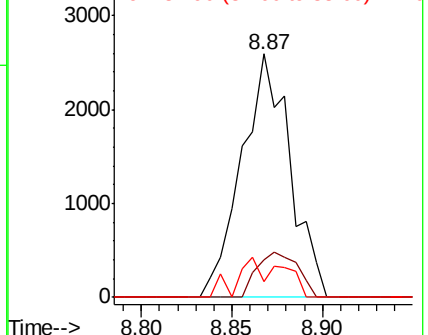
88 6.2 0.0 29.6



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: 75.294 ug/l

RT: 7.93 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VD065203.D

Acq: 17 Feb 2020 18:16

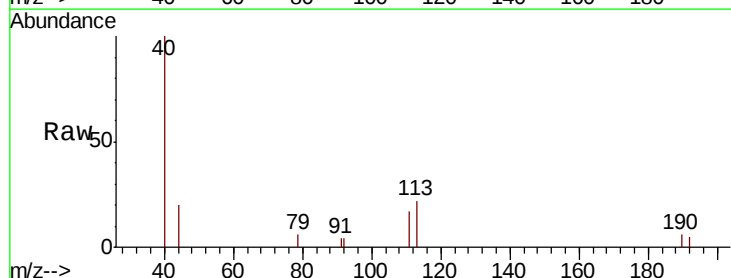
Tgt Ion:113 Resp: 2024

Ion Ratio Lower Upper

113 100

111 104.9 83.1 124.7

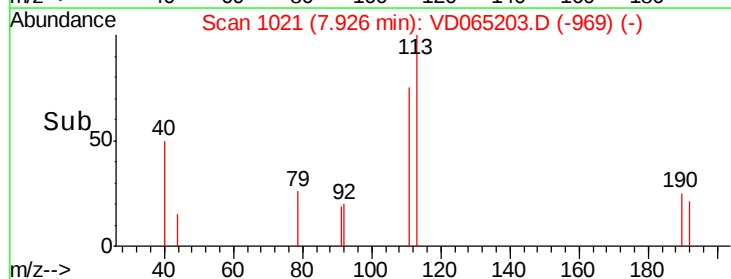
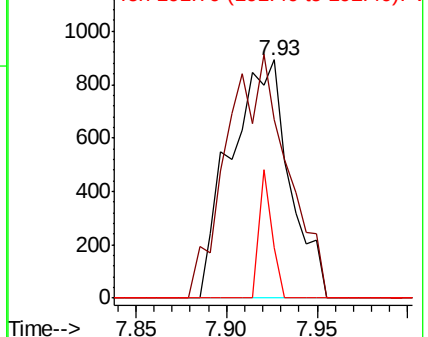
192 11.8 18.1 27.1#

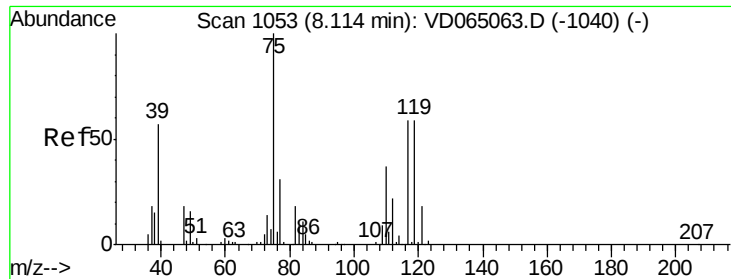


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

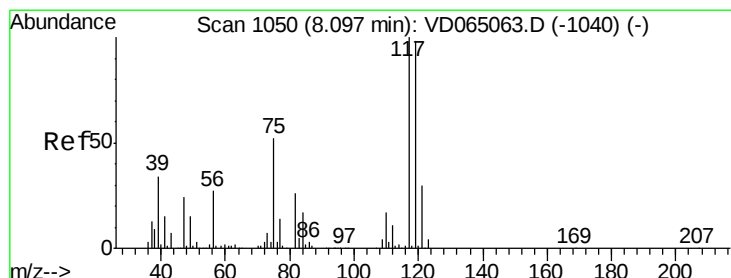
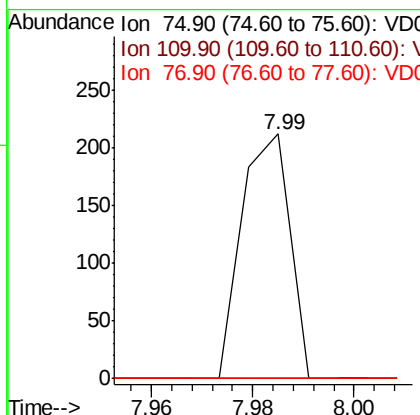
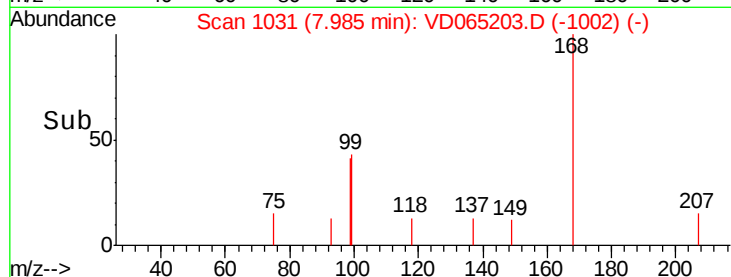
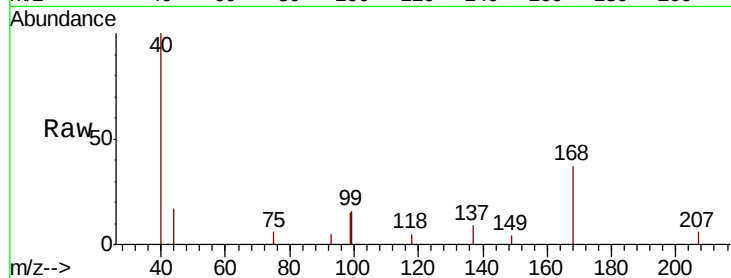




#36
 1,1-Dichloropropene
 Concen: 3.103 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD065203.D
 Acq: 17 Feb 2020 18:16

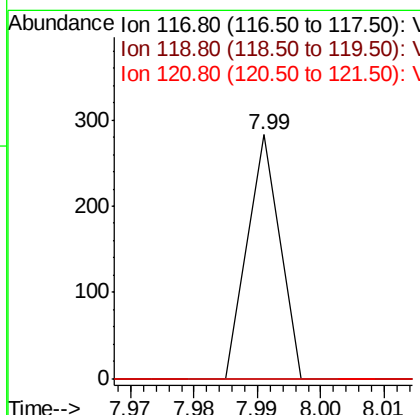
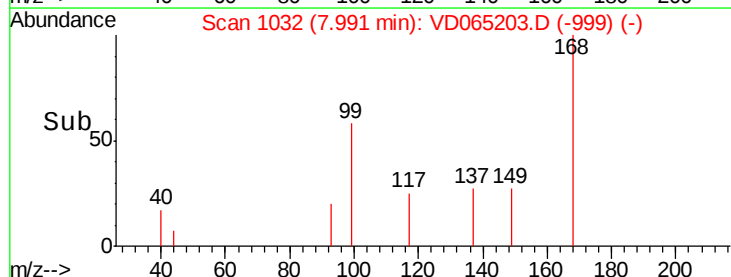
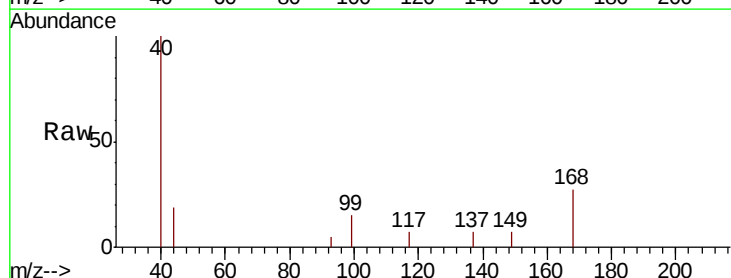
Instrument :
 MSVOA_D
 ClientSampled :
 SP-2

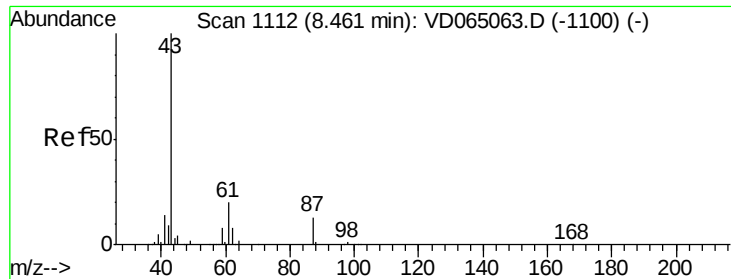
Tot Ion: 75 Resp: 139
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.1 54.3#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 2.186 ug/l
 RT: 7.99 min Scan# 1032
 Delta R.T. -0.11 min
 Lab File: VD065203.D
 Acq: 17 Feb 2020 18:16

Tgt Ion: 117 Resp: 100
 Ion Ratio Lower Upper
 117 100
 119 0.0 78.5 117.7#
 121 0.0 23.8 35.6#





#43

Isopropyl Acetate

Concen: 1.942 ug/l

RT: 8.50 min Scan# 1118

Delta R.T. 0.04 min

Lab File: VD065203.D

Acq: 17 Feb 2020 18:16

Instrument :

MSVOA_D

ClientSampleId :

SP-2

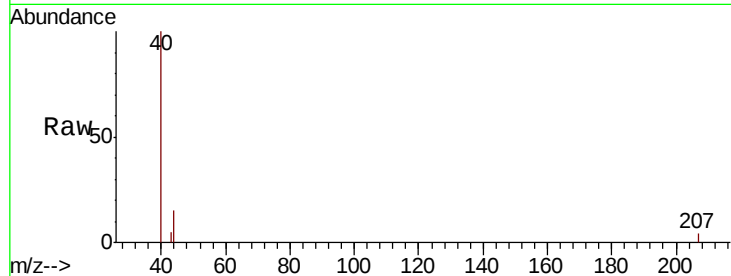
Tot Ion: 43 Resp: 68

Ion Ratio Lower Upper

43 100

61 0.0 24.0 36.0#

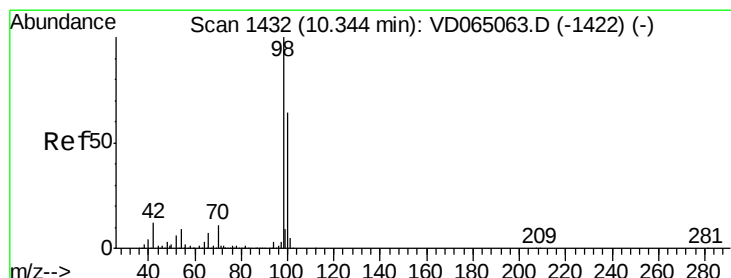
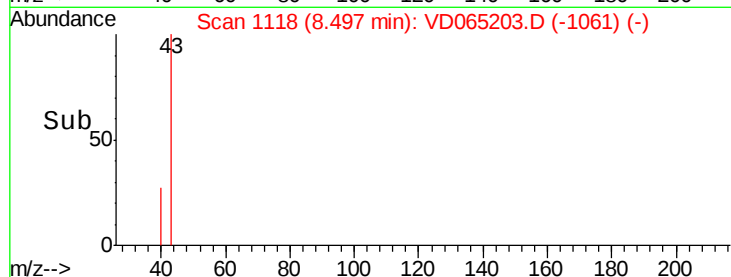
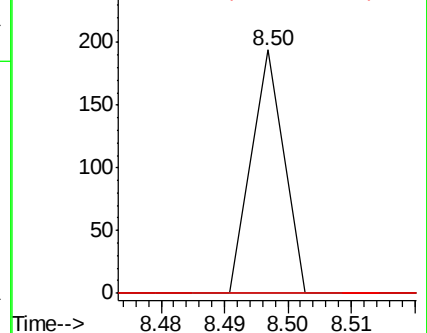
87 0.0 10.2 15.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#50

Toluene-d8

Concen: 47.450 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065203.D

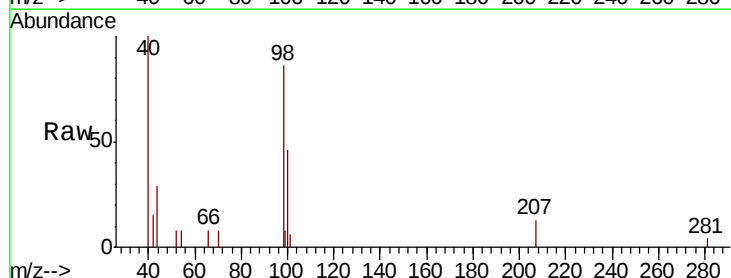
Acq: 17 Feb 2020 18:16

Tgt Ion: 98 Resp: 5077

Ion Ratio Lower Upper

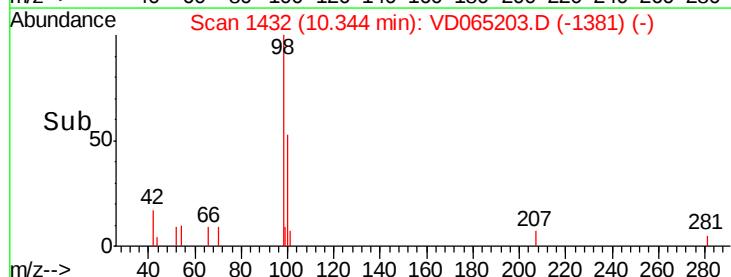
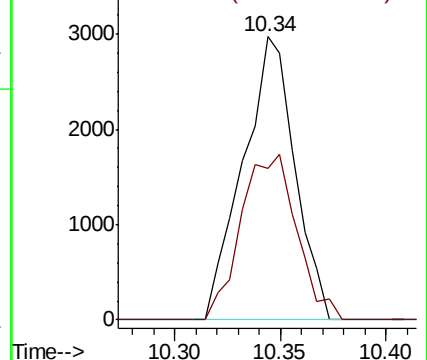
98 100

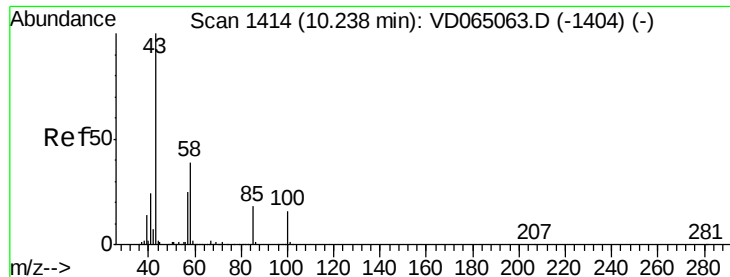
100 62.6 52.1 78.1



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: 3.772 ug/l

RT: 10.25 min Scan# 1416

Delta R.T. 0.01 min

Lab File: VD065203.D

Acq: 17 Feb 2020 18:16

Instrument :

MSVOA_D

ClientSampleId :

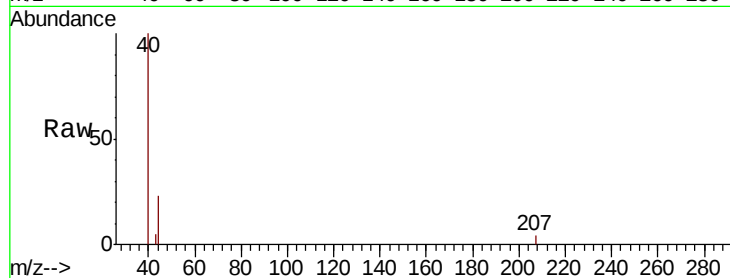
SP-2

Tot Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#

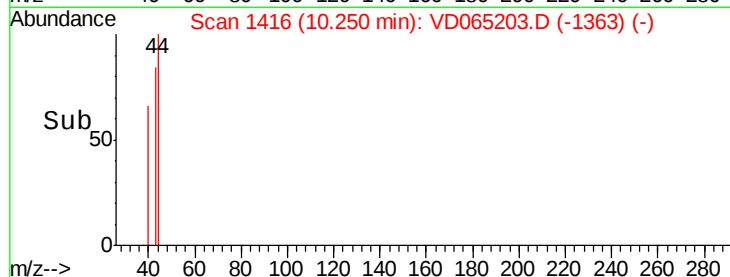


Abundance Ion 43.00 (42.70 to 43.70): VDC

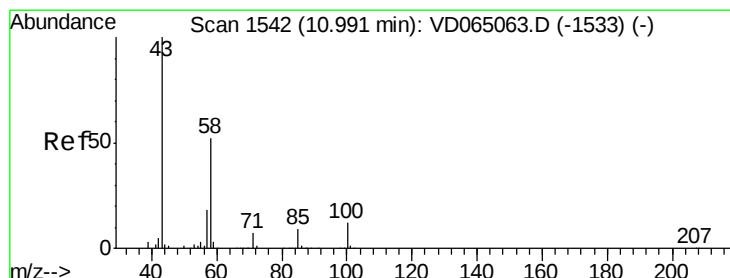
Ion 58.00 (57.70 to 58.70): VDC

10.25

10.24 10.26



Time-->



#59

2-Hexanone

Concen: 5.243 ug/l

RT: 11.00 min Scan# 1544

Delta R.T. 0.01 min

Lab File: VD065203.D

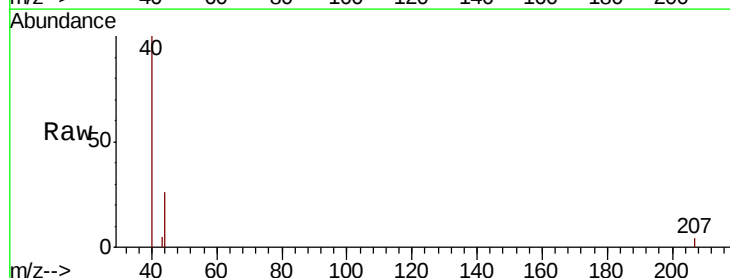
Acq: 17 Feb 2020 18:16

Tgt Ion: 43 Resp: 64

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.6#

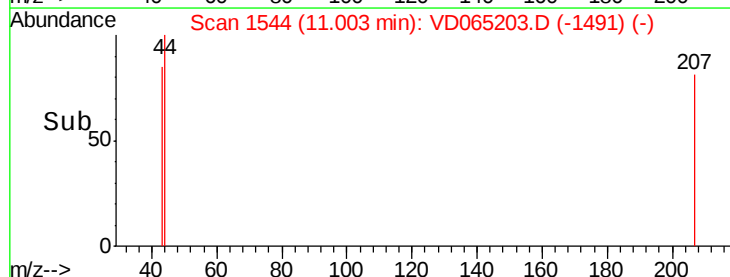


Abundance Ion 43.00 (42.70 to 43.70): VDC

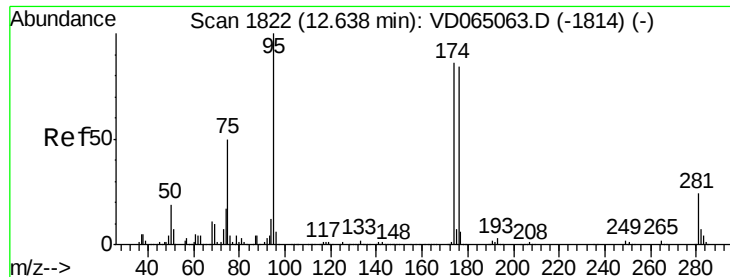
Ion 58.00 (57.70 to 58.70): VDC

11.00

10.98 11.02



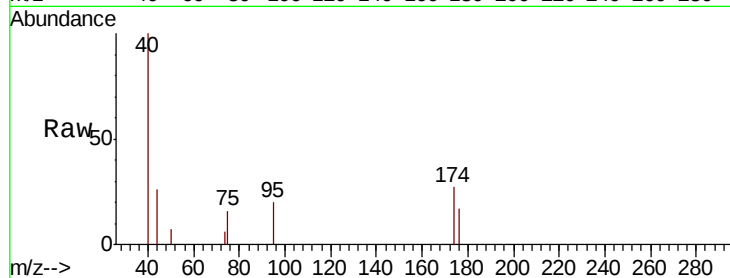
Time-->



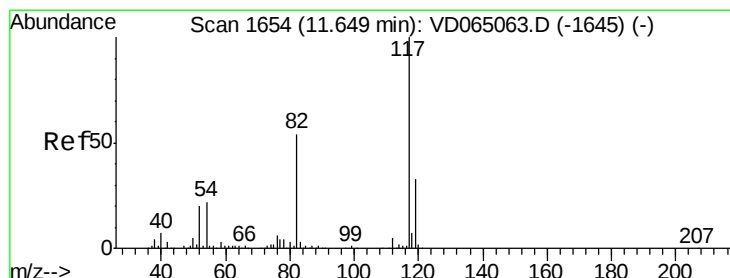
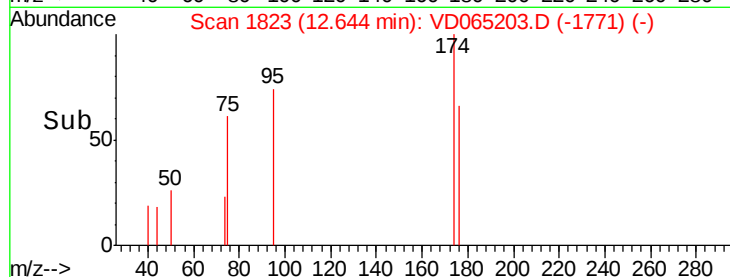
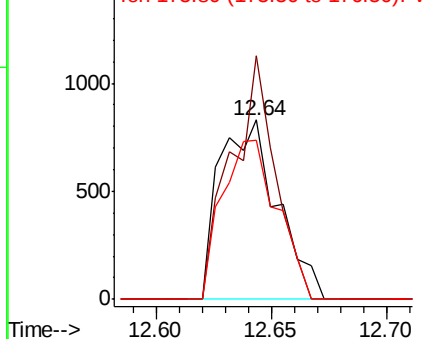
#62
4-Bromofluorobenzene
Concen: 42.651 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VD065203.D
Acq: 17 Feb 2020 18:16

Instrument :
MSVOA_D
ClientSampled :
SP-2

Tot Ion: 95 Resp: 1446
Ion Ratio Lower Upper
95 100
174 103.0 0.0 180.0
176 84.8 0.0 173.2

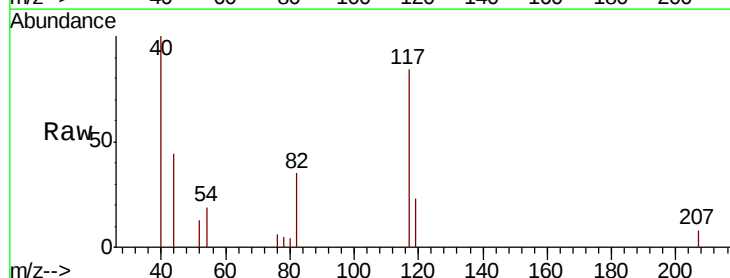


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

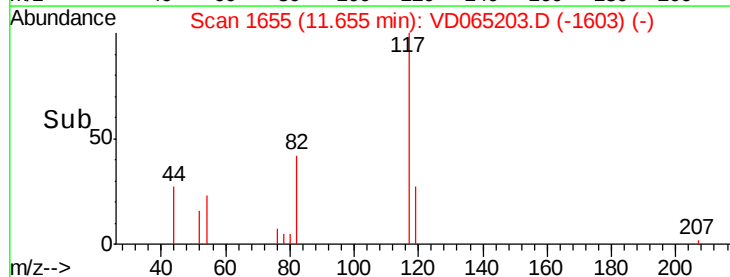
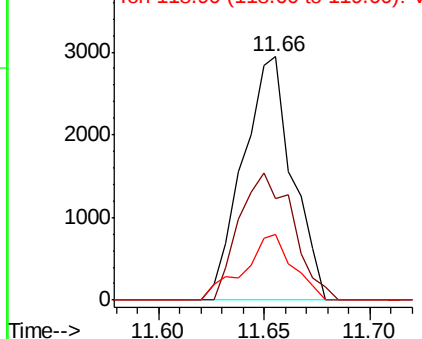


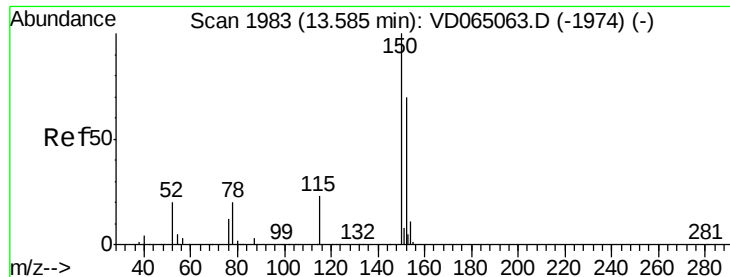
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.66 min Scan# 1655
Delta R.T. 0.01 min
Lab File: VD065203.D
Acq: 17 Feb 2020 18:16

Tgt Ion: 117 Resp: 4823
Ion Ratio Lower Upper
117 100
82 41.7 43.1 64.7#
119 27.1 26.0 39.0



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: VD065203.D

Acq: 17 Feb 2020 18:16

Instrument :

MSVOA_D

ClientSampled :

SP-2

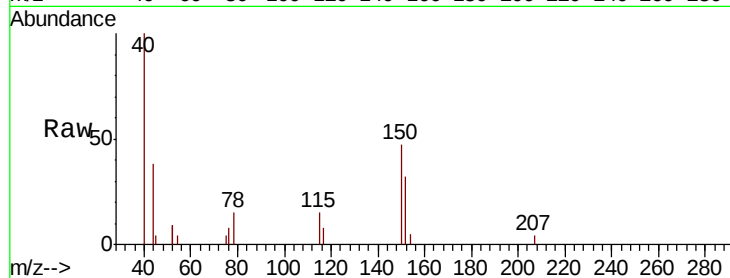
Tot Ion:152 Resp: 1609

Ion Ratio Lower Upper

152 100

115 58.1 27.5 82.4

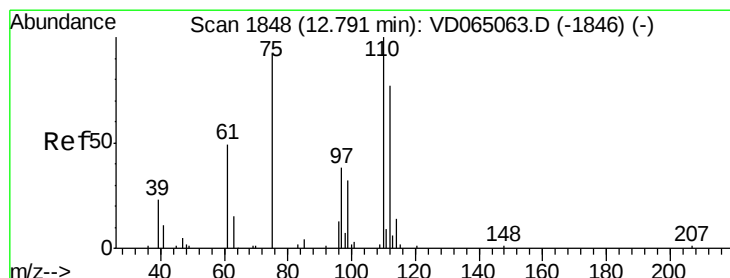
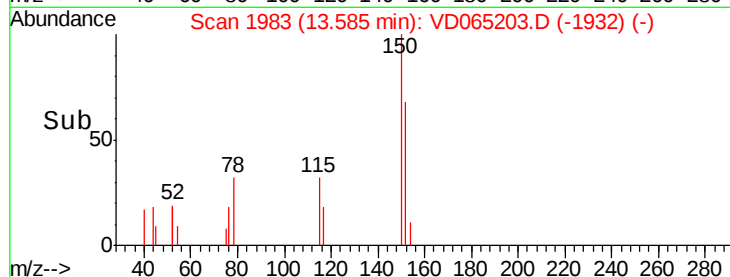
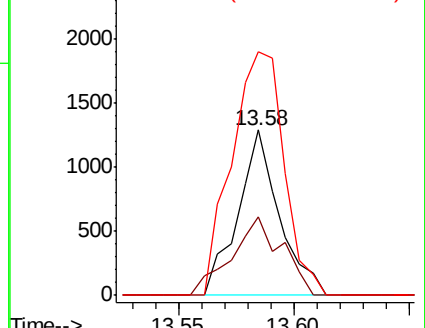
150 186.9 0.0 343.2



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: 74.455 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065203.D

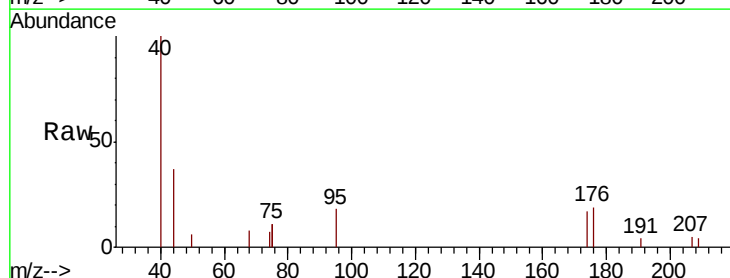
Acq: 17 Feb 2020 18:16

Tgt Ion: 75 Resp: 907

Ion Ratio Lower Upper

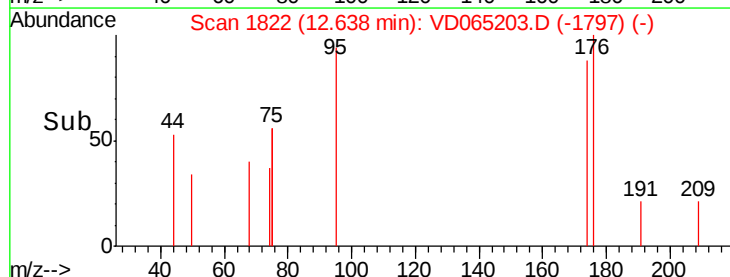
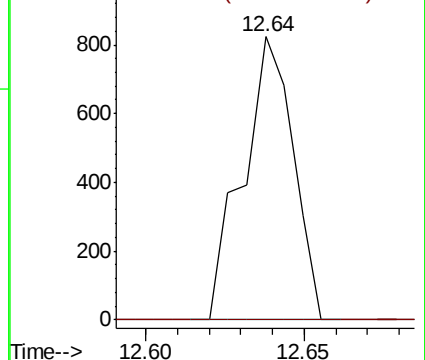
75 100

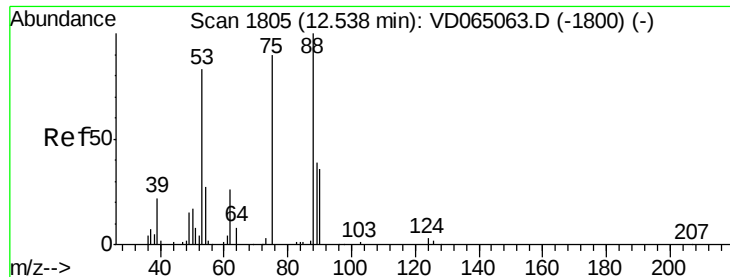
77 0.0 0.0 0.0



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: 148.904 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065203.D

Acq: 17 Feb 2020 18:16

Instrument :

MSVOA_D

ClientSampleId :

SP-2

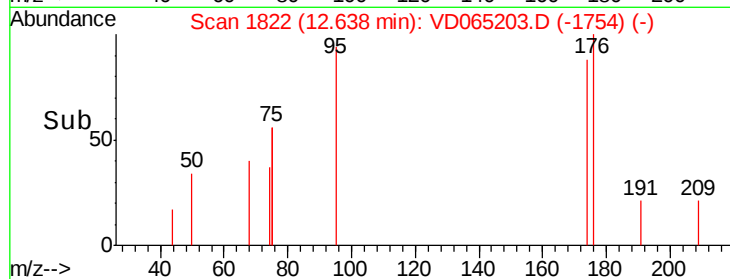
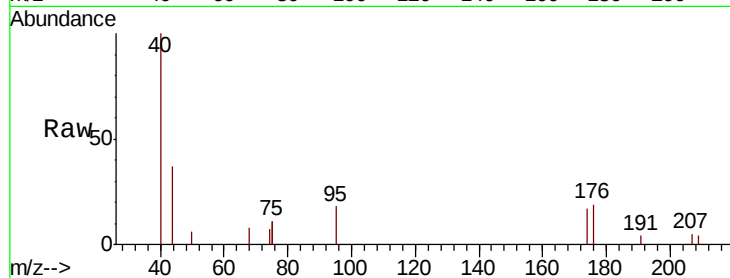
Tot Ion: 75 Resp: 907

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.0 55.4#



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

