

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD123119\
 Data File : VD064695.D
 Acq On : 31 Dec 2019 15:17
 Operator : VA/SY
 Sample : K6464-01
 Misc : 4.62G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4-(5-6)

Quant Time: Jan 01 00:46:32 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	7.98	168	8894	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	13902	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	11899	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	5590	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	5525	70.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	140.90%	
35) Dibromofluoromethane	7.93	113	4874	57.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.30%	
50) Toluene-d8	10.34	98	15134	46.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.66%	
62) 4-Bromofluorobenzene	12.63	95	4595	44.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.98%	

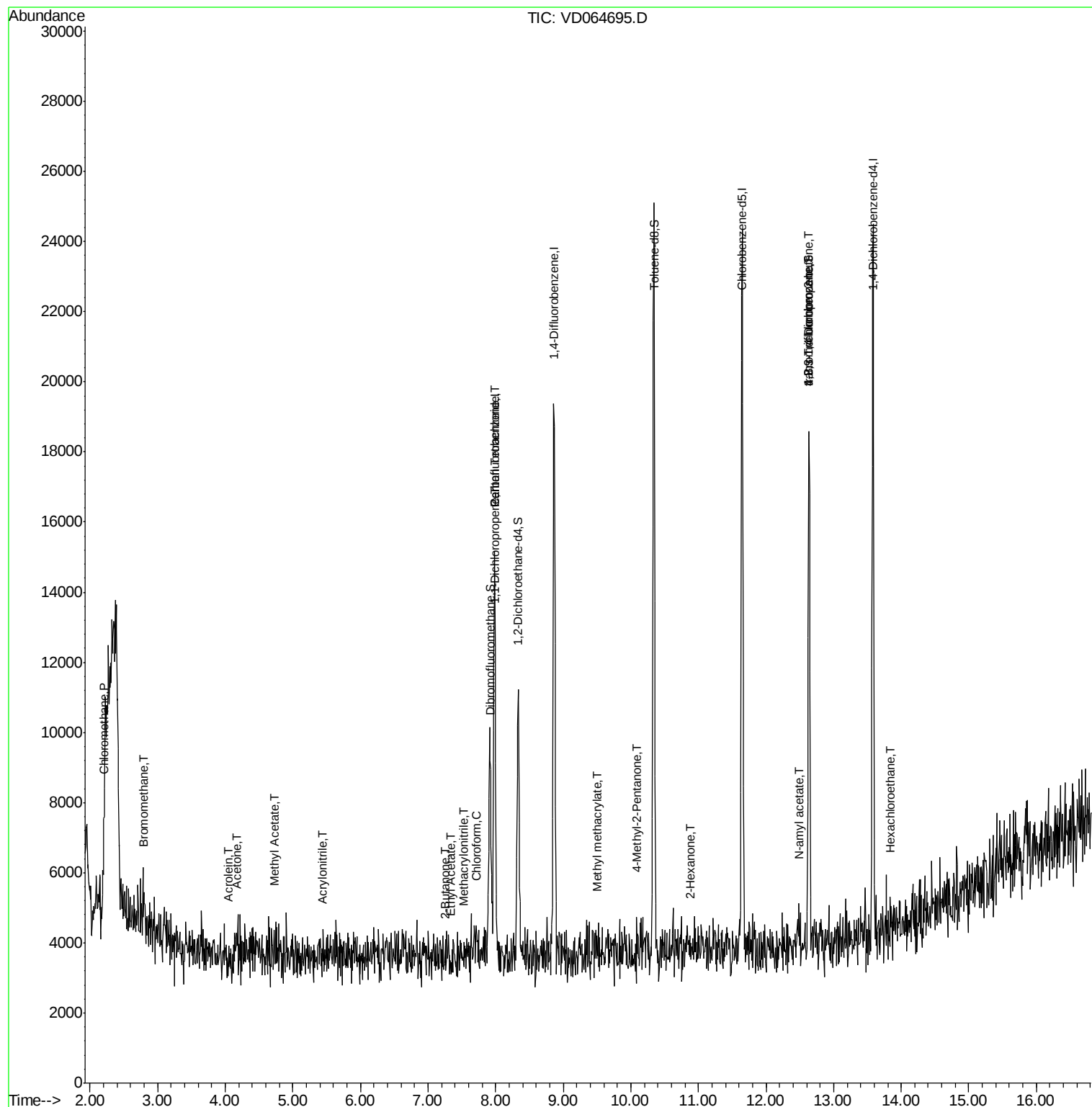
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	274	2.834	ug/l #	58
5) Bromomethane	2.80	94	246	2.871	ug/l #	63
13) Acrolein	4.05	56	56	8.940	ug/l #	14
15) Acrylonitrile	5.43	53	68	4.142	ug/l #	17
16) Acetone	4.16	43	541	33.307	ug/l #	42
18) Methyl Acetate	4.72	43	81	1.835	ug/l #	51
20) Methylene Chloride	4.95	84	79	Below Cal	#	7
25) 2-Butanone	7.24	43	63	2.922	ug/l #	49
30) Chloroform	7.72	83	182	1.187	ug/l #	18
36) 1,1-Dichloropropene	8.00	75	757	5.657	ug/l #	41
37) Ethyl Acetate	7.34	43	62	1.179	ug/l #	70
38) Carbon Tetrachloride	7.98	117	931	6.525	ug/l #	12
41) Methacrylonitrile	7.52	41	82	2.689	ug/l #	24
48) Methyl methacrylate	9.50	41	72	1.461	ug/l #	1
51) 4-Methyl-2-Pentanone	10.08	43	68	1.315	ug/l #	37
59) 2-Hexanone	10.88	43	68	1.937	ug/l #	26
74) N-amyl acetate	12.48	43	88	1.031	ug/l #	43
76) 1,2,3-Trichloropropane	12.63	75	2764	62.616	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	2764	130.959	ug/l #	10
90) Hexachloroethane	13.84	117	83	1.163	ug/l #	5

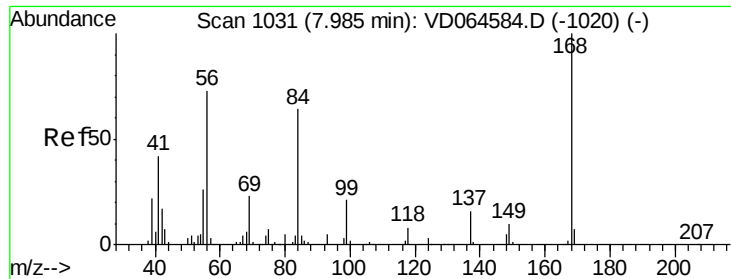
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
SB-4-(5-6)

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

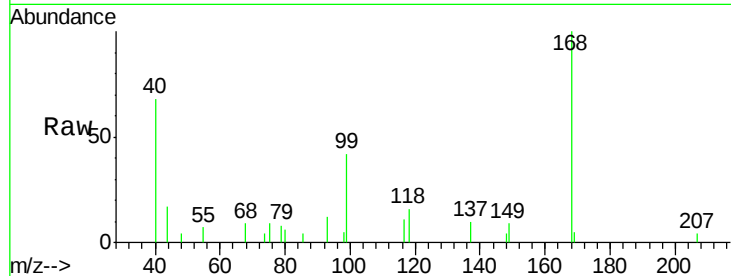
SB-4-(5-6)

Tgt Ion:168 Resp: 8894

Ion Ratio Lower Upper

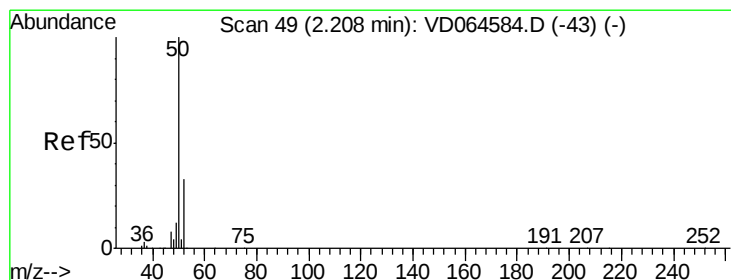
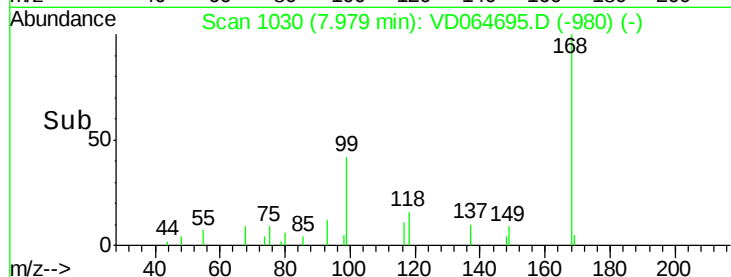
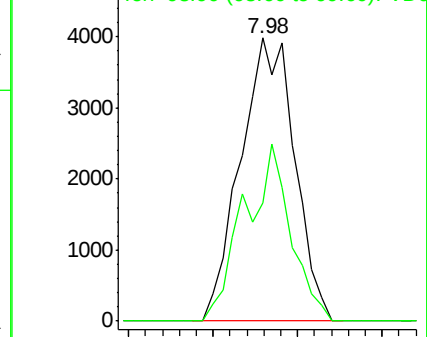
168 100

99 41.9 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 2.834 ug/l

RT: 2.20 min Scan# 47

Delta R.T. -0.01 min

Lab File: VD064695.D

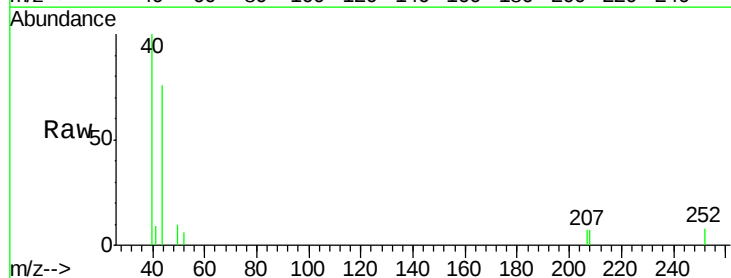
Acq: 31 Dec 2019 15:17

Tgt Ion: 50 Resp: 274

Ion Ratio Lower Upper

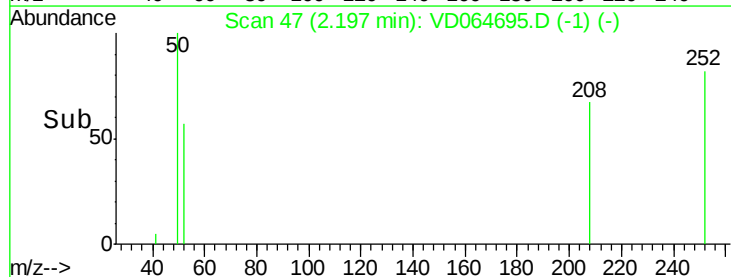
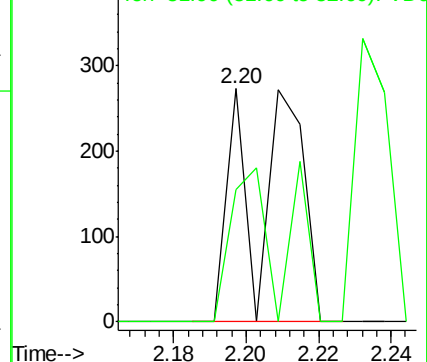
50 100

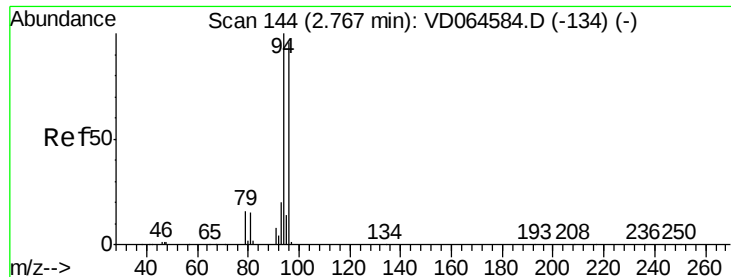
52 56.8 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 2.871 ug/l

RT: 2.80 min Scan# 149

Delta R.T. 0.03 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

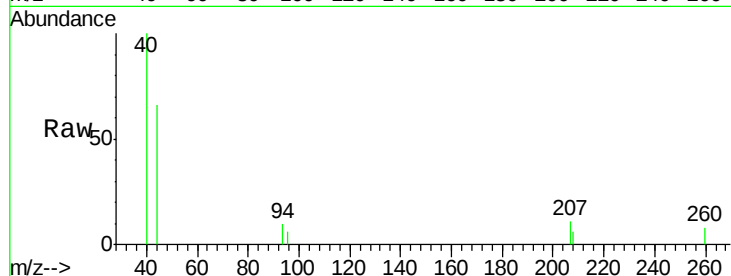
SB-4-(5-6)

Tgt Ion: 94 Resp: 246

Ion Ratio Lower Upper

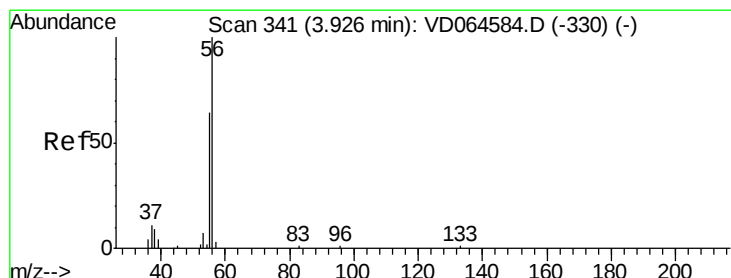
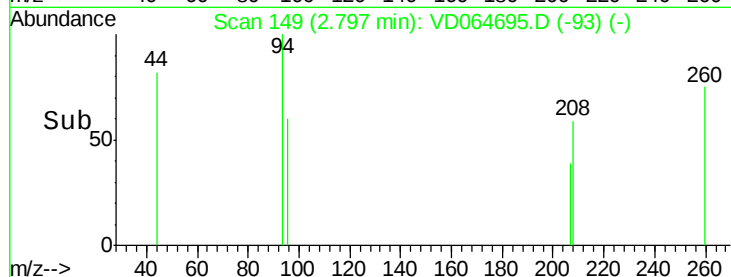
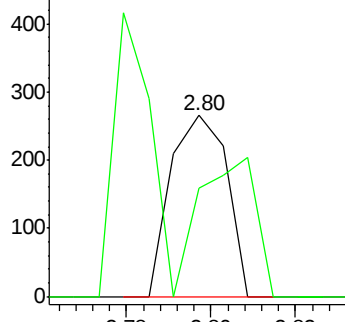
94 100

96 59.8 77.2 115.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#13

Acrolein

Concen: 8.940 ug/l

RT: 4.05 min Scan# 362

Delta R.T. 0.12 min

Lab File: VD064695.D

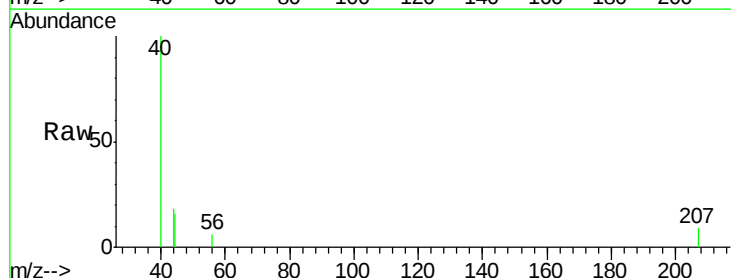
Acq: 31 Dec 2019 15:17

Tgt Ion: 56 Resp: 56

Ion Ratio Lower Upper

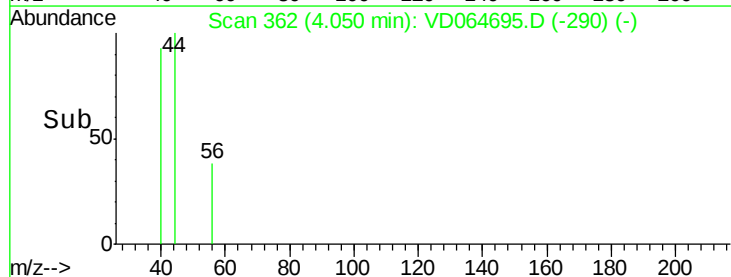
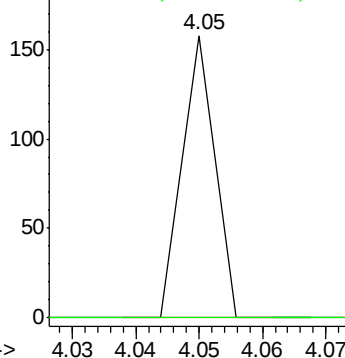
56 100

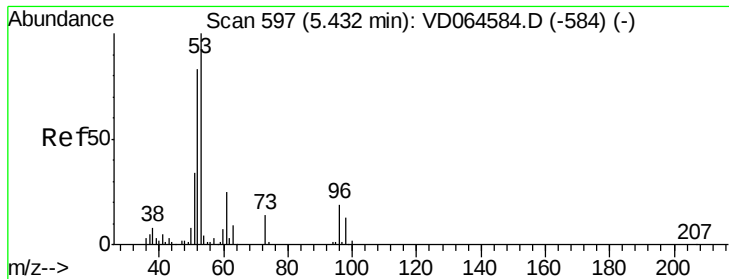
55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC





#15

Acrylonitrile

Concen: 4.142 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

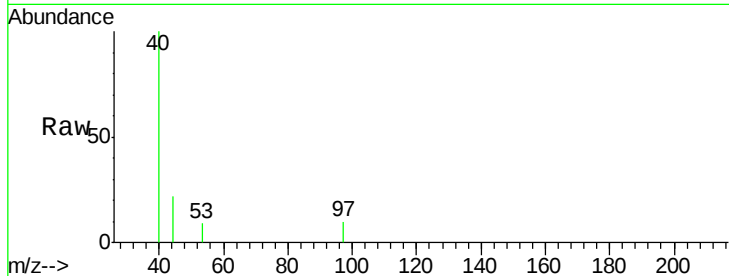
Instrument :

MSVOA_D

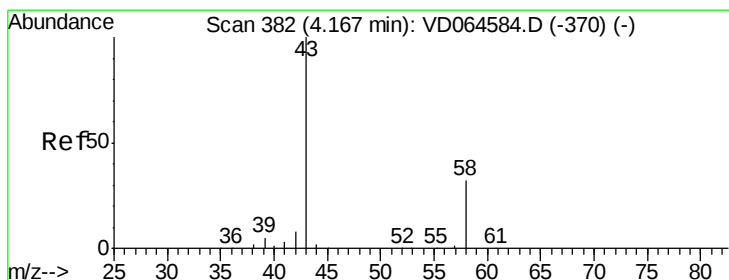
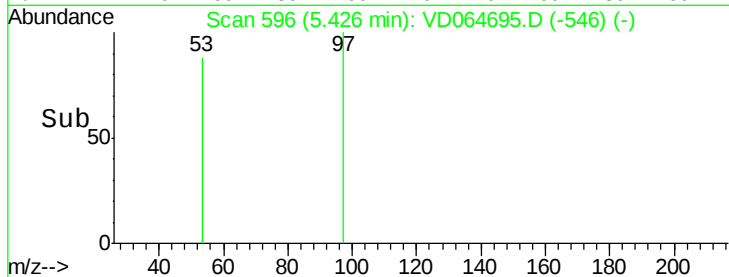
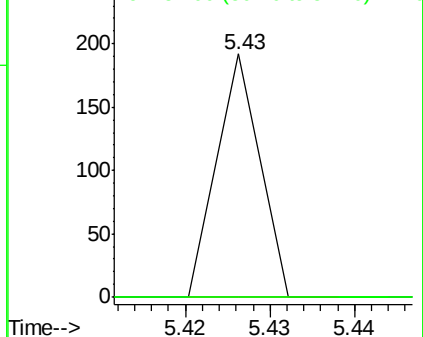
ClientSampleId :

SB-4-(5-6)

Tgt Ion:	53	Resp:	68
Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.2	99.2#
51	0.0	30.1	45.1#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 33.307 ug/l

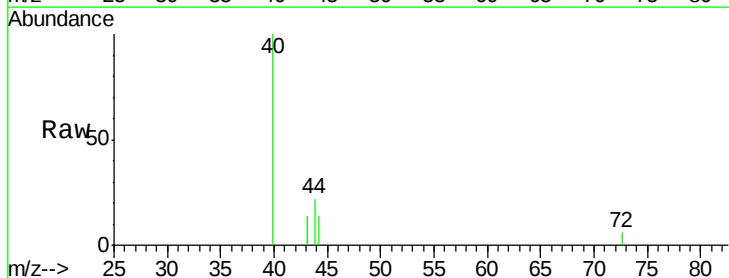
RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

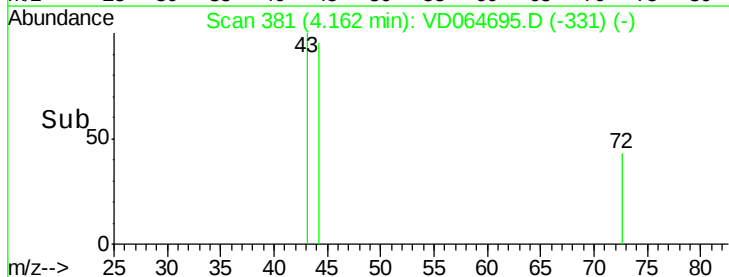
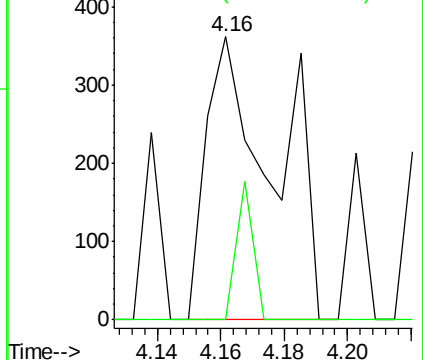
Lab File: VD064695.D

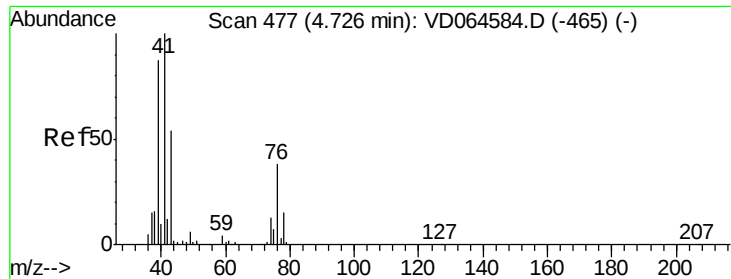
Acq: 31 Dec 2019 15:17

Tgt Ion:	43	Resp:	541
Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.8	38.6#



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

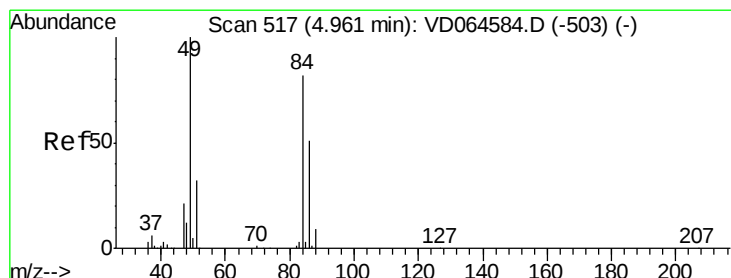
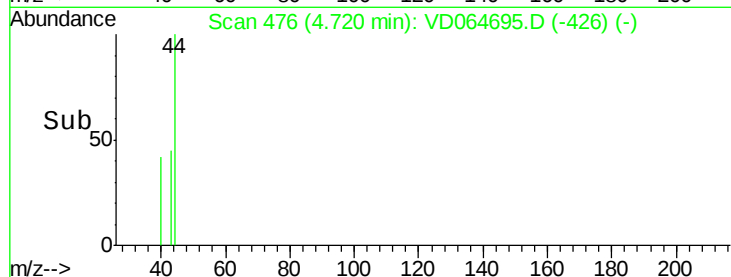
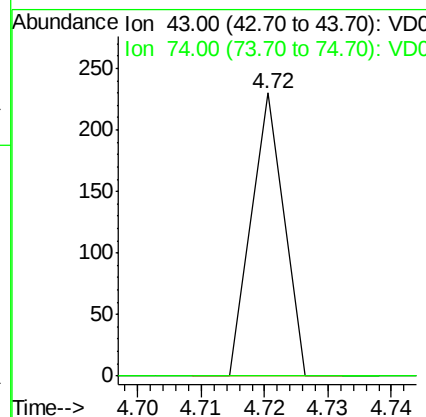
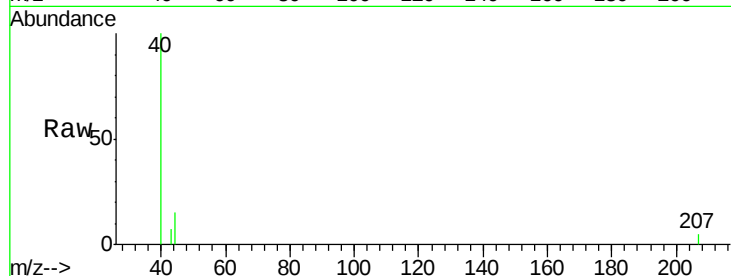




#18
Methyl Acetate
Concen: 1.835 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD064695.D
Acq: 31 Dec 2019 15:17

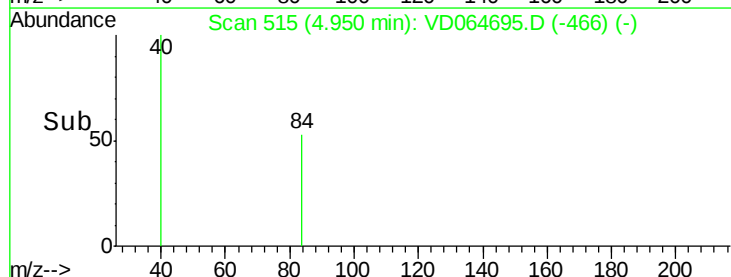
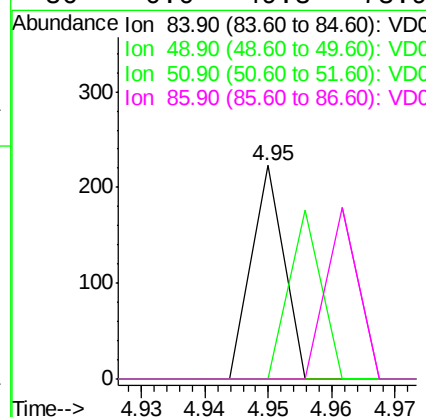
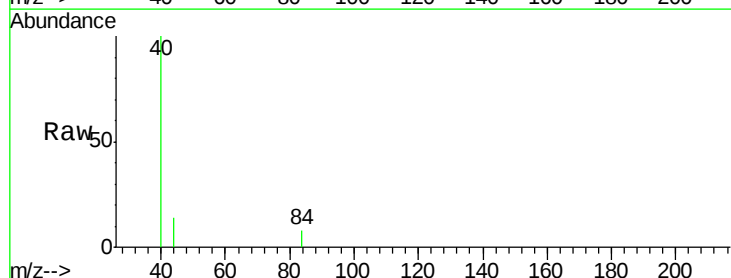
Instrument :
MSVOA_D
ClientSampleId :
SB-4-(5-6)

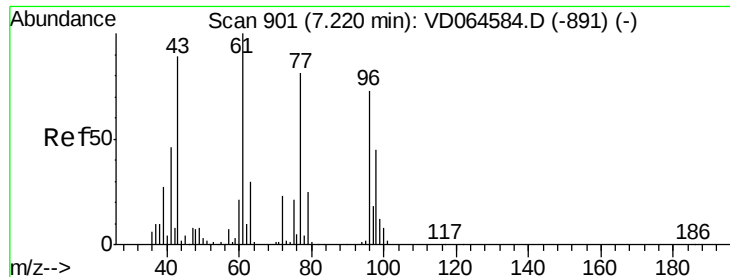
Tgt Ion: 43 Resp: 81
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.95 min Scan# 515
Delta R.T. -0.01 min
Lab File: VD064695.D
Acq: 31 Dec 2019 15:17

Tgt Ion: 84 Resp: 79
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#





#25

2-Butanone

Concen: 2.922 ug/l

RT: 7.24 min Scan# 905

Delta R.T. 0.02 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

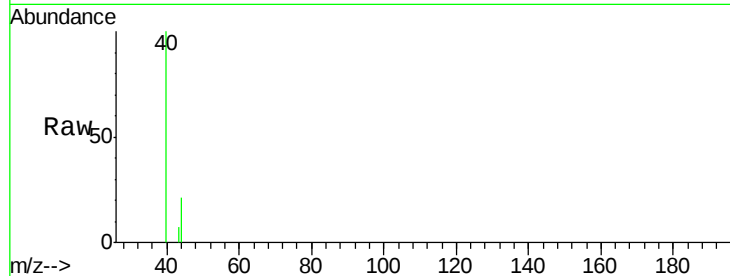
SB-4-(5-6)

Tgt Ion: 43 Resp: 63

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

7.24

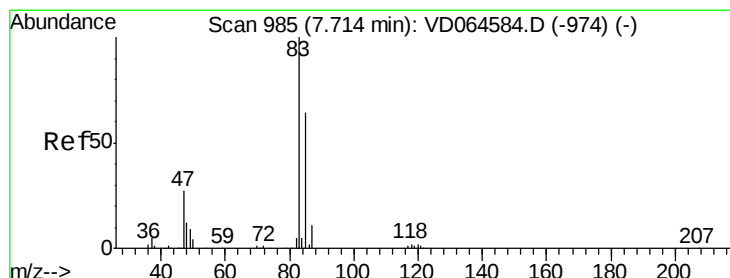
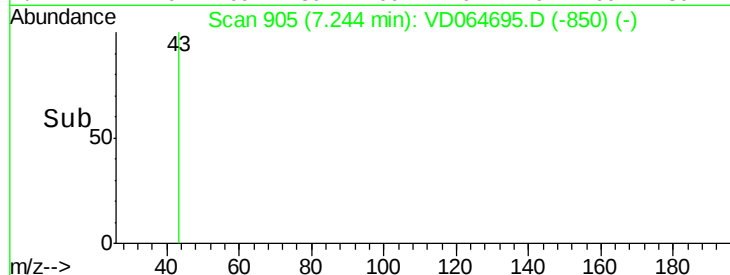
150

100

50

0

Time-->



#30

Chloroform

Concen: 1.187 ug/l

RT: 7.72 min Scan# 986

Delta R.T. 0.01 min

Lab File: VD064695.D

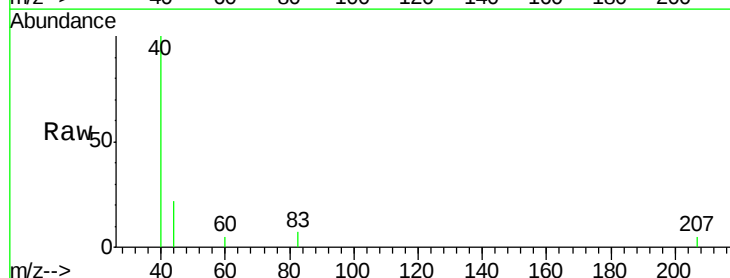
Acq: 31 Dec 2019 15:17

Tgt Ion: 83 Resp: 182

Ion Ratio Lower Upper

83 100

85 0.0 51.1 76.7#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

7.72

200

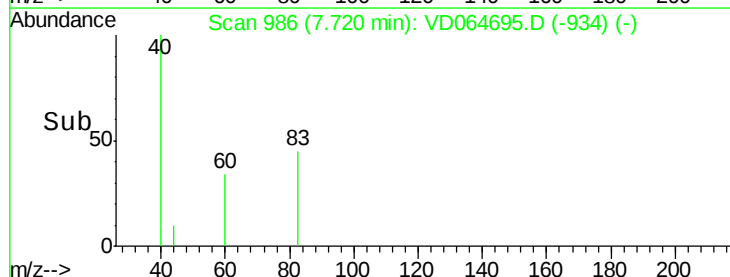
150

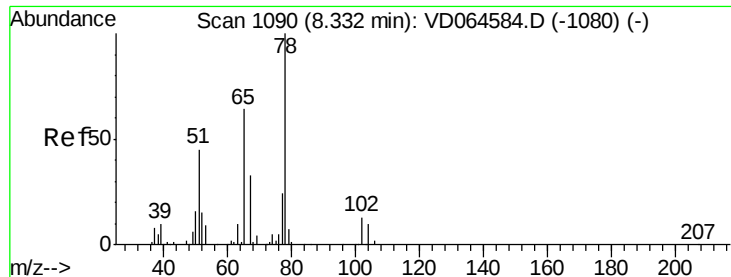
100

50

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 70.448 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

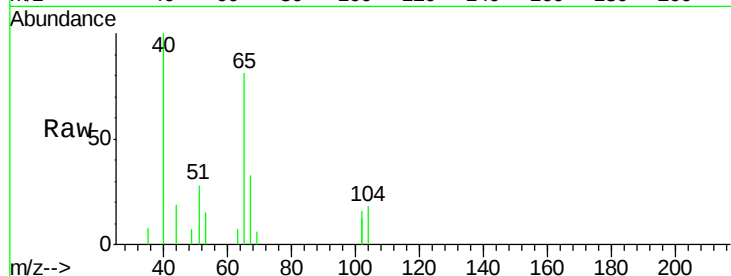
SB-4-(5-6)

Tgt Ion: 65 Resp: 5525

Ion Ratio Lower Upper

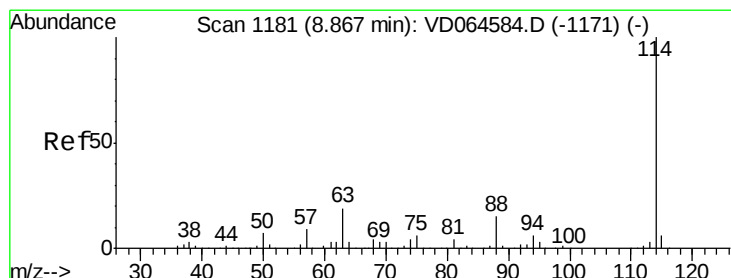
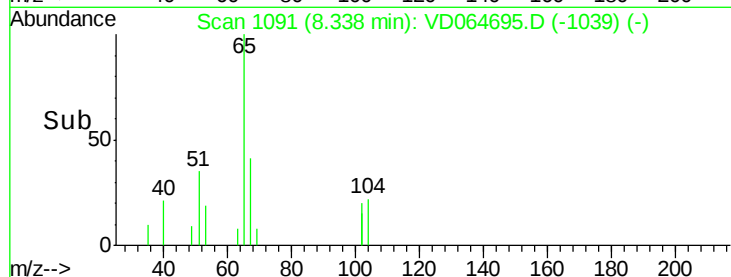
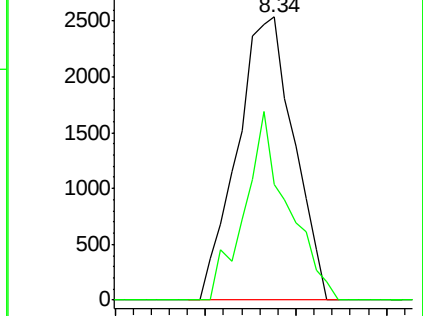
65 100

67 51.0 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

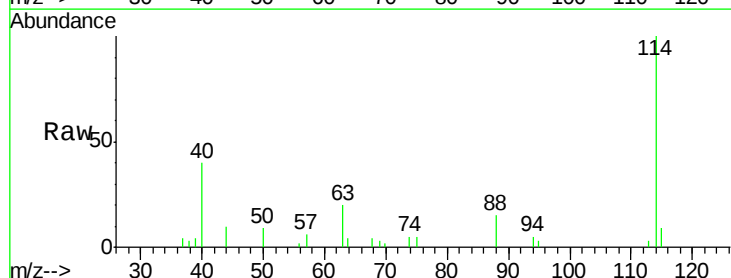
Tgt Ion: 114 Resp: 13902

Ion Ratio Lower Upper

114 100

63 20.0 0.0 38.0

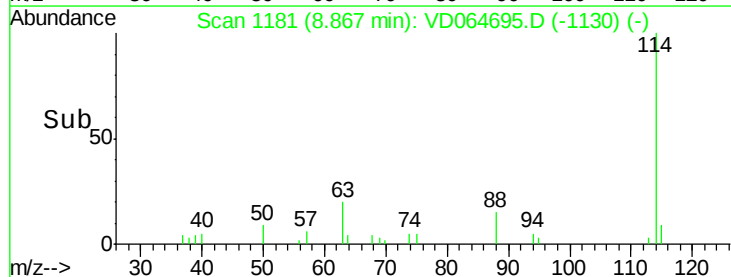
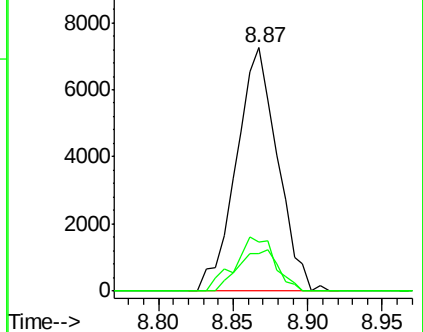
88 15.4 0.0 29.2

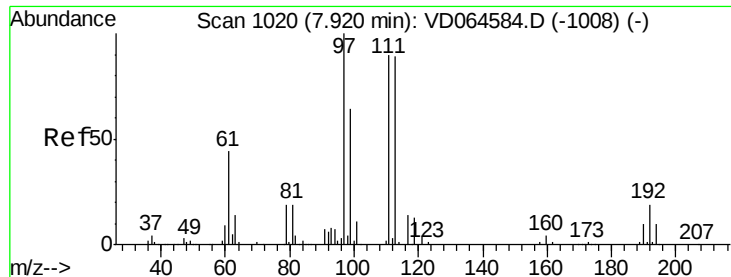


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 57.145 ug/l

RT: 7.93 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

SB-4-(5-6)

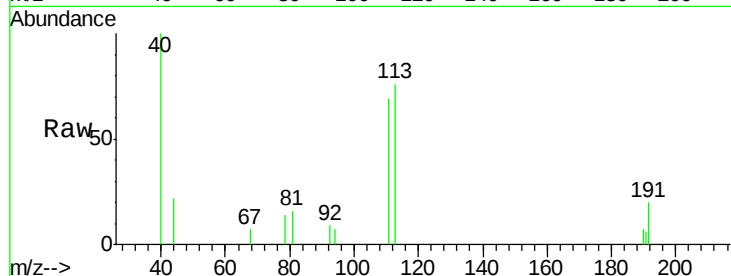
Tgt Ion:113 Resp: 4874

Ion Ratio Lower Upper

113 100

111 0.0 80.6 121.0#

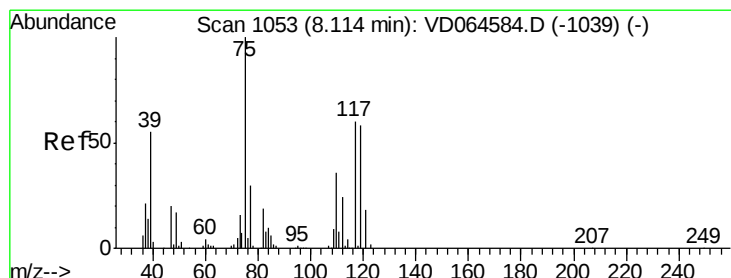
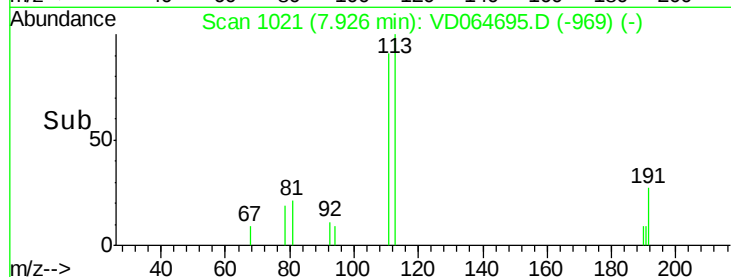
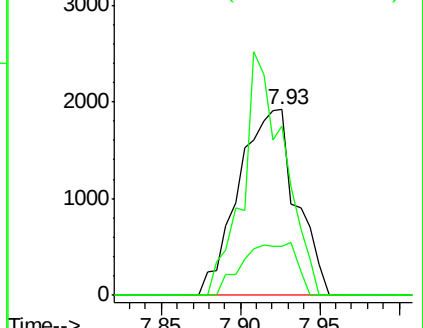
192 26.3 17.9 26.9



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: 5.657 ug/l

RT: 8.00 min Scan# 1033

Delta R.T. -0.12 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

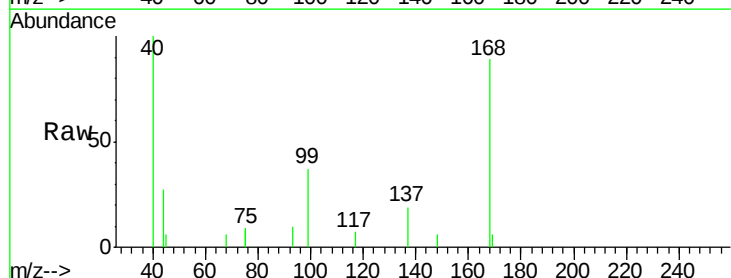
Tgt Ion: 75 Resp: 757

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.1#

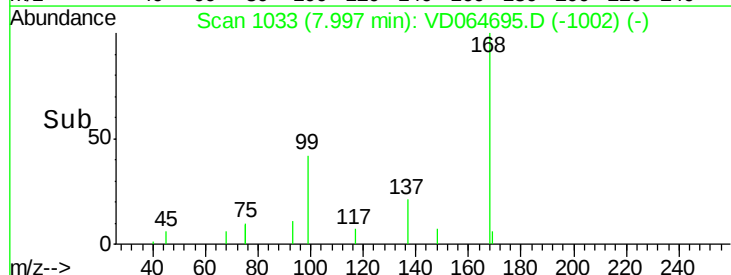
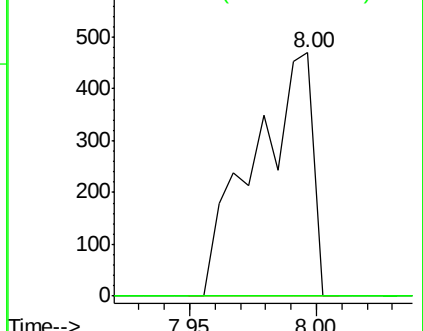
77 0.0 24.2 36.4#

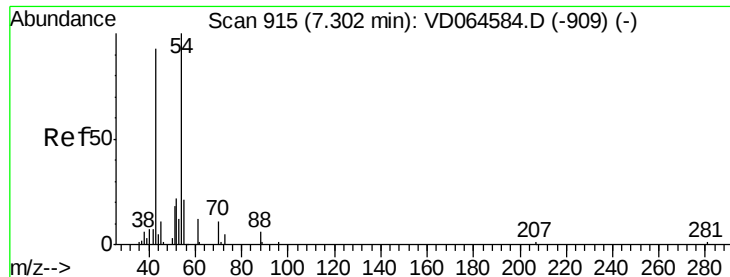


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 1.179 ug/l

RT: 7.34 min Scan# 921

Delta R.T. 0.04 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

SB-4-(5-6)

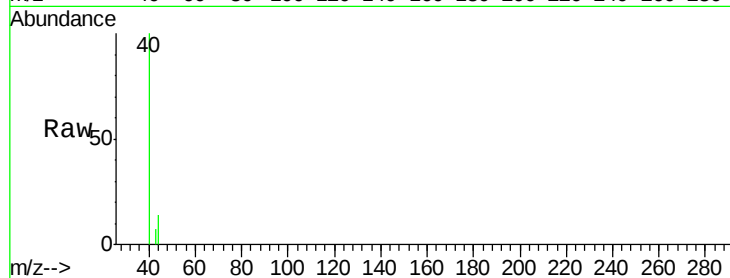
Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

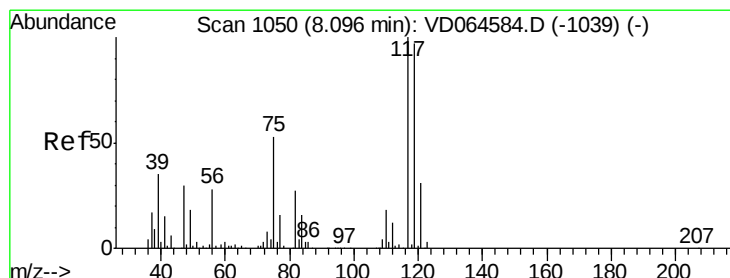
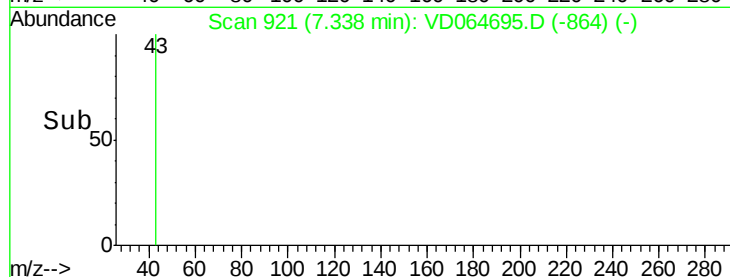
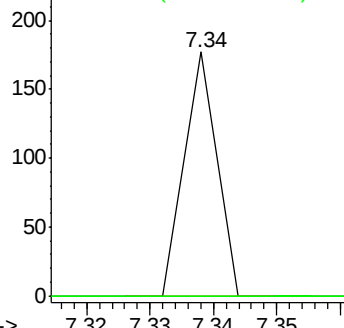
70 0.0 7.6 11.4#



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



#38

Carbon Tetrachloride

Concen: 6.525 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

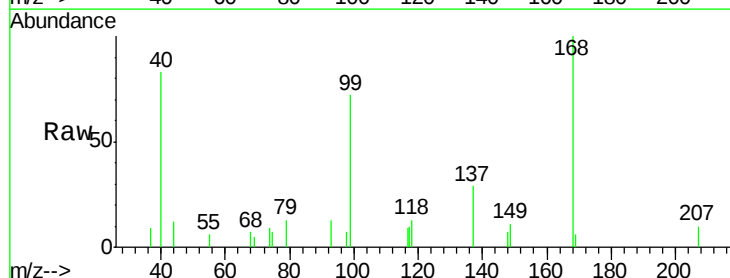
Tgt Ion: 117 Resp: 931

Ion Ratio Lower Upper

117 100

119 0.0 77.3 115.9#

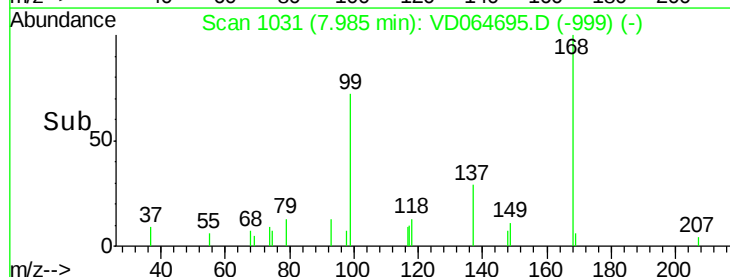
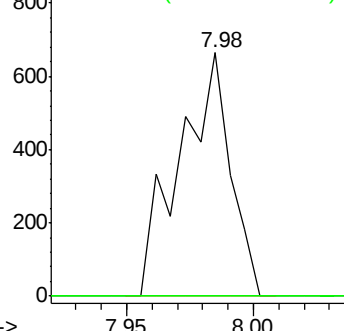
121 0.0 25.0 37.6#

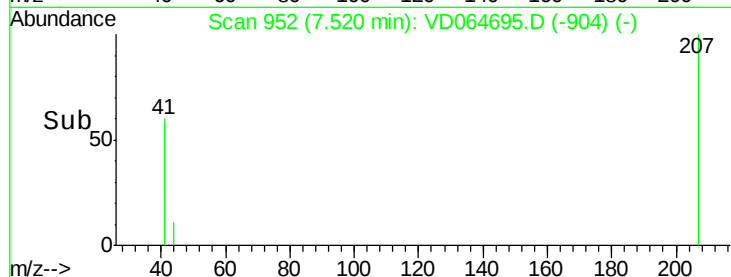
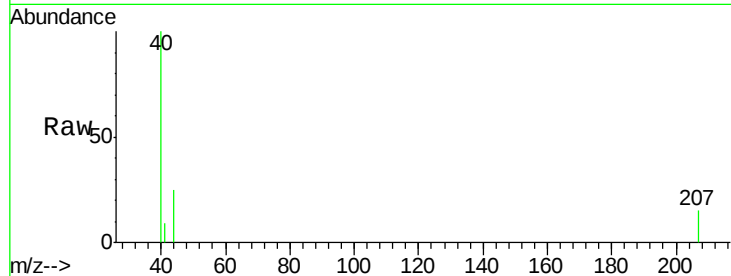
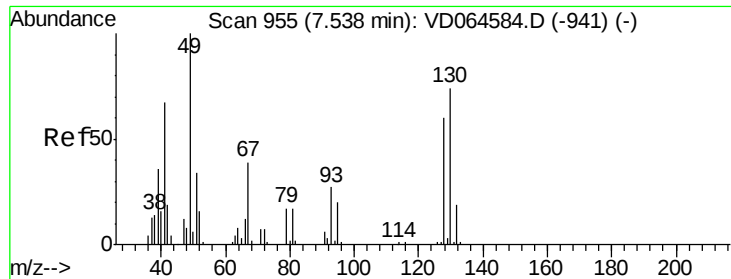


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

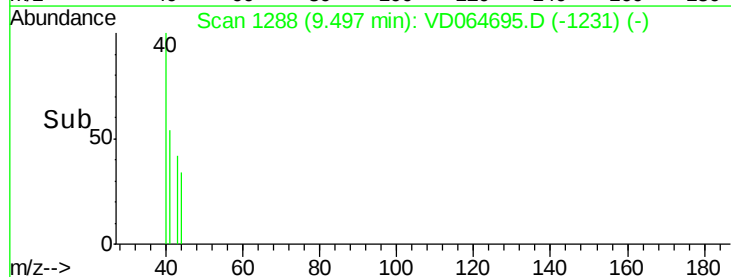
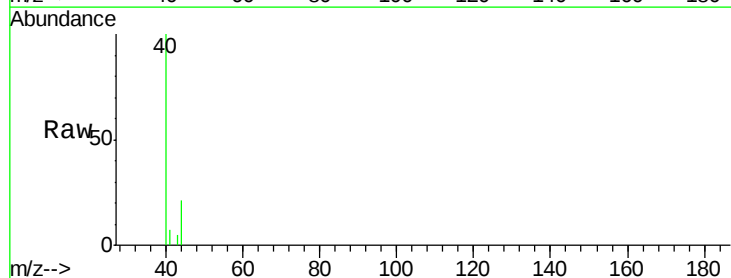
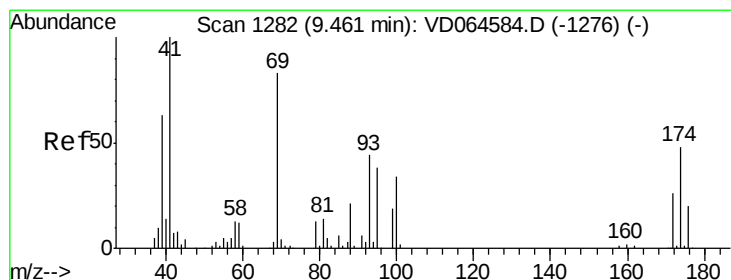
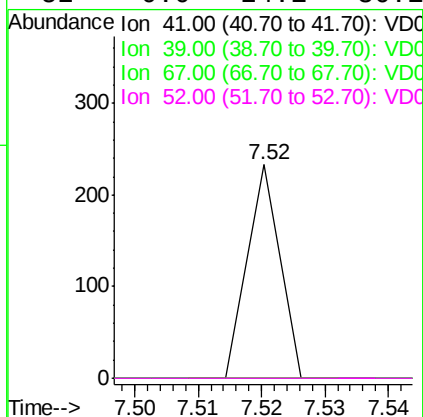




#41
Methacrylonitrile
Concen: 2.689 ug/l
RT: 7.52 min Scan# 952
Delta R.T. -0.02 min
Lab File: VD064695.D
Acq: 31 Dec 2019 15:17

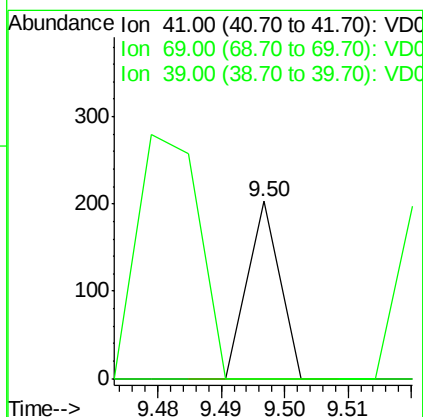
Instrument :
MSVOA_D
ClientSampleId :
SB-4-(5-6)

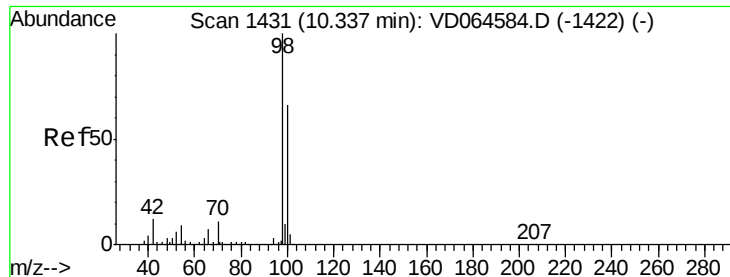
Tgt Ion:	41	Resp:	82
Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.7	70.1#
67	0.0	52.5	78.7#
52	0.0	24.1	36.1#



#48
Methyl methacrylate
Concen: 1.461 ug/l
RT: 9.50 min Scan# 1288
Delta R.T. 0.04 min
Lab File: VD064695.D
Acq: 31 Dec 2019 15:17

Tgt Ion:	41	Resp:	72
Ion	Ratio	Lower	Upper
41	100		
69	0.0	63.0	94.6#
39	262.5	47.4	71.2#





#50

Toluene-d8

Concen: 46.330 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

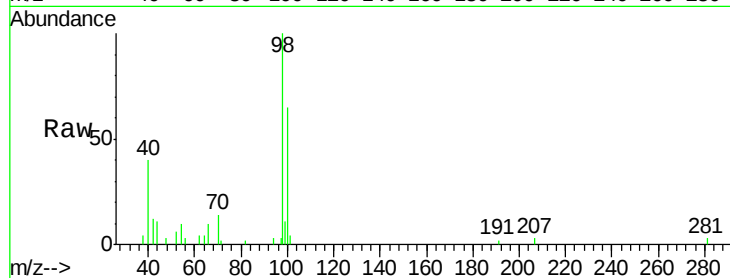
SB-4-(5-6)

Tgt Ion: 98 Resp: 15134

Ion Ratio Lower Upper

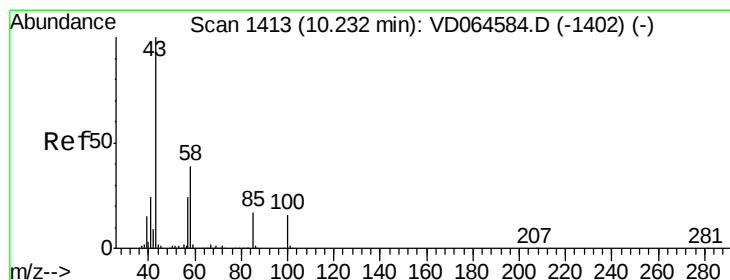
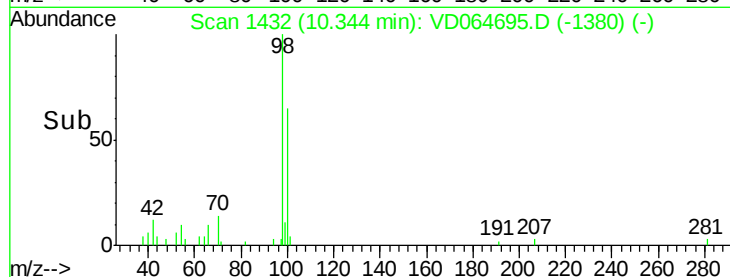
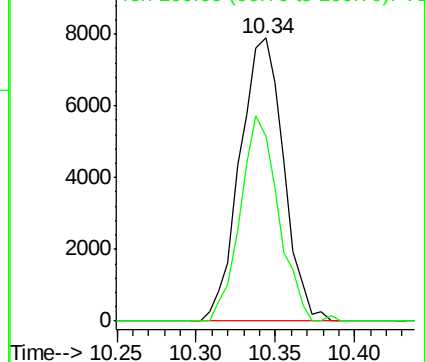
98 100

100 62.8 51.7 77.5



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: 1.315 ug/l

RT: 10.08 min Scan# 1388

Delta R.T. -0.15 min

Lab File: VD064695.D

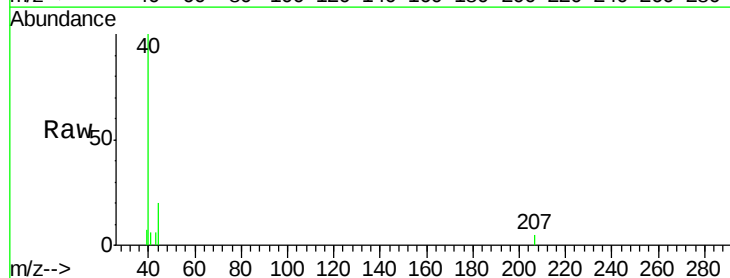
Acq: 31 Dec 2019 15:17

Tgt Ion: 43 Resp: 68

Ion Ratio Lower Upper

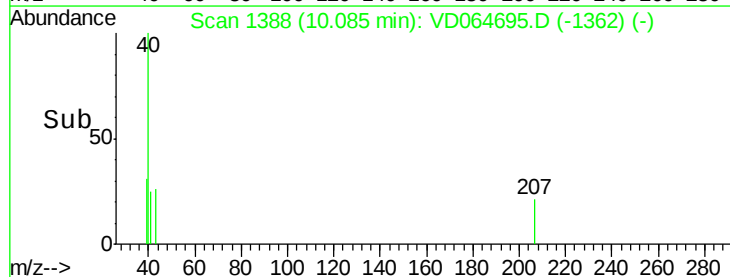
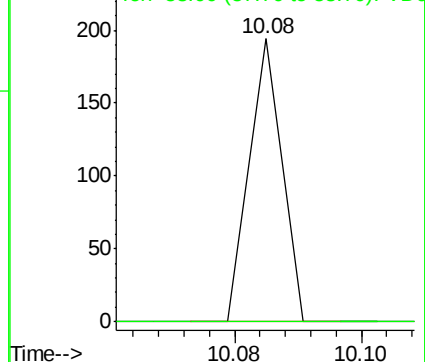
43 100

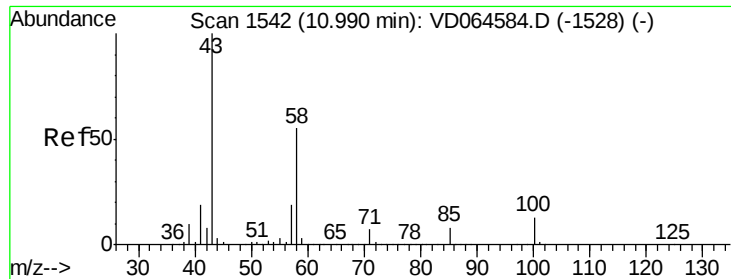
58 0.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

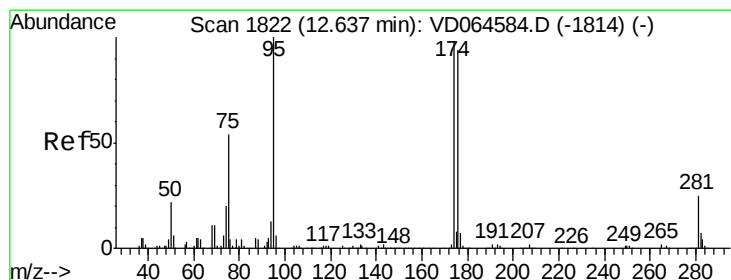
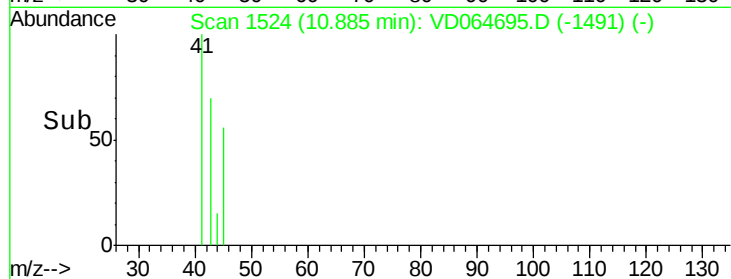
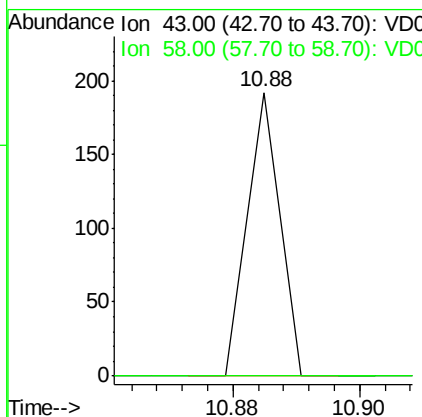
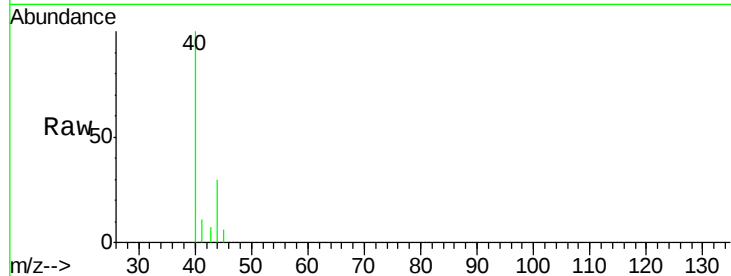




#59
2-Hexanone
Concen: 1.937 ug/l
RT: 10.88 min Scan# 1524
Delta R.T. -0.11 min
Lab File: VD064695.D
Acq: 31 Dec 2019 15:17

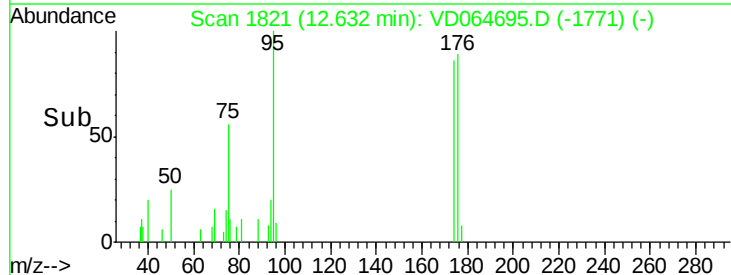
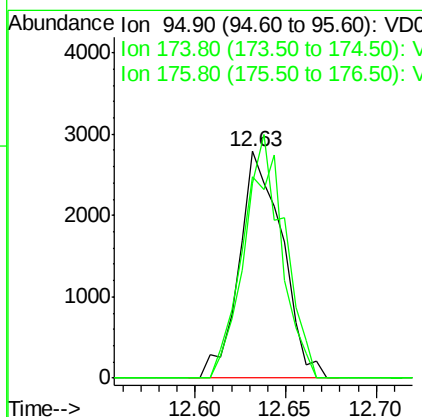
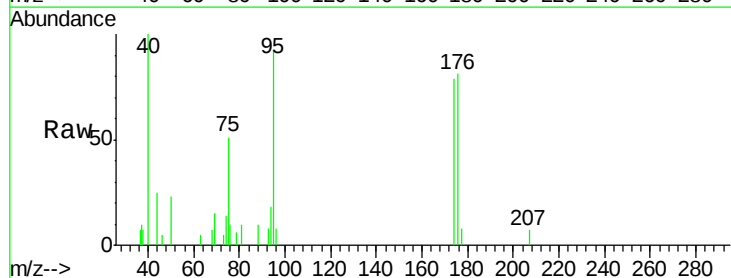
Instrument :
MSVOA_D
ClientSampleId :
SB-4-(5-6)

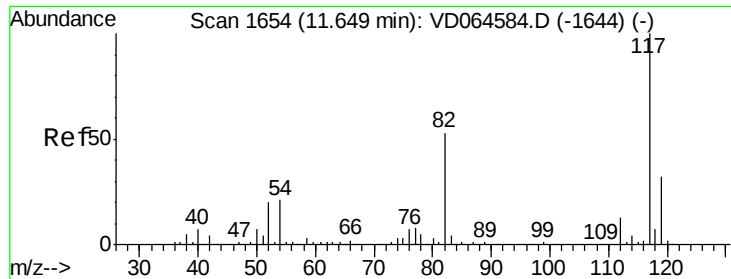
Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
58 0.0 26.4 79.0#



#62
4-Bromofluorobenzene
Concen: 44.486 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.01 min
Lab File: VD064695.D
Acq: 31 Dec 2019 15:17

Tgt Ion: 95 Resp: 4595
Ion Ratio Lower Upper
95 100
174 99.7 0.0 193.2
176 95.4 0.0 184.2

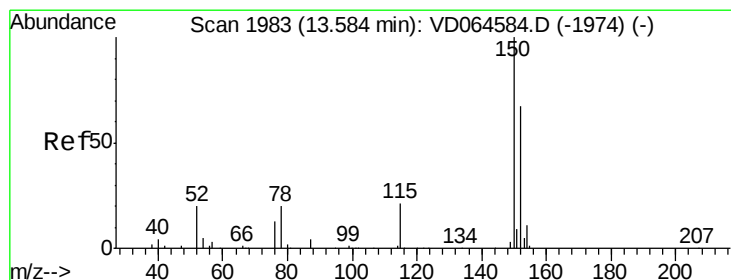
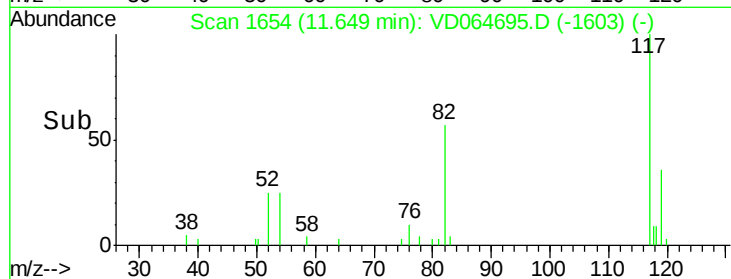
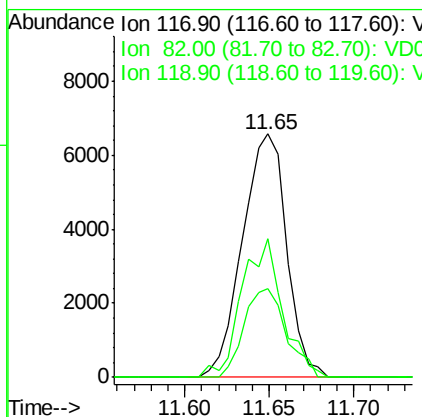
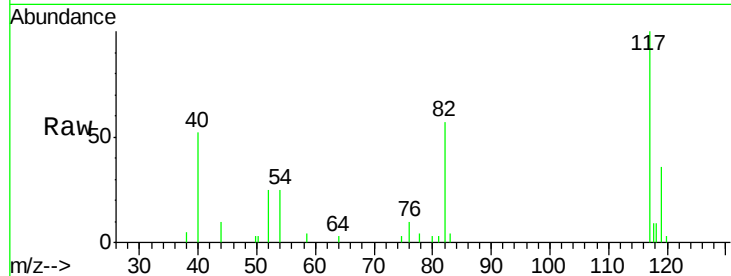




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064695.D
Acq: 31 Dec 2019 15:17

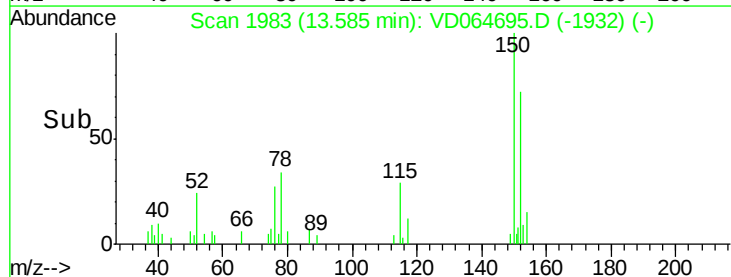
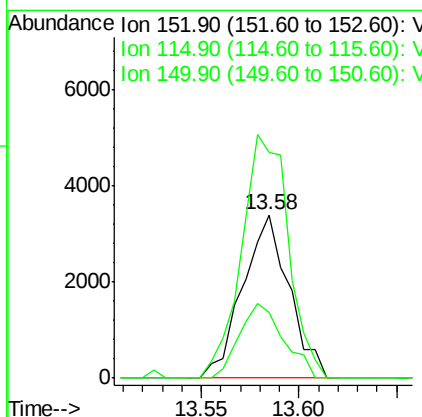
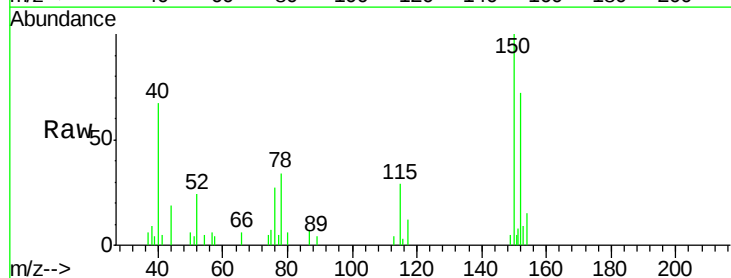
Instrument :
MSVOA_D
ClientSampleId :
SB-4-(5-6)

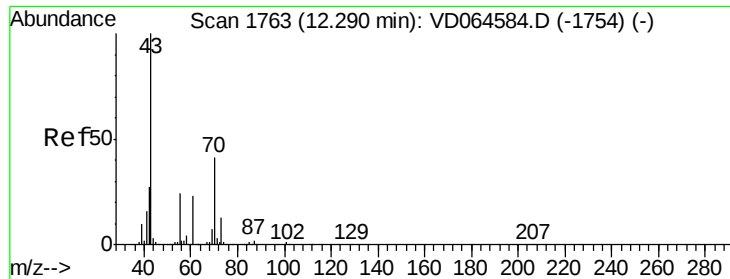
Tgt Ion:117 Resp: 11899
Ion Ratio Lower Upper
117 100
82 57.0 42.2 63.4
119 36.2 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064695.D
Acq: 31 Dec 2019 15:17

Tgt Ion:152 Resp: 5590
Ion Ratio Lower Upper
152 100
115 43.6 27.8 83.4
150 151.2 0.0 351.4

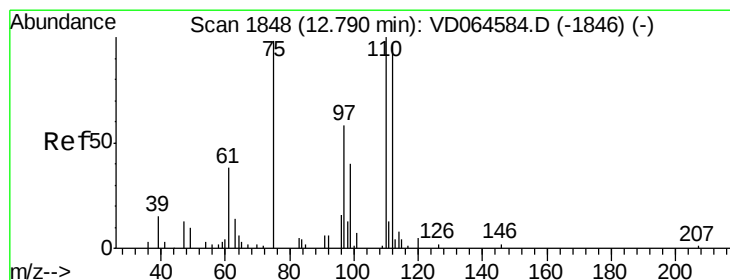
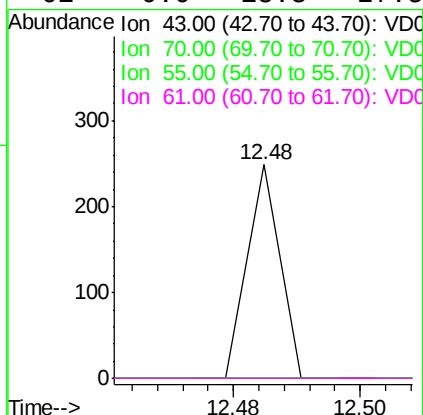
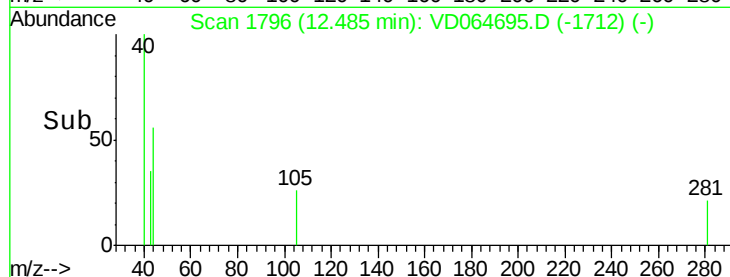
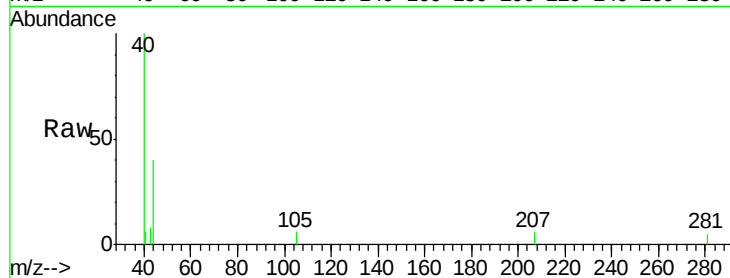




#74
N-ethyl acetate
Concen: 1.031 ug/l
RT: 12.48 min Scan# 1796
Delta R.T. 0.19 min
Lab File: VD064695.D
Acq: 31 Dec 2019 15:17

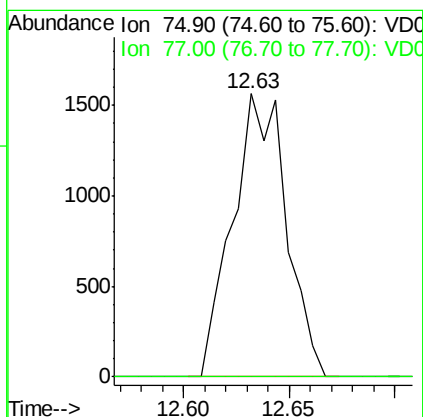
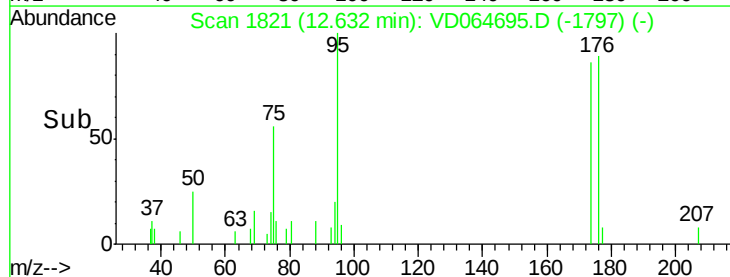
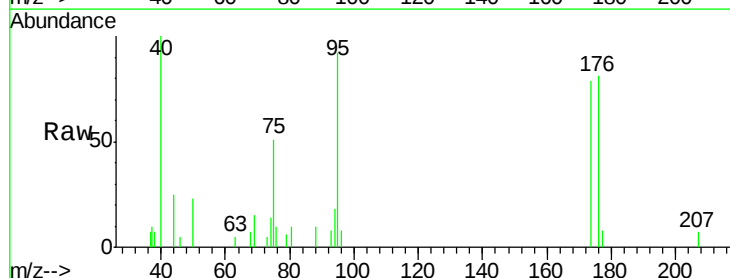
Instrument :
MSVOA_D
ClientSampleId :
SB-4-(5-6)

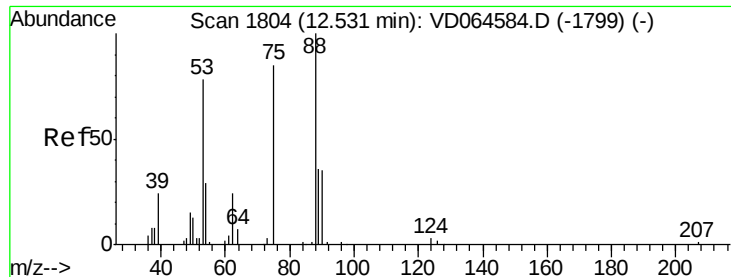
Tgt Ion: 43 Resp: 88
Ion Ratio Lower Upper
43 100
70 0.0 33.4 50.0#
55 0.0 19.4 29.0#
61 0.0 18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 62.616 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.16 min
Lab File: VD064695.D
Acq: 31 Dec 2019 15:17

Tgt Ion: 75 Resp: 2764
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#81

trans-1,4-Dichloro-2-butene

Concen: 130.959 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD064695.D

Acq: 31 Dec 2019 15:17

Instrument :

MSVOA_D

ClientSampleId :

SB-4-(5-6)

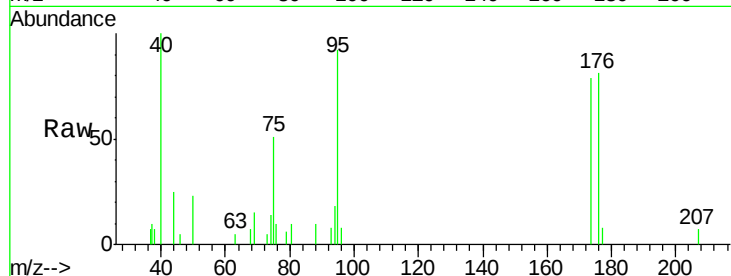
Tgt Ion: 75 Resp: 2764

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

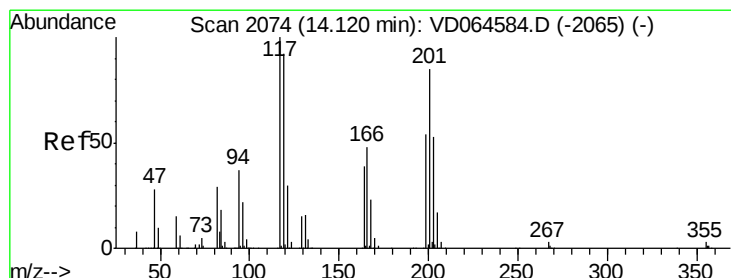
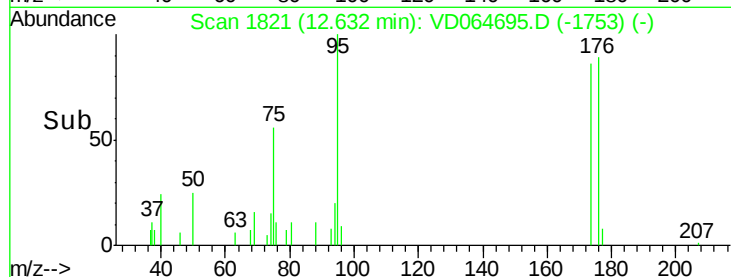
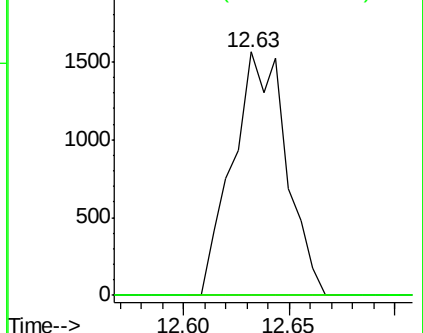
89 0.0 38.3 57.5#



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



#90

Hexachloroethane

Concen: 1.163 ug/l

RT: 13.84 min Scan# 2026

Delta R.T. -0.28 min

Lab File: VD064695.D

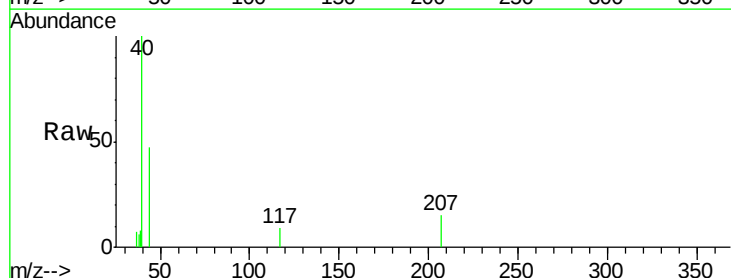
Acq: 31 Dec 2019 15:17

Tgt Ion: 117 Resp: 83

Ion Ratio Lower Upper

117 100

201 0.0 44.0 131.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

