

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD123119\
 Data File : VD064696.D
 Acq On : 31 Dec 2019 15:46
 Operator : VA/SY
 Sample : K6464-02
 Misc : 4.92G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-5-(8-10)

Quant Time: Jan 01 00:46:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	124	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.87	114	352	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	191	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-13.58

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	10.34	98	636	76.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	153.80%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

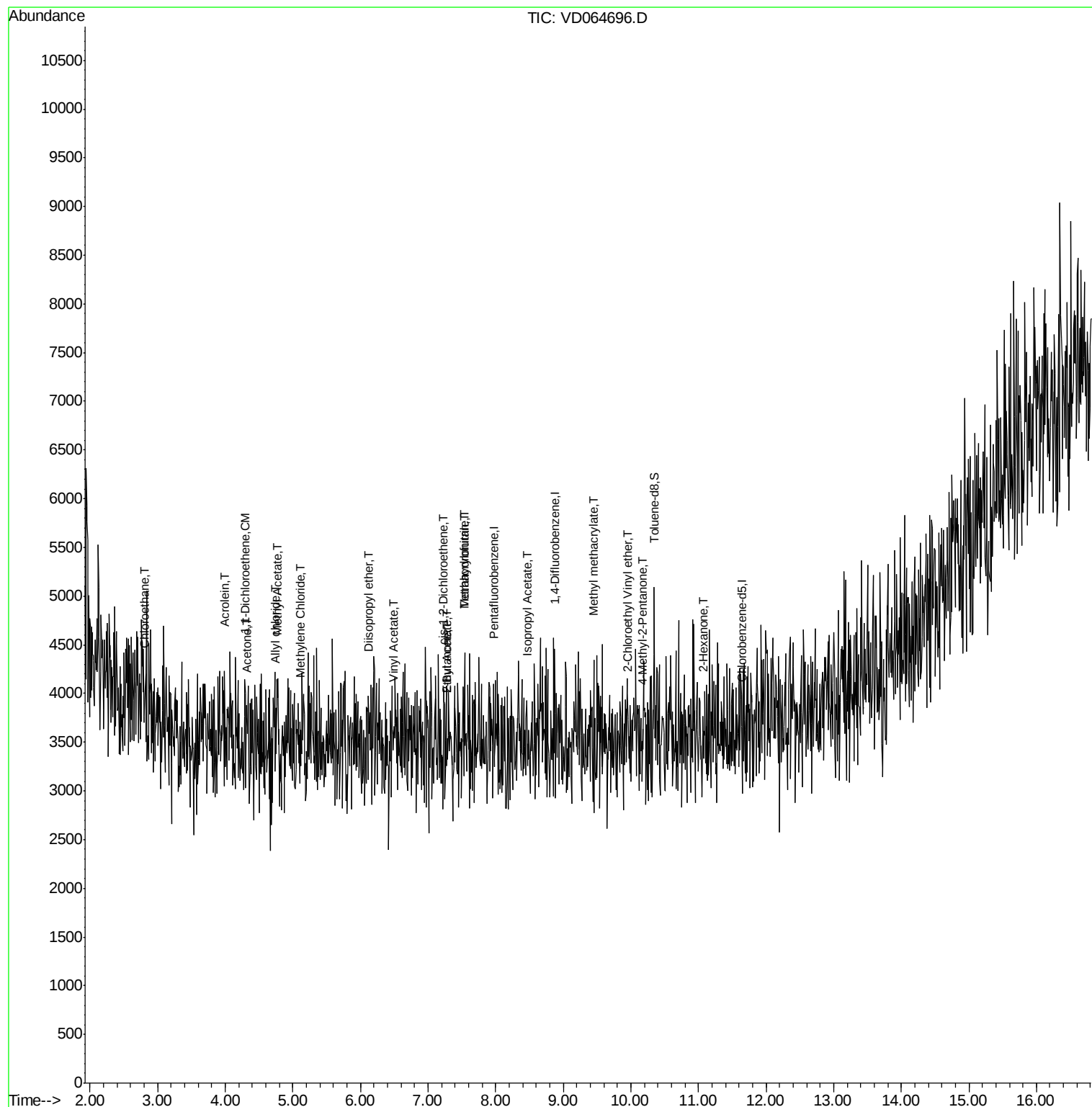
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	2.81	64	58	52.676	ug/l #	42
12) 1,1-Dichloroethene	4.30	96	56	51.332	ug/l #	1
13) Acrolein	3.98	56	60	687.033	ug/l #	14
14) Allyl chloride	4.74	41	56	32.924	ug/l #	19
16) Acetone	4.32	43	60	261.962	ug/l #	42
18) Methyl Acetate	4.77	43	88	142.954	ug/l #	51
20) Methylene Chloride	5.11	84	55	49.095	ug/l #	7
22) Diisopropyl ether	6.11	45	63	18.570	ug/l #	37
23) Vinyl Acetate	6.48	43	60	31.177	ug/l #	72
25) 2-Butanone	7.28	43	56	186.322	ug/l #	49
27) cis-1,2-Dichloroethene	7.24	96	67	49.969	ug/l #	1
29) Tetrahydrofuran	7.54	42	76	406.619	ug/l #	33
37) Ethyl Acetate	7.28	43	56	42.074	ug/l #	70
41) Methacrylonitrile	7.54	41	61	78.992	ug/l #	24
43) Isopropyl Acetate	8.46	43	79	29.820	ug/l #	52
48) Methyl methacrylate	9.45	41	61	48.902	ug/l #	15
51) 4-Methyl-2-Pentanone	10.18	43	92	70.259	ug/l #	37
58) 2-Chloroethyl Vinyl ether	9.96	63	68	86.132	ug/l #	45
59) 2-Hexanone	11.07	43	56	63.010	ug/l #	26

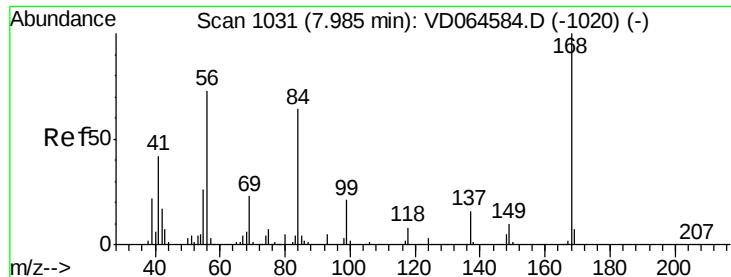
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

Instrument :

MSVOA_D

ClientSampleId :

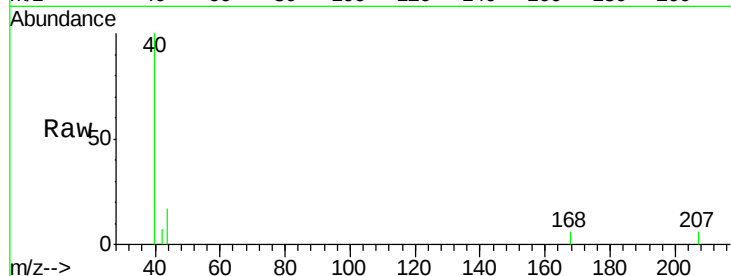
SB-5-(8-10)

Tgt Ion:168 Resp: 124

Ion Ratio Lower Upper

168 100

99 0.0 41.8 62.6#



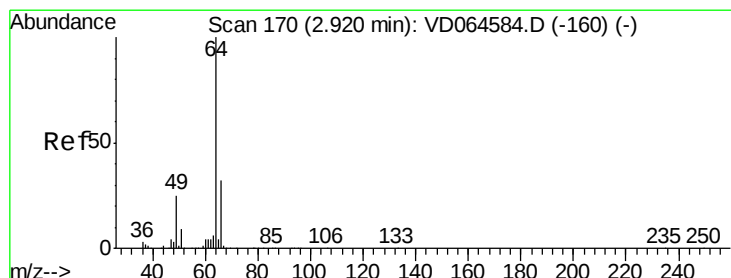
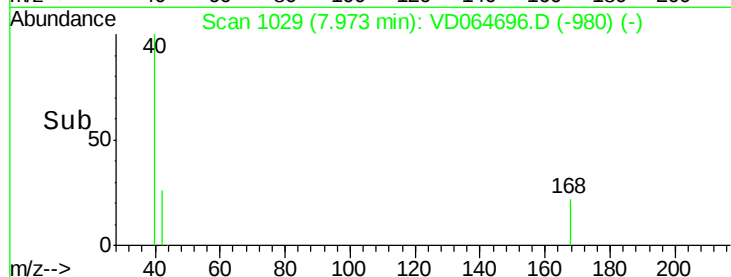
Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

7.98

Time-->



#6

Chloroethane

Concen: 52.676 ug/l

RT: 2.81 min Scan# 151

Delta R.T. -0.11 min

Lab File: VD064696.D

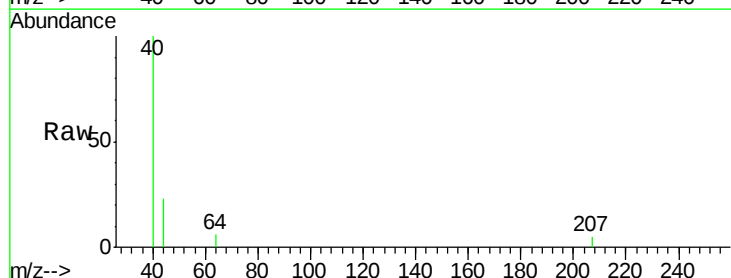
Acq: 31 Dec 2019 15:46

Tgt Ion: 64 Resp: 58

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#



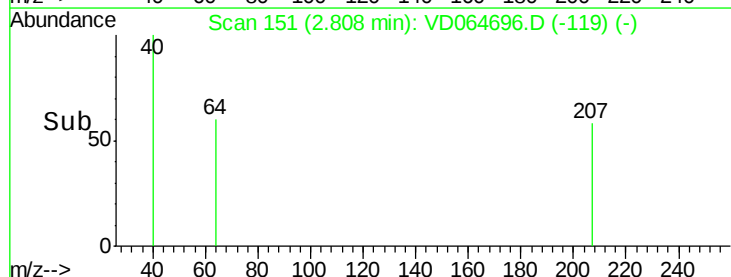
Abundance Ion 63.90 (63.60 to 64.60): VDC

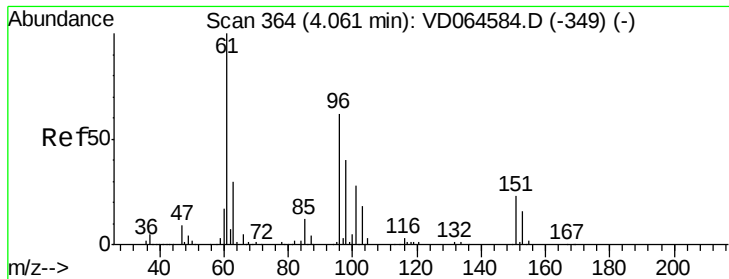
Ion 65.90 (65.60 to 66.60): VDC

2.81

2.82

Time-->





#12

1,1-Dichloroethene

Concen: 51.332 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.24 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

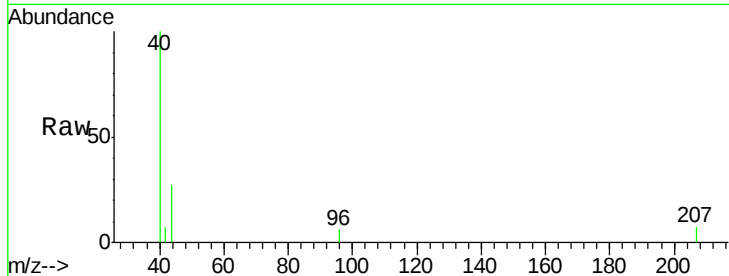
Instrument :

MSVOA_D

ClientSampleId :

SB-5-(8-10)

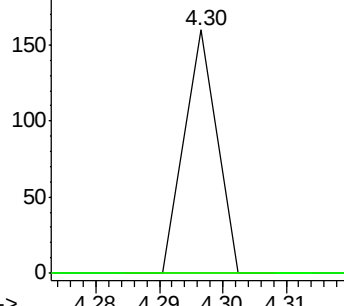
Tgt Ion:	96	Resp:	56
Ion	Ratio	Lower	Upper
96	100		
61	0.0	129.4	194.0#
98	0.0	51.4	77.0#



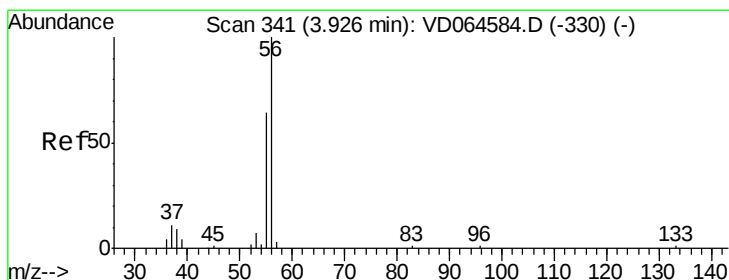
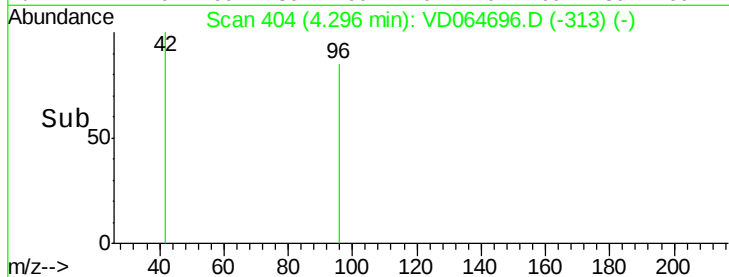
Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



Time-->



#13

Acrolein

Concen: 687.033 ug/l

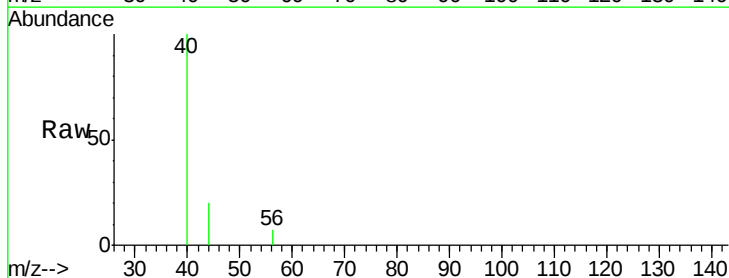
RT: 3.98 min Scan# 351

Delta R.T. 0.06 min

Lab File: VD064696.D

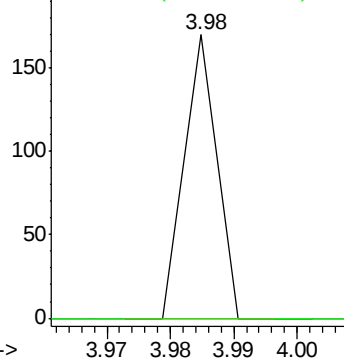
Acq: 31 Dec 2019 15:46

Tgt Ion:	56	Resp:	60
Ion	Ratio	Lower	Upper
56	100		
55	0.0	56.7	85.1#

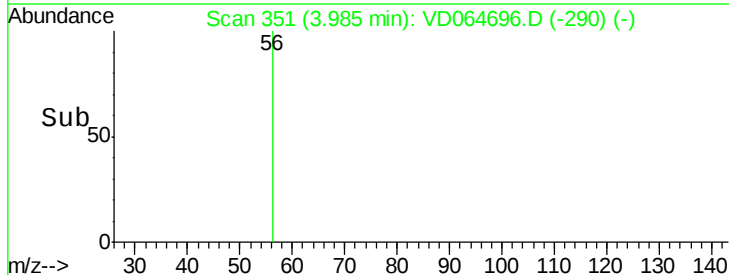


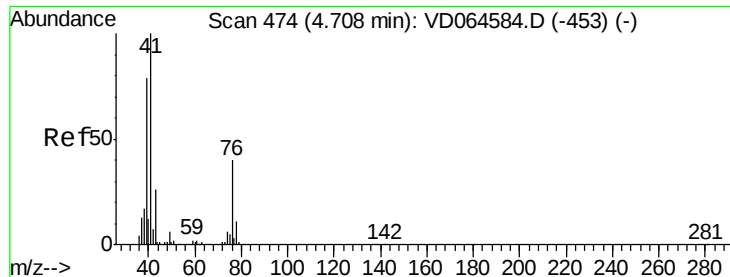
Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time-->

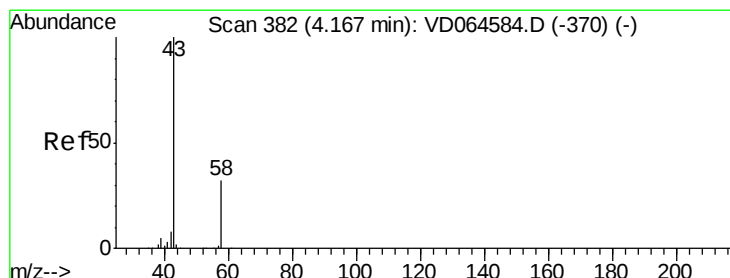
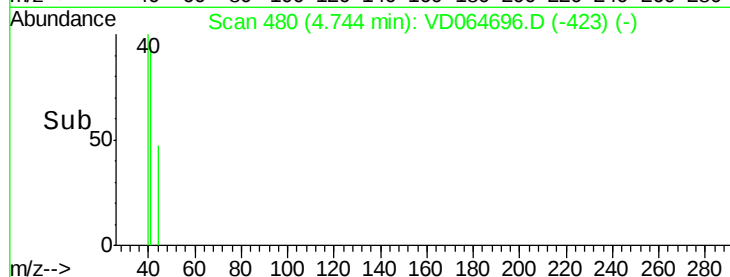
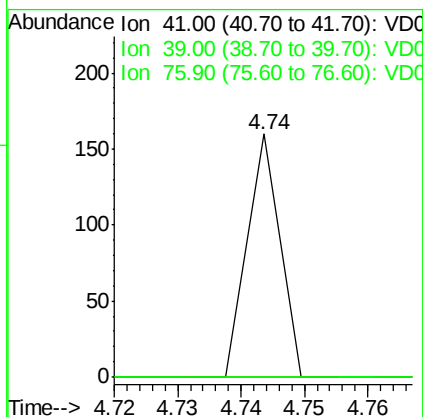
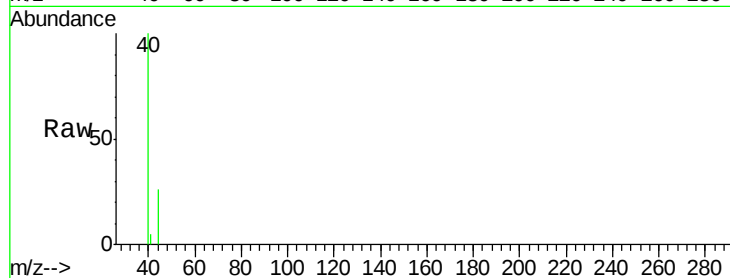




#14
 Allyl chloride
 Concen: 32.924 ug/l
 RT: 4.74 min Scan# 480
 Delta R.T. 0.04 min
 Lab File: VD064696.D
 Acq: 31 Dec 2019 15:46

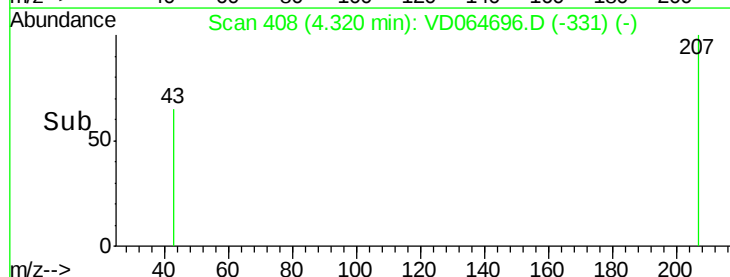
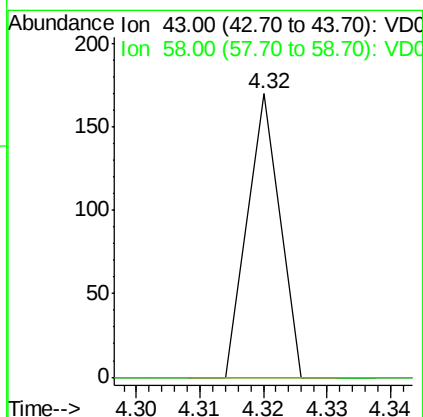
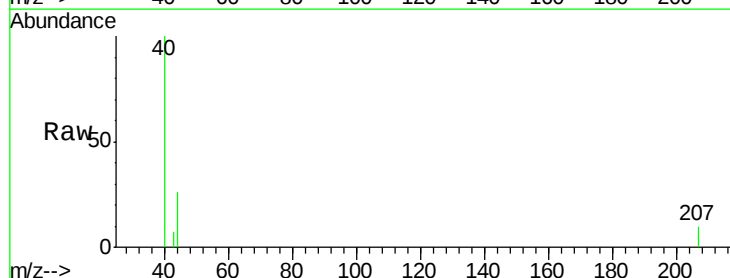
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-5-(8-10)

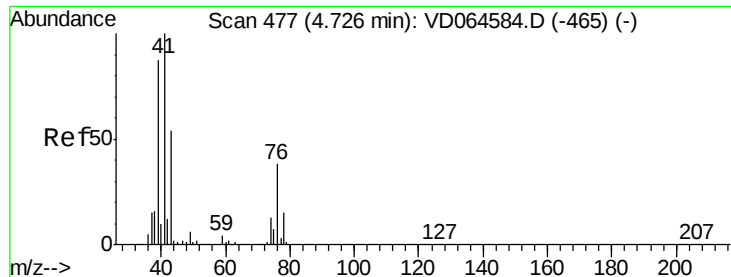
Tgt Ion	Ratio	Lower	Upper
41	100		
39	0.0	62.3	93.5#
76	0.0	29.7	44.5#



#16
 Acetone
 Concen: 261.962 ug/l
 RT: 4.32 min Scan# 408
 Delta R.T. 0.15 min
 Lab File: VD064696.D
 Acq: 31 Dec 2019 15:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.8	38.6#





#18

Methyl Acetate

Concen: 142.954 ug/l

RT: 4.77 min Scan# 484

Delta R.T. 0.04 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

Instrument :

MSVOA_D

ClientSampleId :

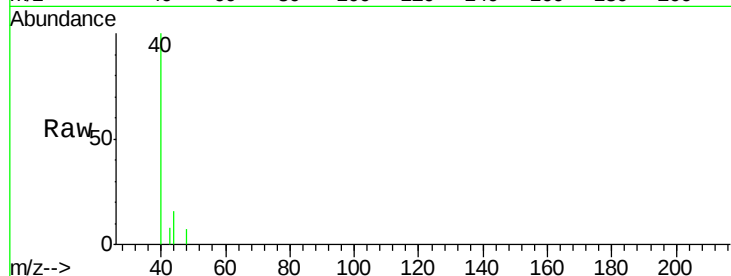
SB-5-(8-10)

Tgt Ion: 43 Resp: 88

Ion Ratio Lower Upper

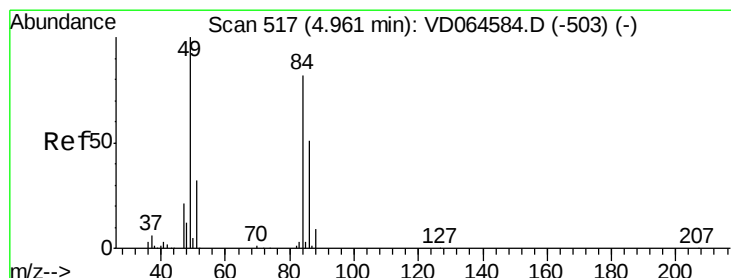
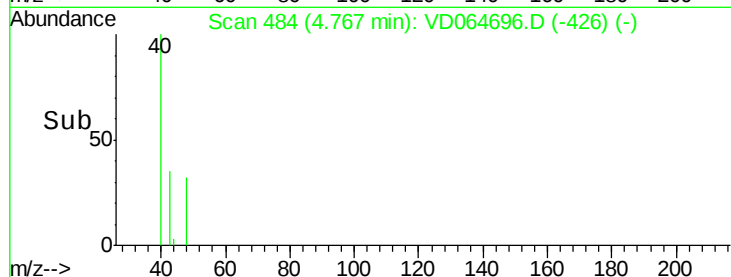
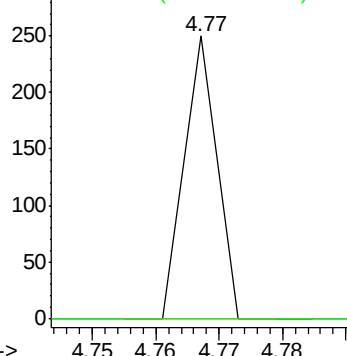
43 100

74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC



#20

Methylene Chloride

Concen: 49.095 ug/l

RT: 5.11 min Scan# 543

Delta R.T. 0.15 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

Tgt Ion: 84 Resp: 55

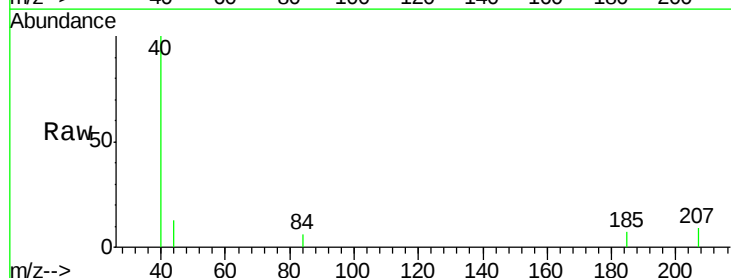
Ion Ratio Lower Upper

84 100

49 0.0 97.2 145.8#

51 0.0 31.4 47.0#

86 0.0 49.3 73.9#

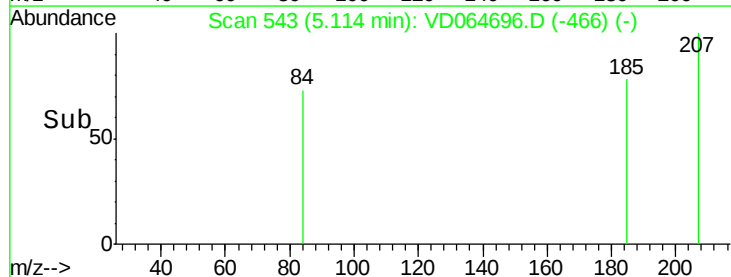
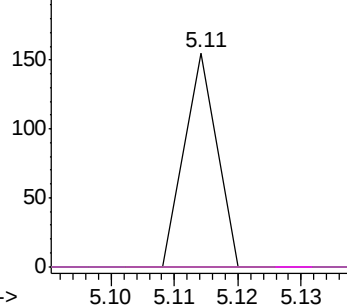


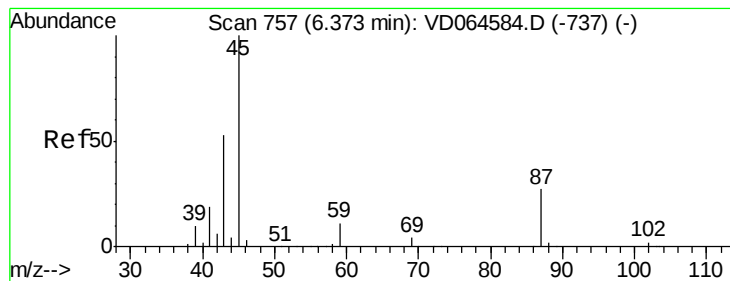
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#22

Diisopropyl ether

Concen: 18.570 ug/l

RT: 6.11 min Scan# 713

Delta R.T. -0.26 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

Instrument :

MSVOA_D

ClientSampleId :

SB-5-(8-10)

Tgt Ion: 45 Resp: 63

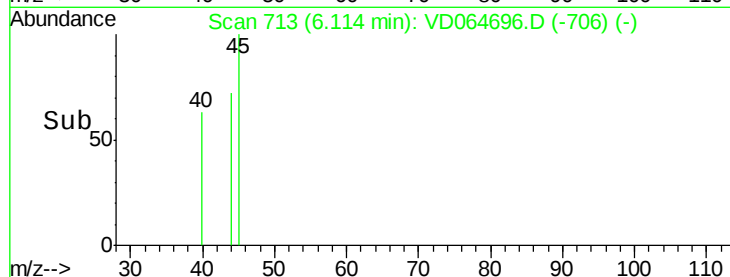
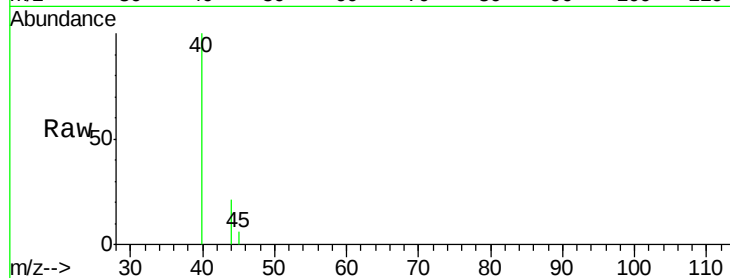
Ion Ratio Lower Upper

45 100

43 0.0 43.2 64.8#

87 0.0 21.9 32.9#

59 0.0 9.0 13.4#

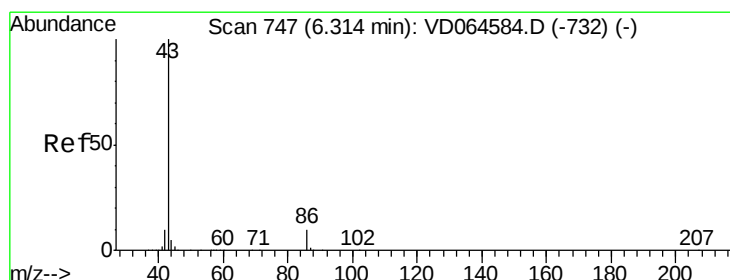
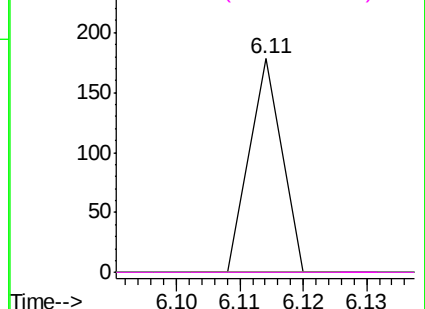


Abundance Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC



#23

Vinyl Acetate

Concen: 31.177 ug/l

RT: 6.48 min Scan# 776

Delta R.T. 0.17 min

Lab File: VD064696.D

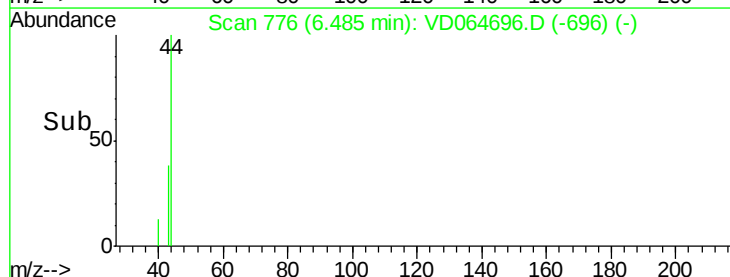
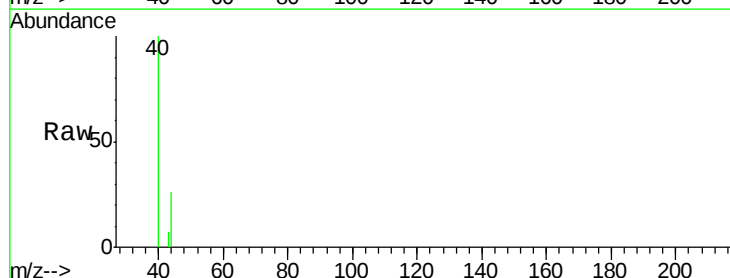
Acq: 31 Dec 2019 15:46

Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

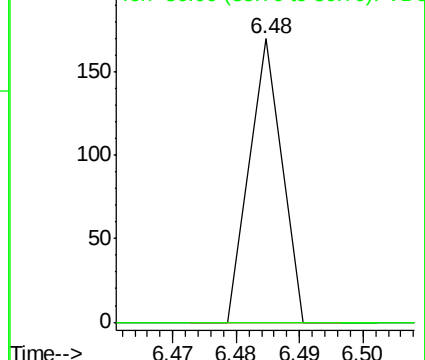
43 100

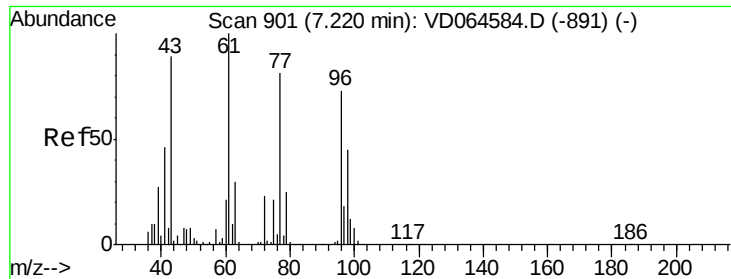
86 0.0 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC





#25

2-Butanone

Concen: 186.322 ug/l

RT: 7.28 min Scan# 912

Delta R.T. 0.06 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

Instrument :

MSVOA_D

ClientSampleId :

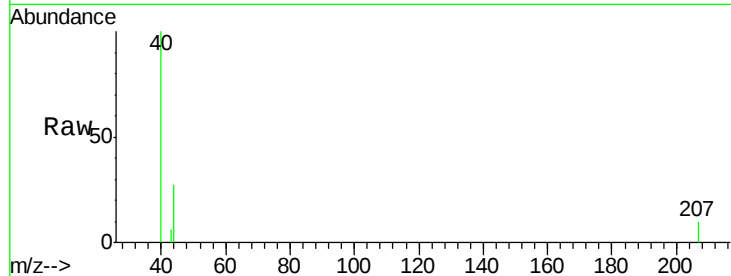
SB-5-(8-10)

Tgt Ion: 43 Resp: 56

Ion Ratio Lower Upper

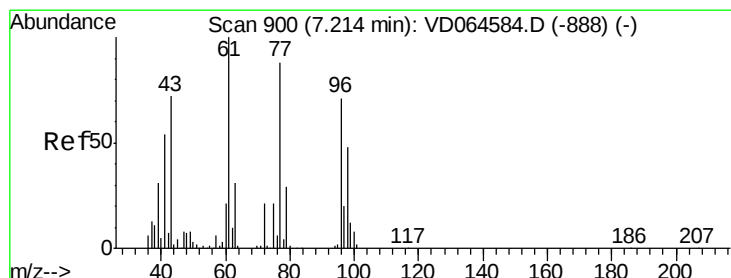
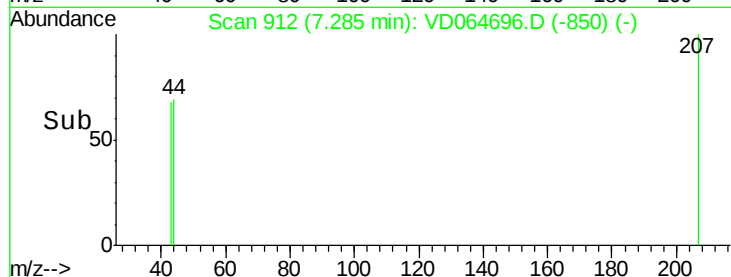
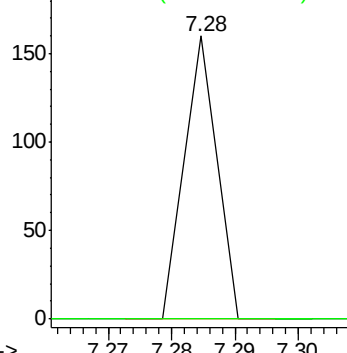
43 100

72 0.0 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 49.969 ug/l

RT: 7.24 min Scan# 904

Delta R.T. 0.02 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

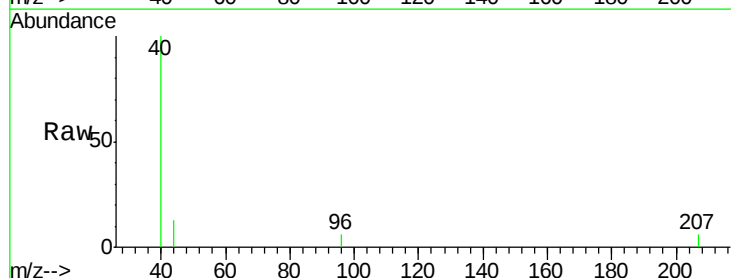
Tgt Ion: 96 Resp: 67

Ion Ratio Lower Upper

96 100

61 0.0 0.0 282.6

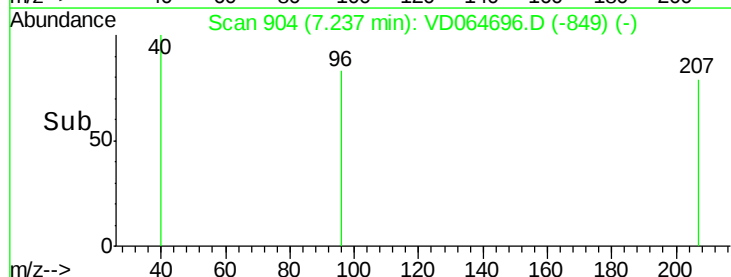
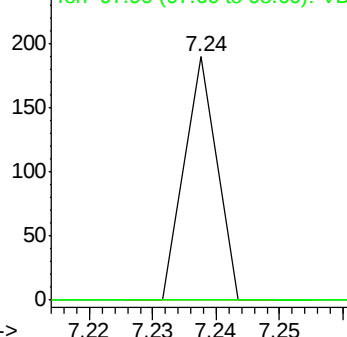
98 0.0 0.0 130.8

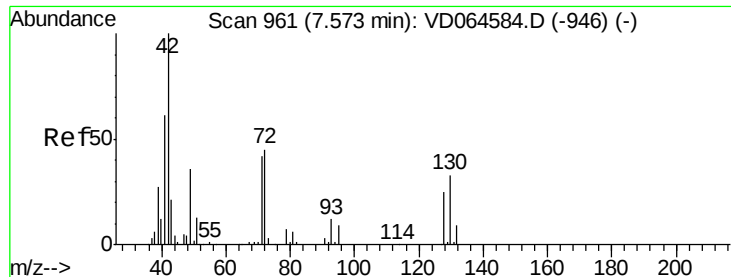


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#29

Tetrahydrofuran

Concen: 406.619 ug/l

RT: 7.54 min Scan# 955

Delta R.T. -0.04 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

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SB-5-(8-10)

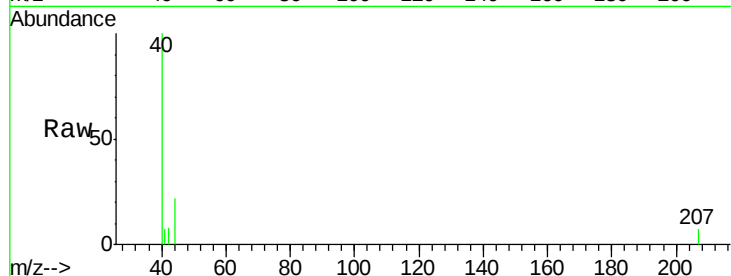
Tgt Ion: 42 Resp: 76

Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.4#

71 0.0 32.9 49.3#

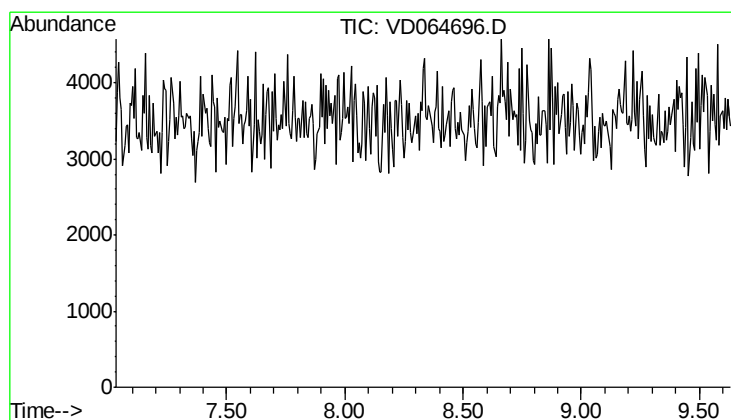
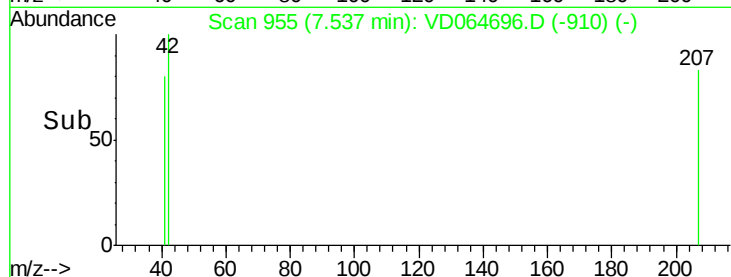
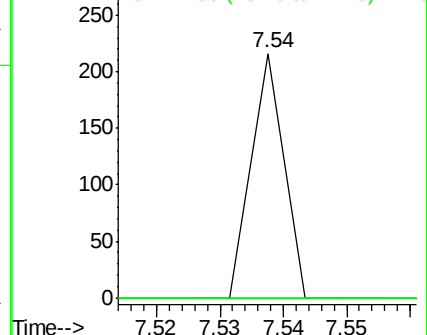


Abundance

Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.33 min

Lab File: VD064696.D

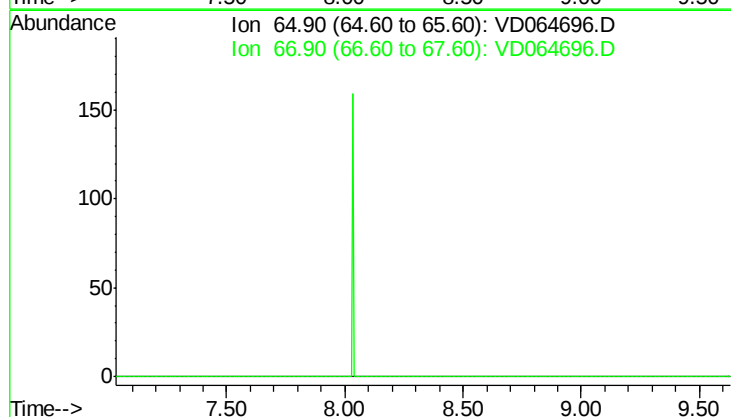
Acq: 31 Dec 2019 15:46

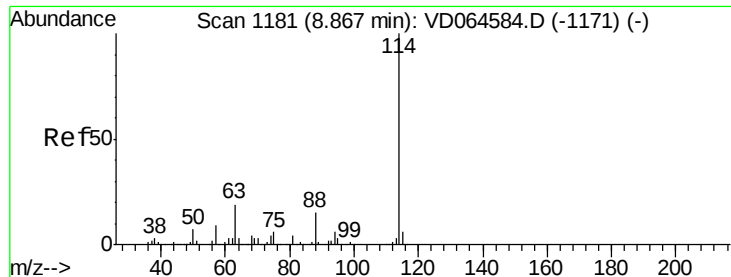
Tgt Ion: 65

Sig Exp Ratio

65 100

67 53.1

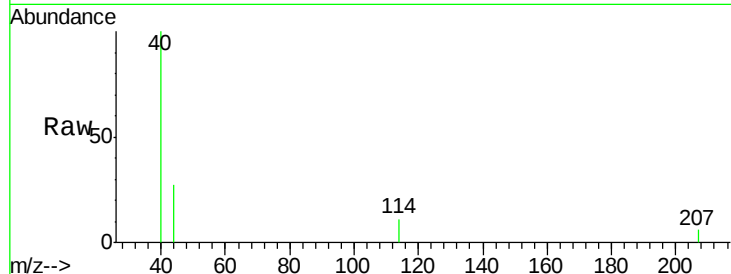




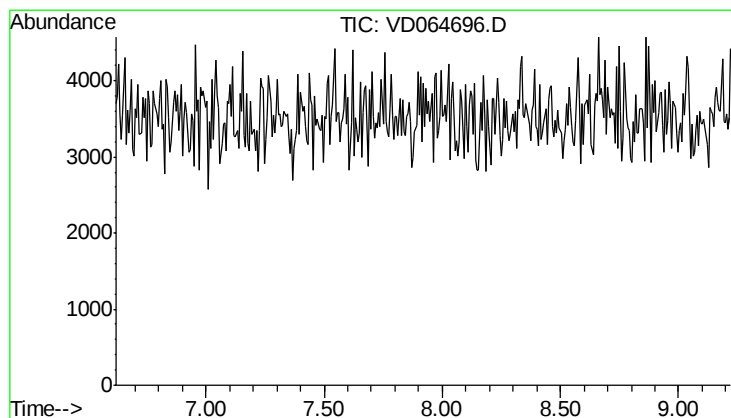
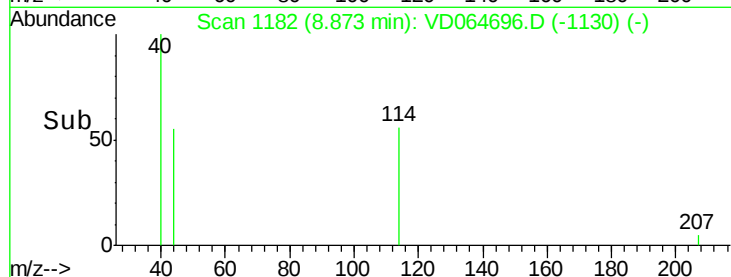
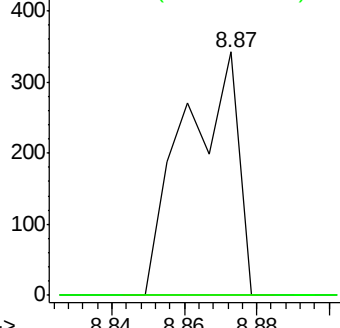
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1182
 Delta R.T. 0.01 min
 Lab File: VD064696.D
 Acq: 31 Dec 2019 15:46

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-5-(8-10)

Tgt Ion: 114 Resp: 352
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 38.0
 88 0.0 0.0 29.2



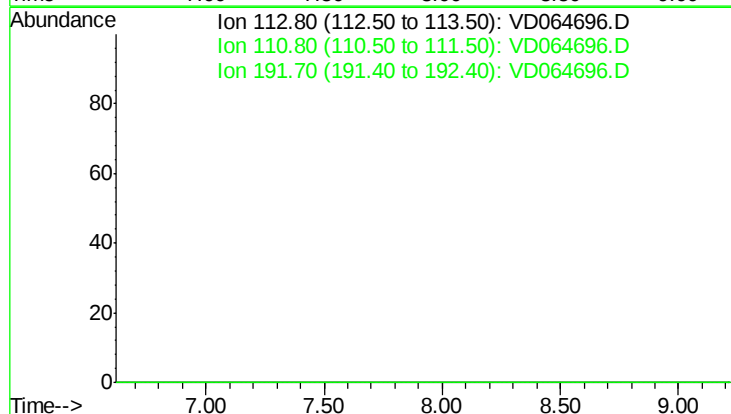
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VDC
 Ion 87.90 (87.60 to 88.60): VDC

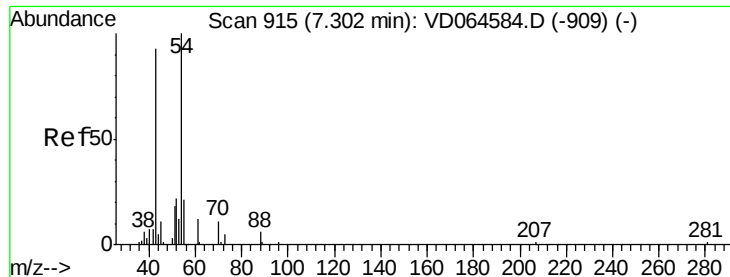


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.92 min

Lab File: VD064696.D
 Acq: 31 Dec 2019 15:46

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 100.8
 192 22.4





#37

Ethyl Acetate

Concen: 42.074 ug/l

RT: 7.28 min Scan# 912

Delta R.T. -0.02 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

Instrument :

MSVOA_D

ClientSampleId :

SB-5-(8-10)

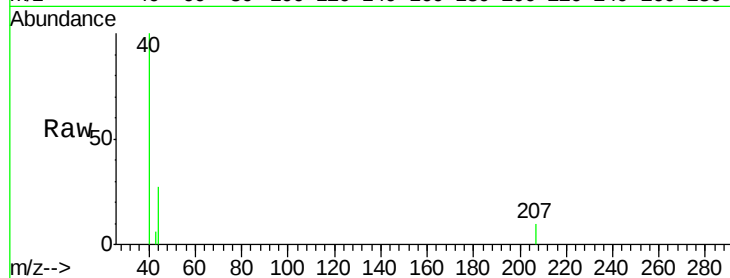
Tgt Ion: 43 Resp: 56

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

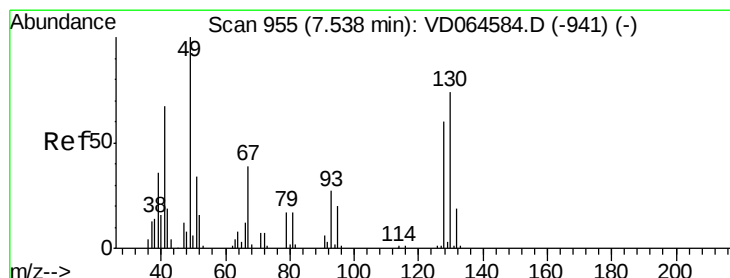
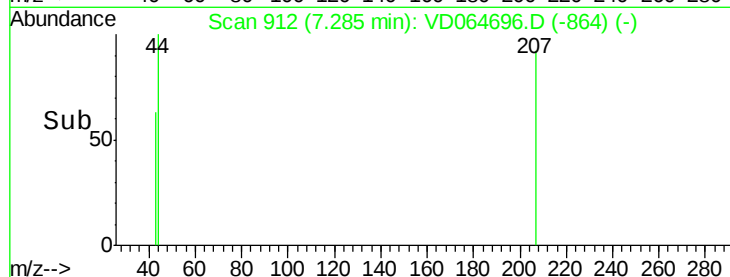
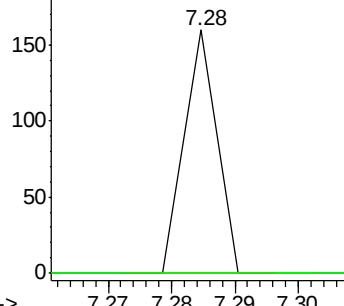
70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC



#41

Methacrylonitrile

Concen: 78.992 ug/l

RT: 7.54 min Scan# 955

Delta R.T. -0.00 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

Tgt Ion: 41 Resp: 61

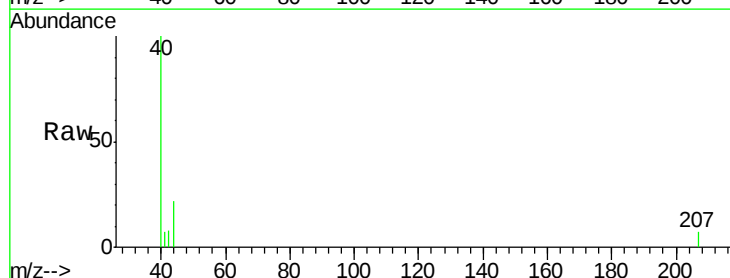
Ion Ratio Lower Upper

41 100

39 0.0 46.7 70.1#

67 0.0 52.5 78.7#

52 0.0 24.1 36.1#

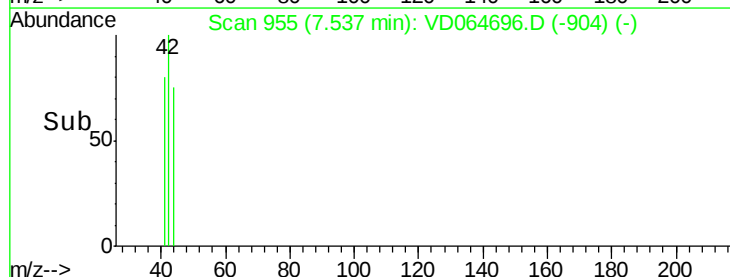
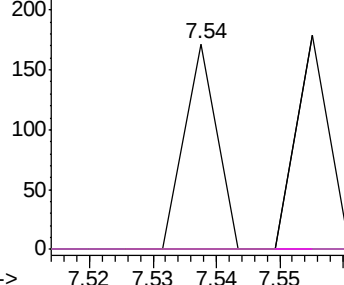


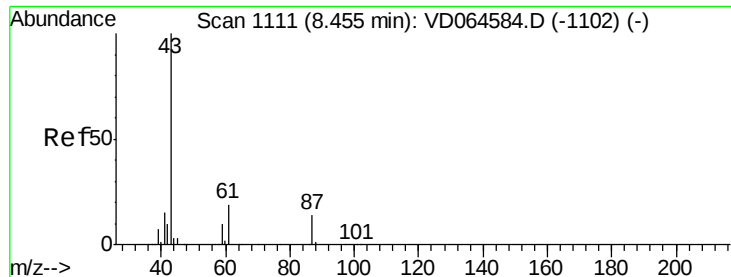
Abundance Ion 41.00 (40.70 to 41.70): VDC

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





#43

Isopropyl Acetate

Concen: 29.820 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

Instrument :

MSVOA_D

ClientSampleId :

SB-5-(8-10)

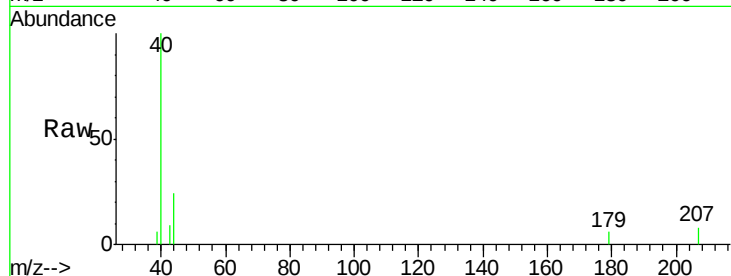
Tgt Ion: 43 Resp: 79

Ion Ratio Lower Upper

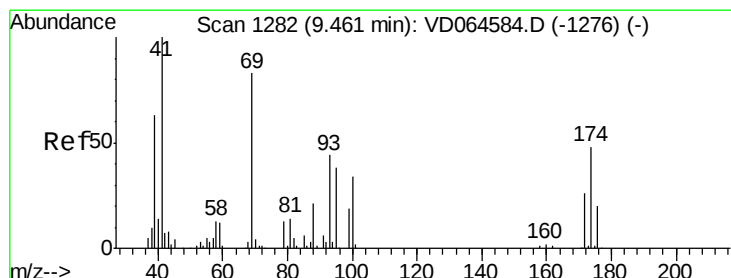
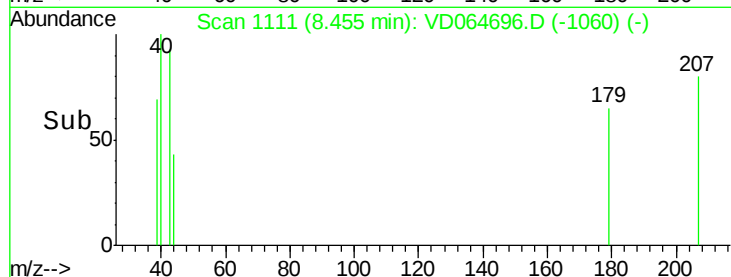
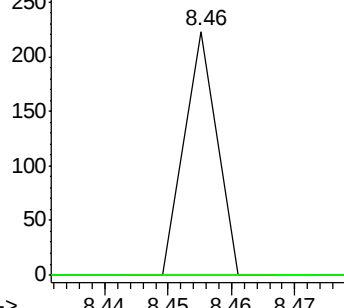
43 100

61 0.0 23.7 35.5#

87 0.0 10.5 15.7#



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



#48

Methyl methacrylate

Concen: 48.902 ug/l

RT: 9.45 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

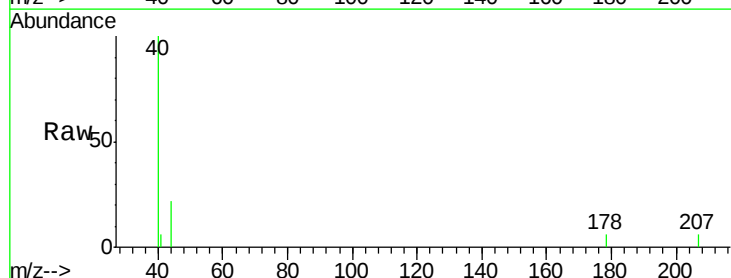
Tgt Ion: 41 Resp: 61

Ion Ratio Lower Upper

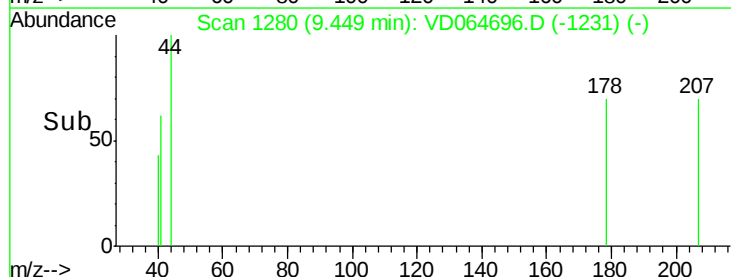
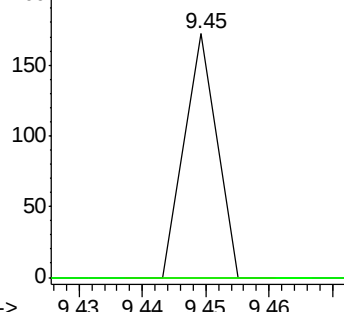
41 100

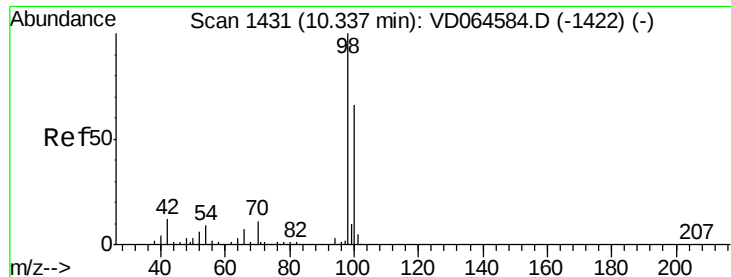
69 0.0 63.0 94.6#

39 0.0 47.4 71.2#



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 39.00 (38.70 to 39.70): VDC





#50

Toluene-d8

Concen: 76.896 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

Instrument :

MSVOA_D

ClientSampleId :

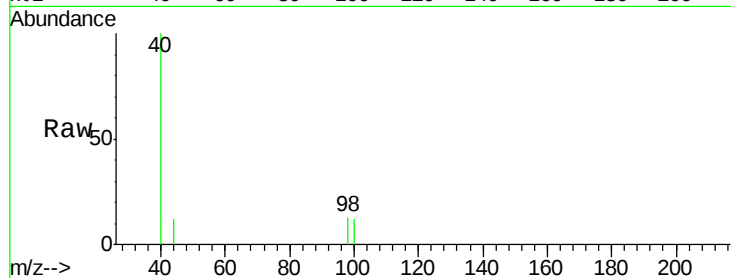
SB-5-(8-10)

Tgt Ion: 98 Resp: 636

Ion Ratio Lower Upper

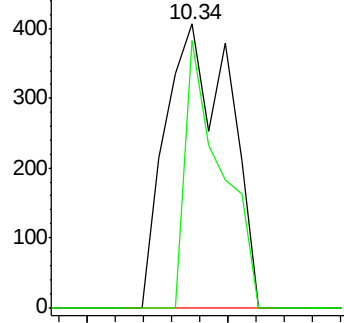
98 100

100 53.5 51.7 77.5

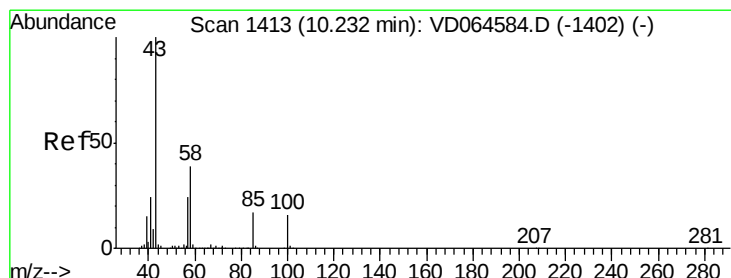
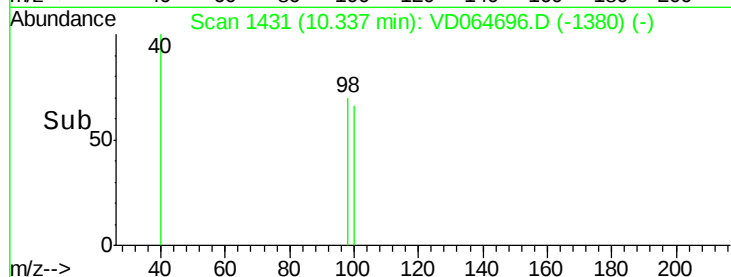


Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



Time-->



#51

4-Methyl-2-Pentanone

Concen: 70.259 ug/l

RT: 10.18 min Scan# 1404

Delta R.T. -0.05 min

Lab File: VD064696.D

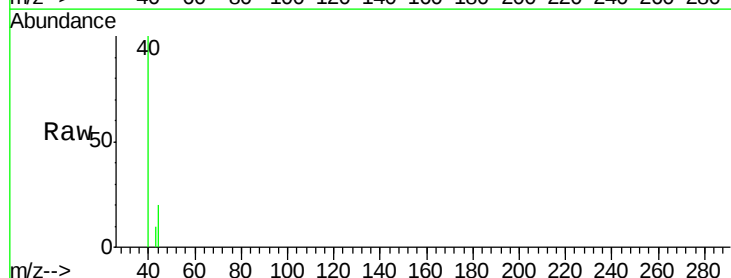
Acq: 31 Dec 2019 15:46

Tgt Ion: 43 Resp: 92

Ion Ratio Lower Upper

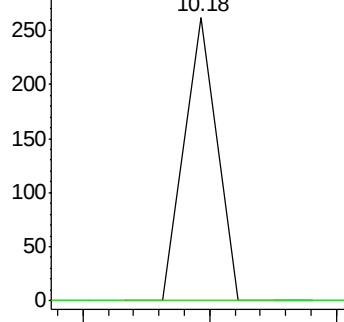
43 100

58 0.0 30.2 45.2#

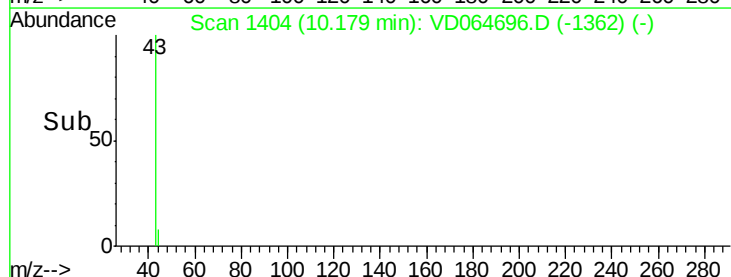


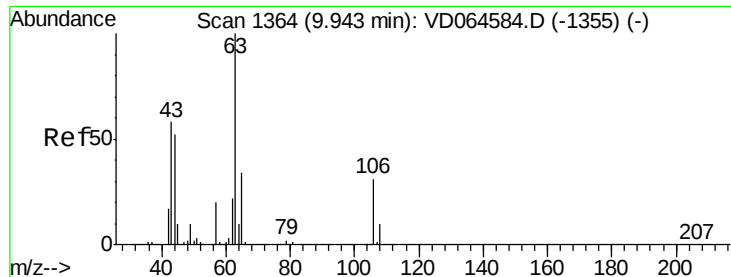
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



Time-->

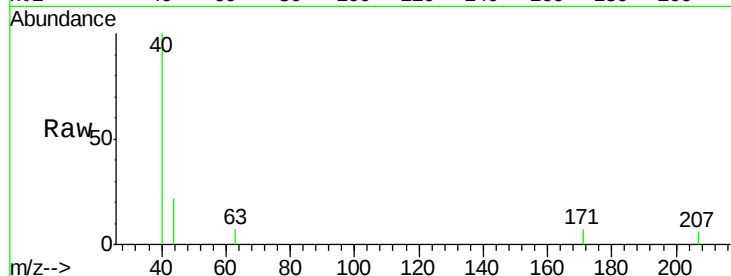




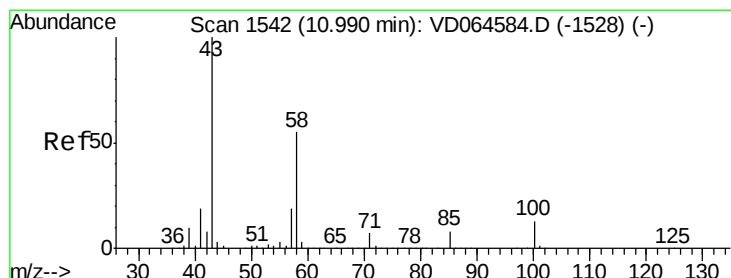
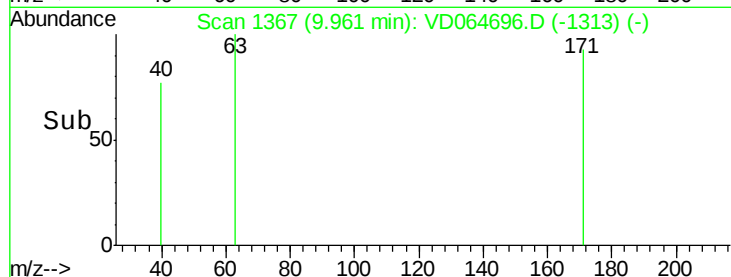
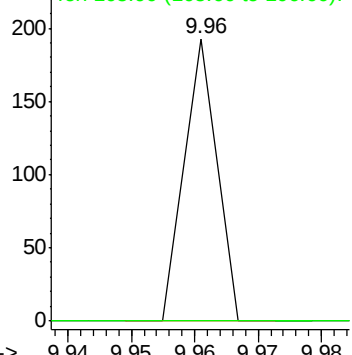
#58
 2-Chloroethyl Vinyl ether
 Concen: 86.132 ug/l
 RT: 9.96 min Scan# 1367
 Delta R.T. 0.02 min
 Lab File: VD064696.D
 Acq: 31 Dec 2019 15:46

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-5-(8-10)

Tgt Ion: 63 Resp: 68
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.8 35.8#

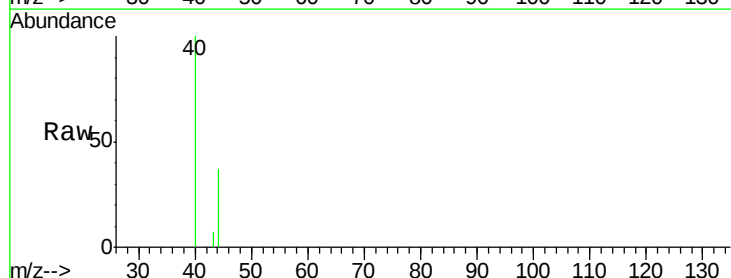


Abundance Ion 62.90 (62.60 to 63.60): VDC
 Ion 105.90 (105.60 to 106.60): VDC

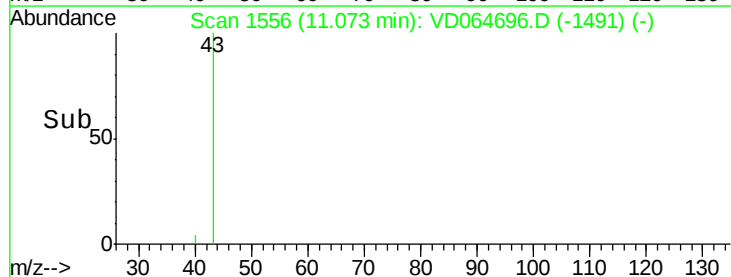
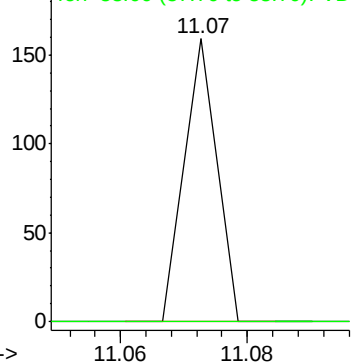


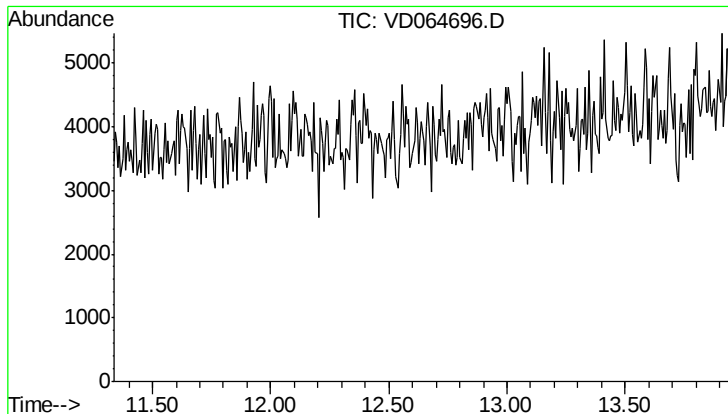
#59
 2-Hexanone
 Concen: 63.010 ug/l
 RT: 11.07 min Scan# 1556
 Delta R.T. 0.08 min
 Lab File: VD064696.D
 Acq: 31 Dec 2019 15:46

Tgt Ion: 43 Resp: 56
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.4 79.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 12.64 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

Tgt Ion: 95

Sig Exp Ratio

95 100

174 96.6

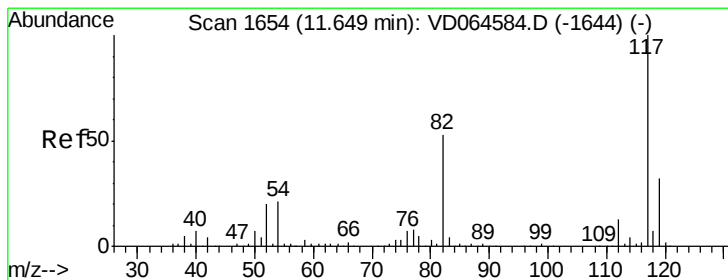
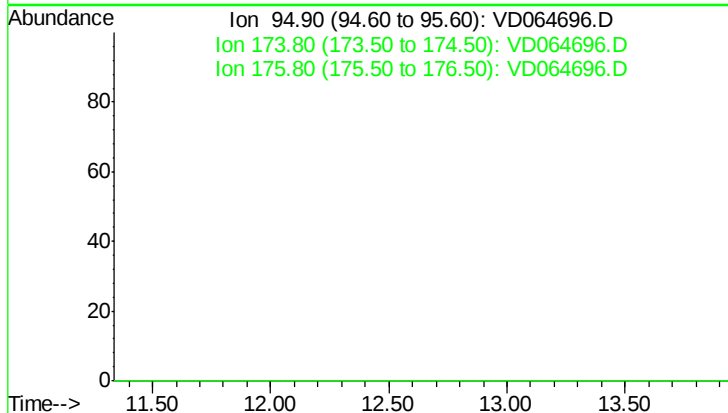
176 92.1

Instrument :

MSVOA_D

ClientSampleId :

SB-5-(8-10)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD064696.D

Acq: 31 Dec 2019 15:46

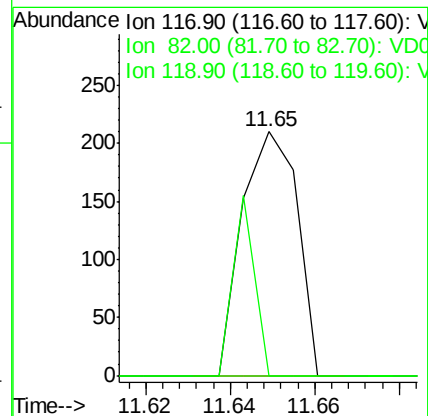
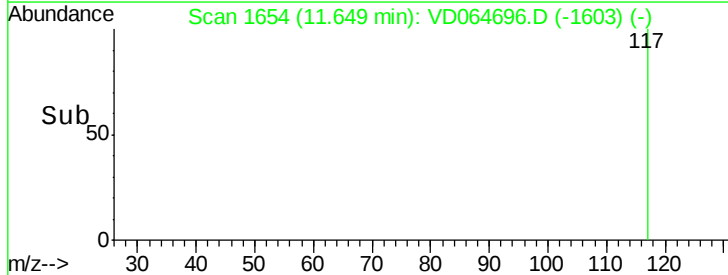
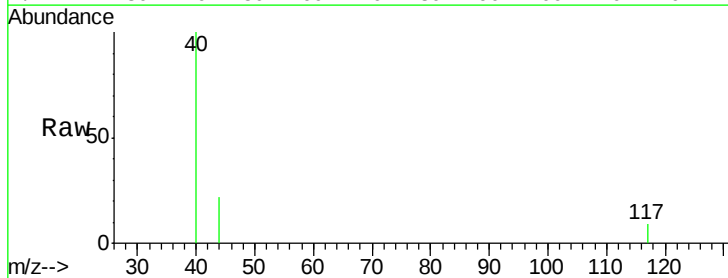
Tgt Ion: 117 Resp: 191

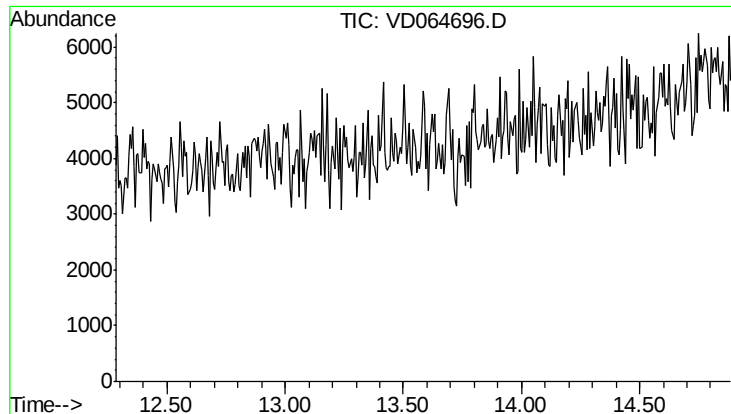
Ion Ratio Lower Upper

117 100

82 0.0 42.2 63.4#

119 0.0 26.0 39.0#





#72
1,4-Dichlorobenzene-d4
Concen: 0.000 ug/l
Expected RT: 13.58 min
Lab File: VD064696.D
Acq: 31 Dec 2019 15:46

Instrument :
MSVOA_D
ClientSampleId :
SB-5-(8-10)

Tgt	Ion	
	152	
Sig	Exp	Ratio
152	100	
115	55.6	
150	175.7	

