

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD123019\
 Data File : VD064677.D
 Acq On : 30 Dec 2019 14:40
 Operator : VA/SY
 Sample : K6439-13
 Misc : 5.33G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 31 07:09:22 2019
 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	39815	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	60872	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	61568	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	29978	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	28409	80.92	ug/l	0.00
Spiked Amount			Recovery	=	161.84%	
35) Dibromofluoromethane	7.91	113	22466	60.16	ug/l	0.00
Spiked Amount			Recovery	=	120.32%	
50) Toluene-d8	10.34	98	72871	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.64	95	23829	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	

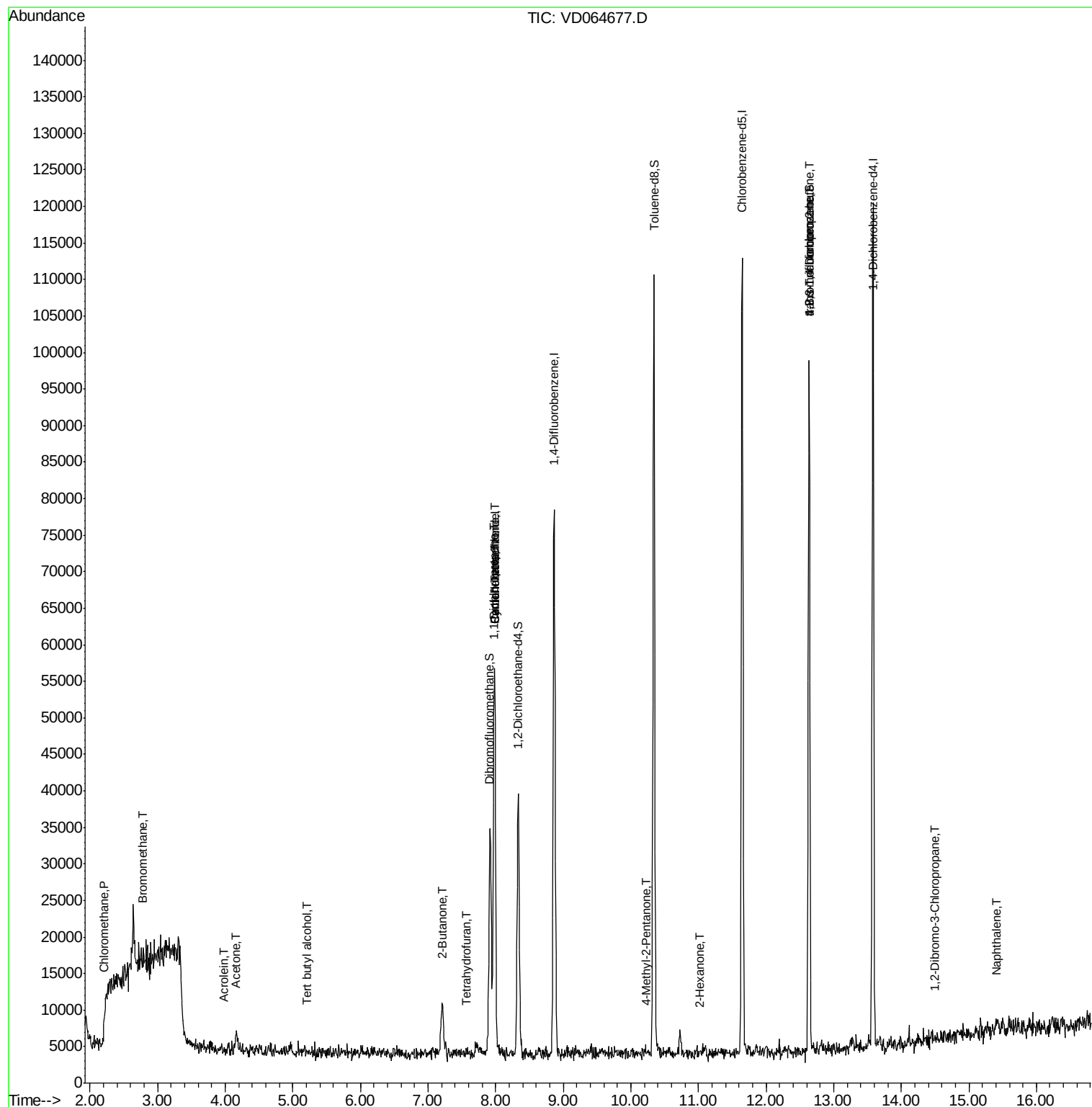
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	462	1.068	ug/l #	42
5) Bromomethane	2.78	94	513	1.337	ug/l	94
11) Tert butyl alcohol	5.20	59	206	10.238	ug/l #	70
13) Acrolein	3.98	56	58	2.068	ug/l #	14
16) Acetone	4.16	43	5074	66.089	ug/l	91
20) Methylene Chloride	4.96	84	335	Below Cal	#	42
25) 2-Butanone	7.21	43	1080	11.191	ug/l #	49
29) Tetrahydrofuran	7.57	42	402	6.698	ug/l #	33
31) Cyclohexane	7.98	56	1304	1.992	ug/l #	47
36) 1,1-Dichloropropene	7.97	75	3245	5.539	ug/l #	45
38) Carbon Tetrachloride	7.98	117	4079	6.529	ug/l #	23
51) 4-Methyl-2-Pentanone	10.24	43	406	1.793	ug/l #	37
59) 2-Hexanone	11.01	43	211	1.373	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	13405	56.627	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	13405	118.433	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.50	75	58	1.063	ug/l #	1
95) Naphthalene	15.41	128	1165	1.169	ug/l #	76

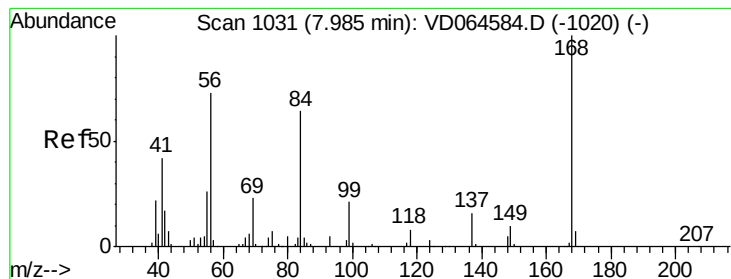
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064677.D

Acq: 30 Dec 2019 14:40

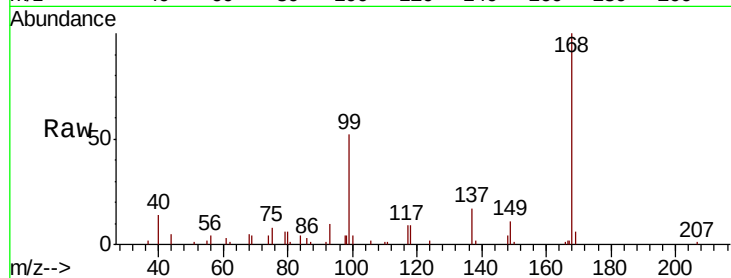
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 39815

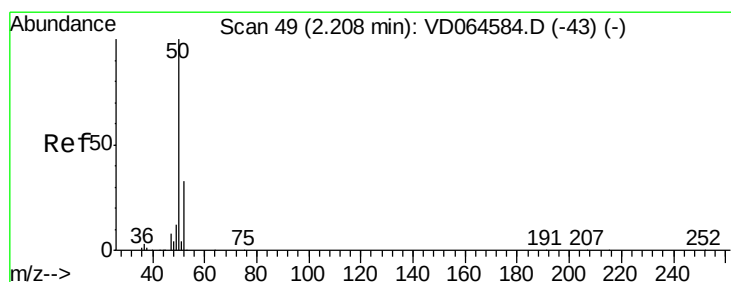
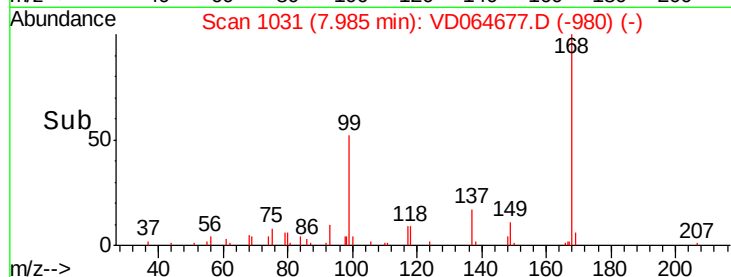
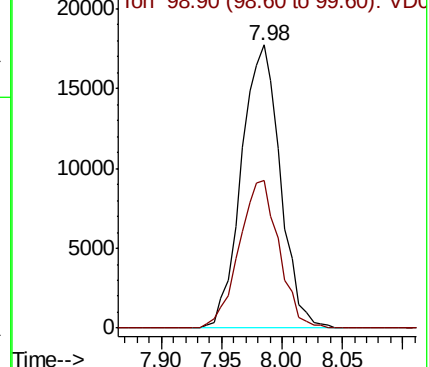
Ion Ratio Lower Upper

168 100

99 52.0 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V



#3

Chloromethane

Concen: 1.068 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD064677.D

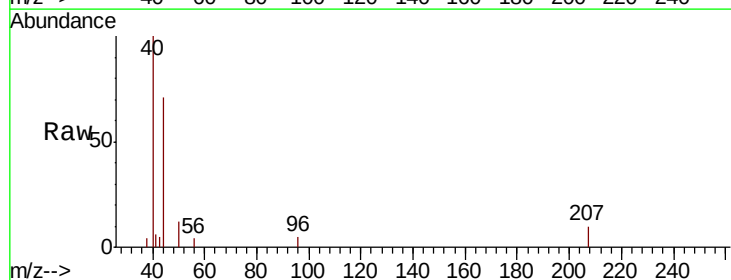
Acq: 30 Dec 2019 14:40

Tgt Ion: 50 Resp: 462

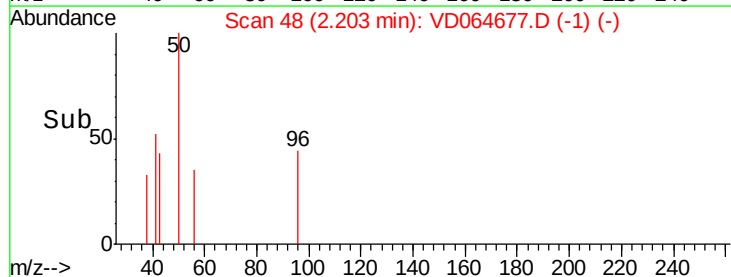
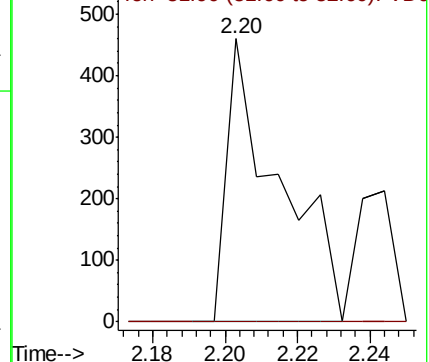
Ion Ratio Lower Upper

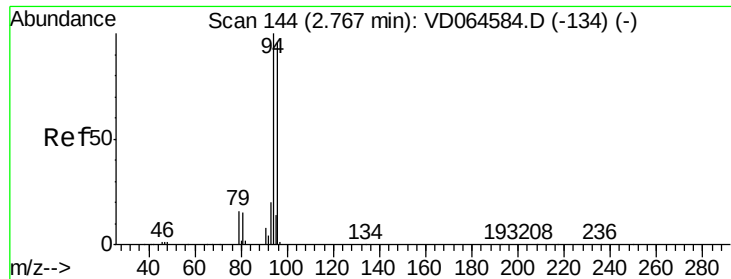
50 100

52 0.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC





#5

Bromomethane

Concen: 1.337 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD064677.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_D

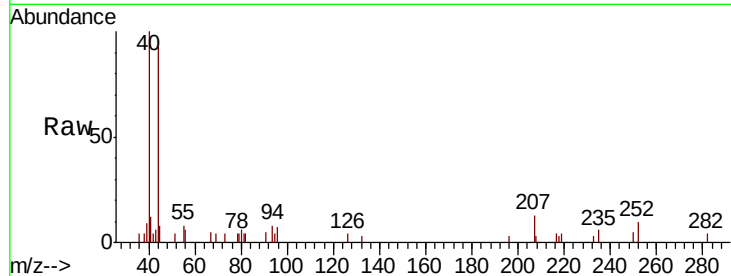
ClientSampleId :

Tot Ion: 94 Resp: 513

Ion Ratio Lower Upper

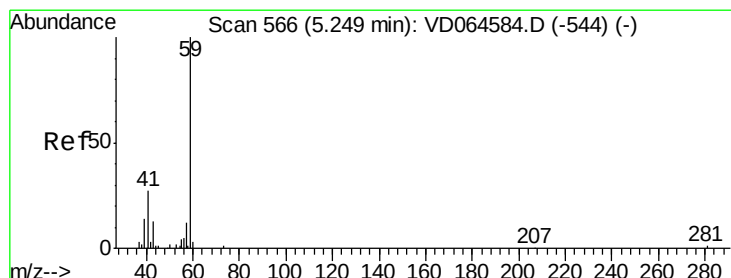
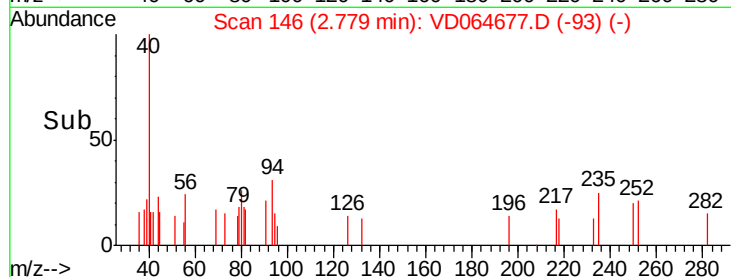
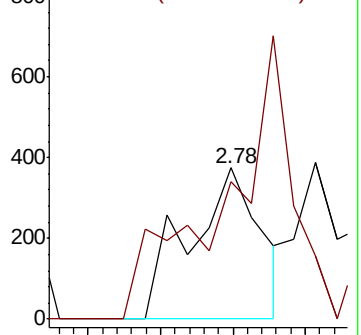
94 100

96 90.4 77.2 115.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: 10.238 ug/l

RT: 5.20 min Scan# 558

Delta R.T. -0.05 min

Lab File: VD064677.D

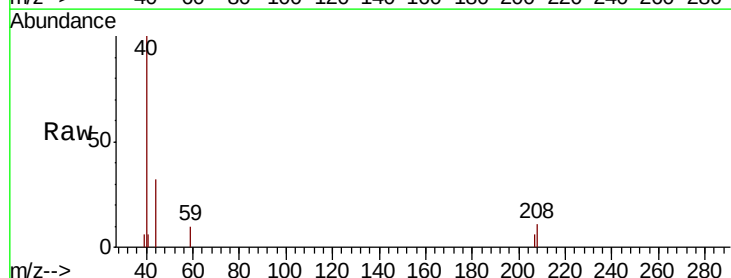
Acq: 30 Dec 2019 14:40

Tgt Ion: 59 Resp: 206

Ion Ratio Lower Upper

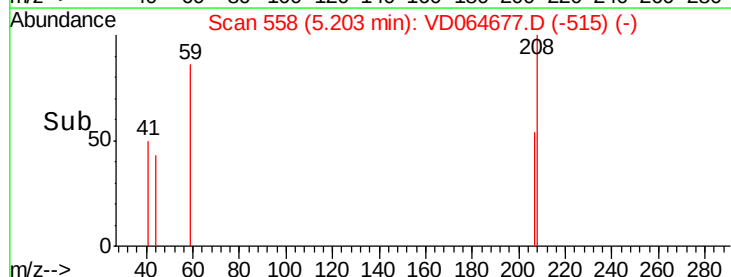
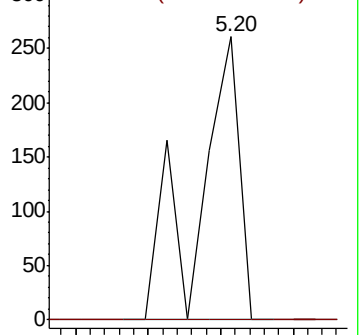
59 100

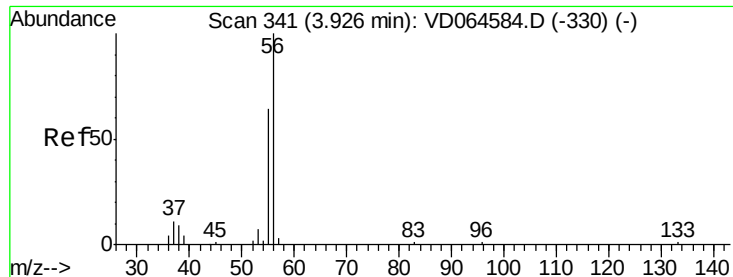
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#13

Acrolein

Concen: 2.068 ug/l

RT: 3.98 min Scan# 350

Delta R.T. 0.05 min

Lab File: VD064677.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_D

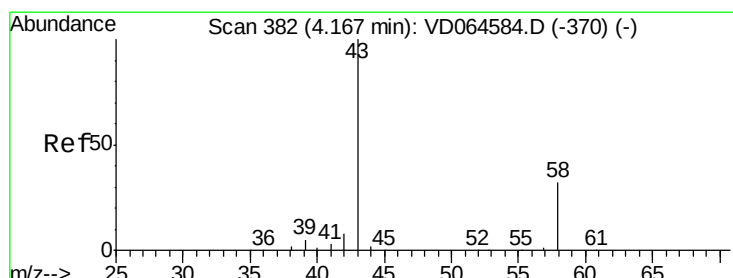
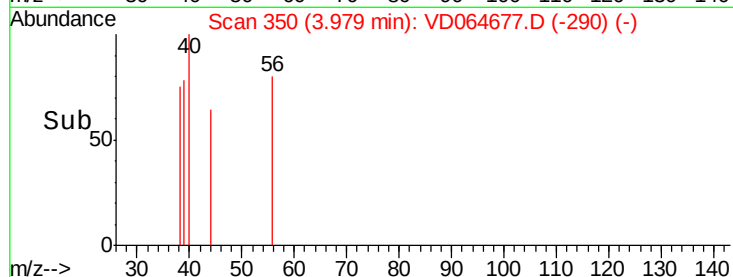
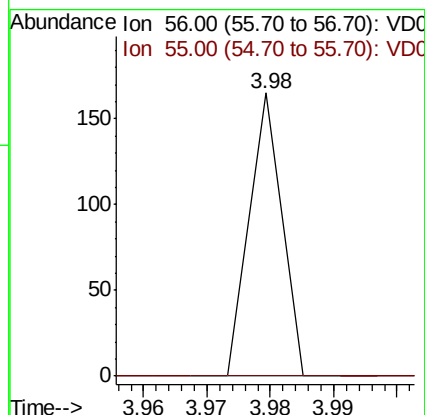
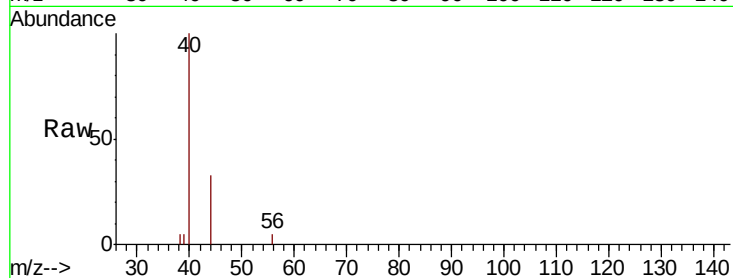
ClientSampled :

Tot Ion: 56 Resp: 58

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 66.089 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD064677.D

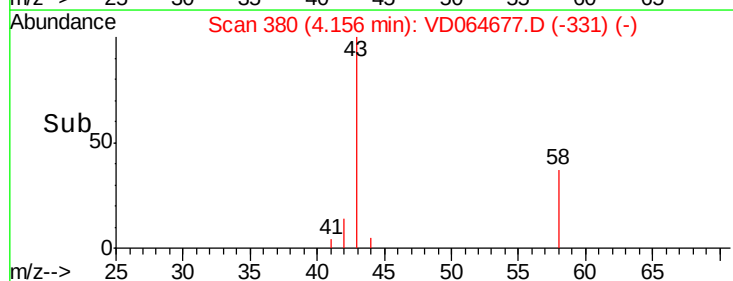
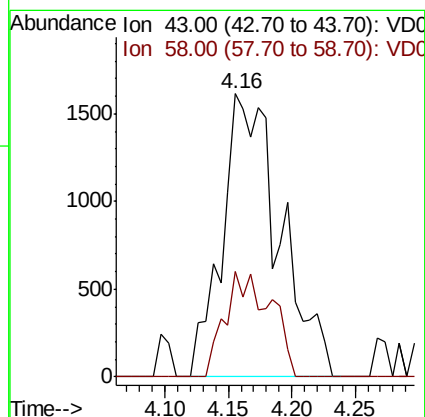
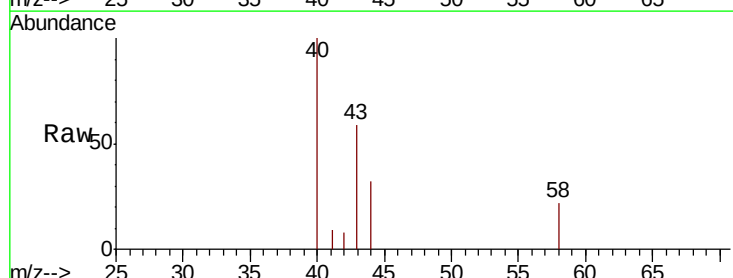
Acq: 30 Dec 2019 14:40

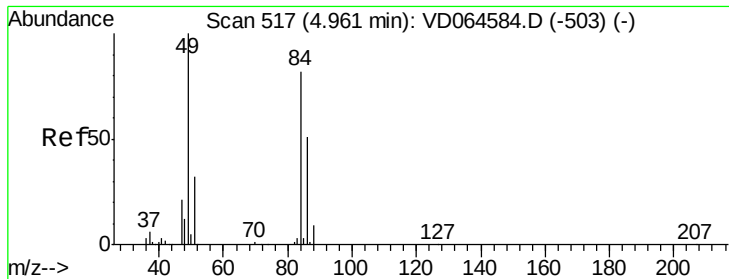
Tgt Ion: 43 Resp: 5074

Ion Ratio Lower Upper

43 100

58 37.3 25.8 38.6

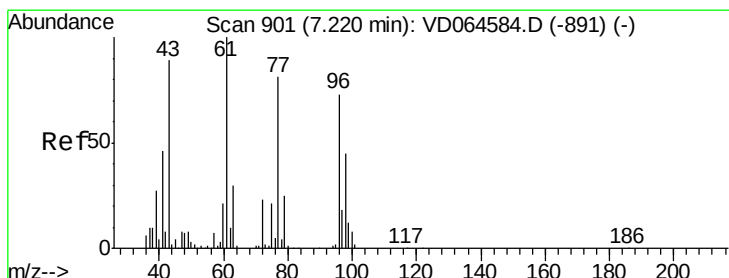
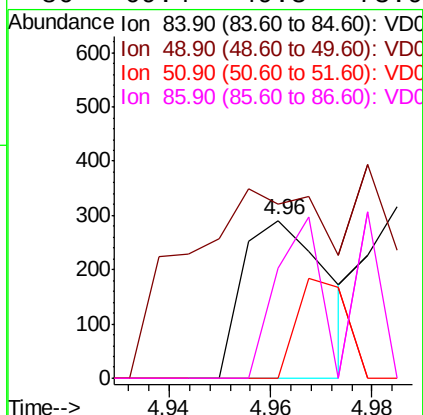
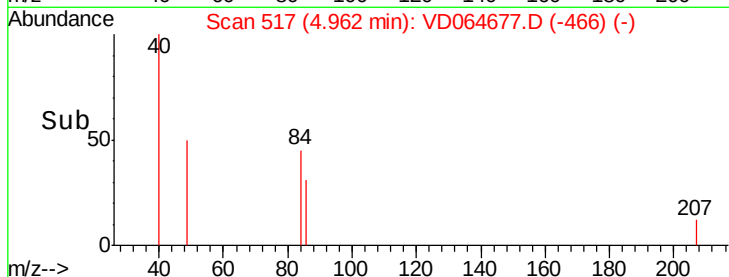
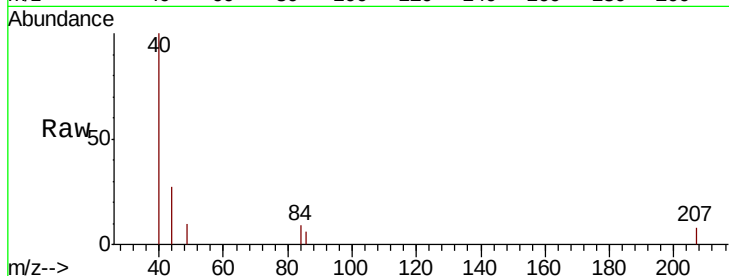




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

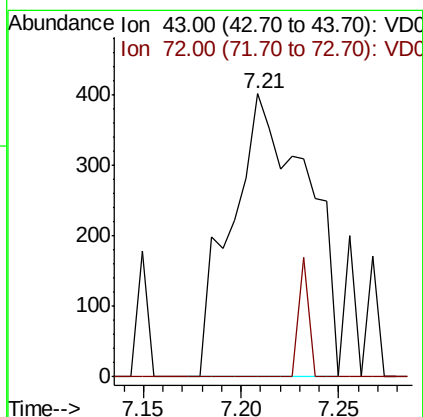
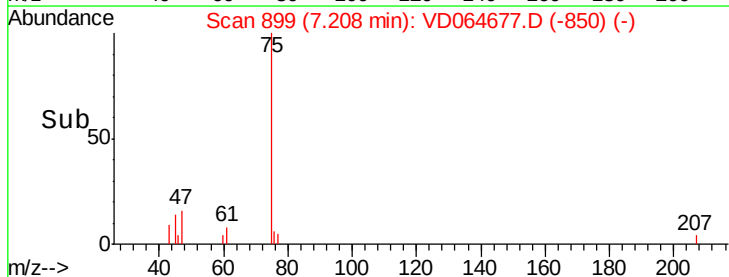
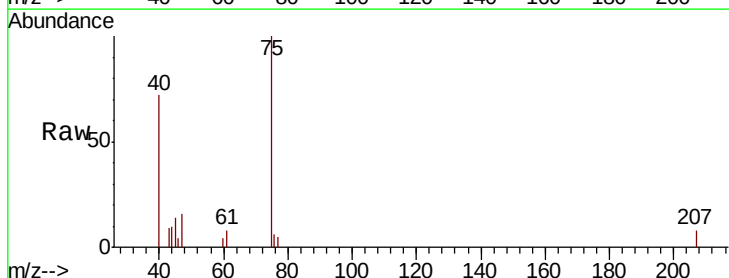
Instrument :
MSVOA_D
ClientSampleId :

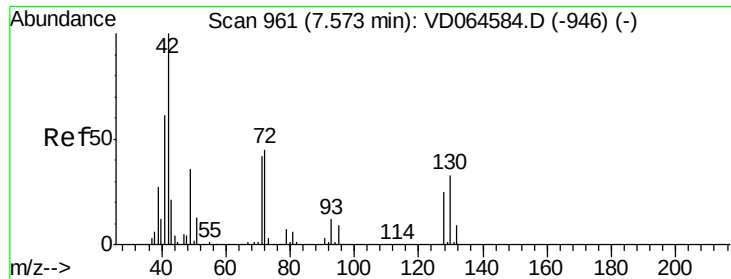
Tot Ion: 84 Resp: 335
Ion Ratio Lower Upper
84 100
49 32.0 97.2 145.8#
51 0.0 31.4 47.0#
86 69.4 49.3 73.9



#25
2-Butanone
Concen: 11.191 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

Tgt Ion: 43 Resp: 1080
Ion Ratio Lower Upper
43 100
72 0.0 20.7 31.1#

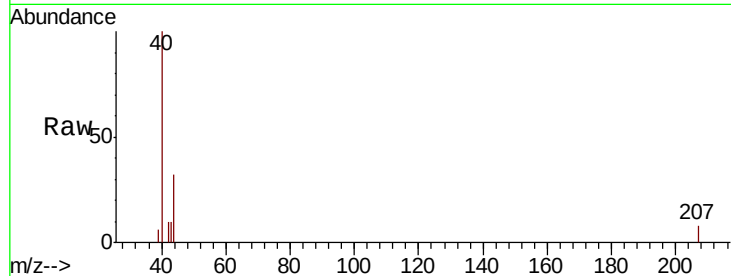




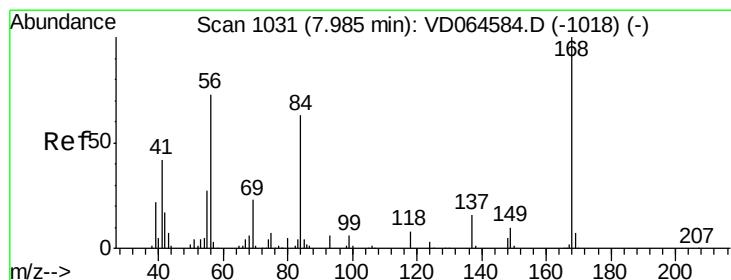
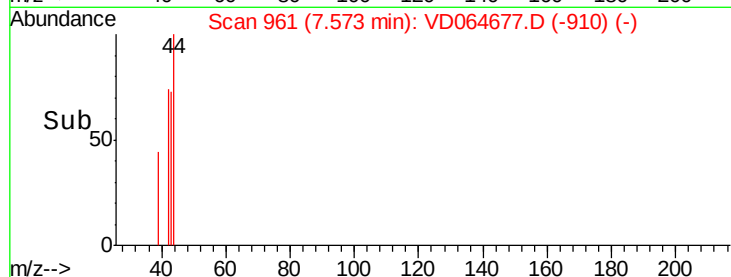
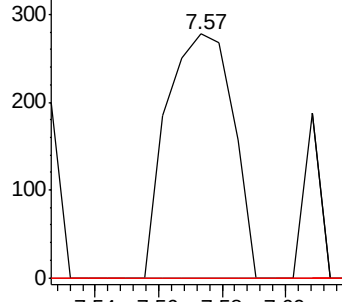
#29
Tetrahydrofuran
Concen: 6.698 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.00 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 42 Resp: 402
Ion Ratio Lower Upper
42 100
72 0.0 35.0 52.4#
71 0.0 32.9 49.3#

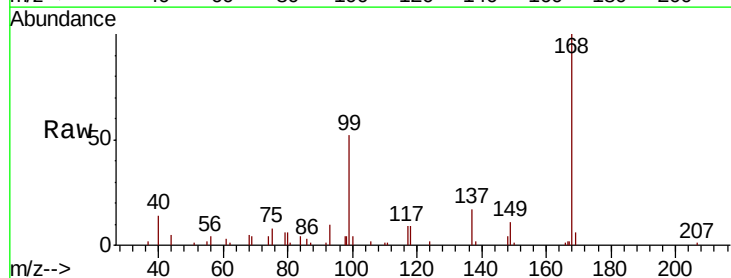


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

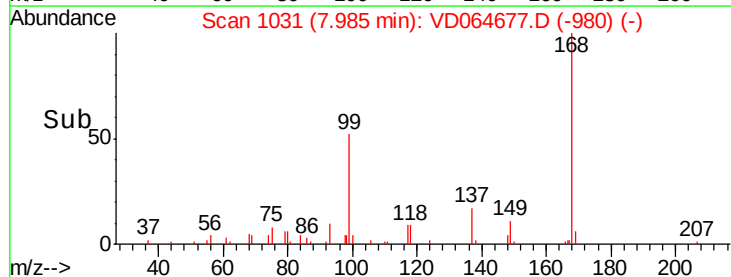
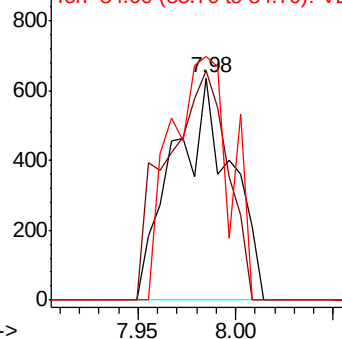


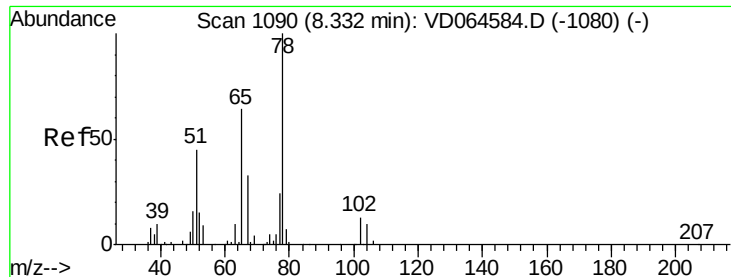
#31
Cyclohexane
Concen: 1.992 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

Tgt Ion: 56 Resp: 1304
Ion Ratio Lower Upper
56 100
69 103.5 24.7 37.1#
84 109.4 69.4 104.2#



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 80.918 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064677.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_D

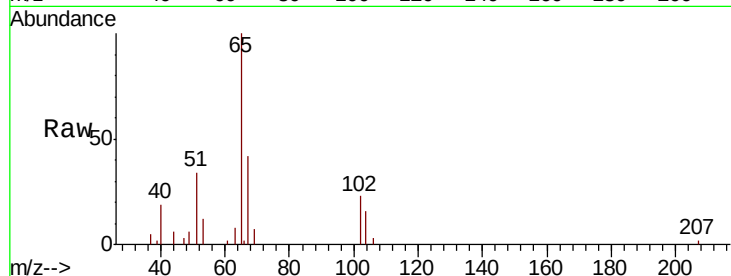
ClientSampled :

Tot Ion: 65 Resp: 28409

Ion Ratio Lower Upper

65 100

67 50.1 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

15000

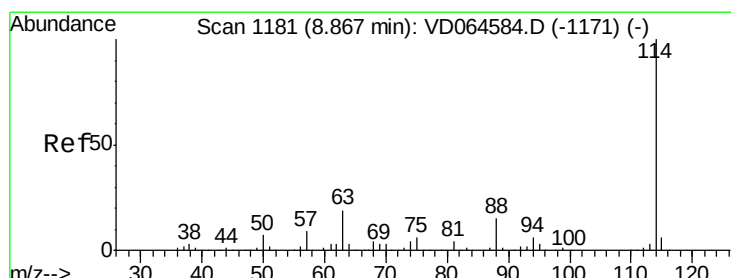
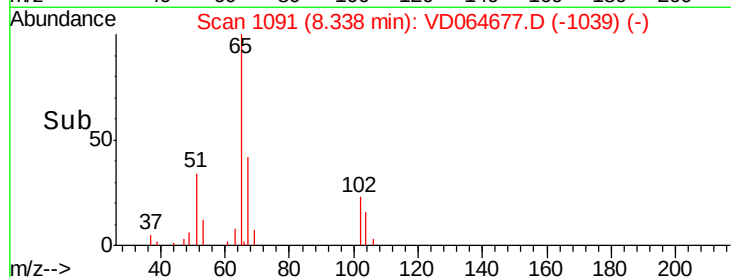
10000

5000

0

8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064677.D

Acq: 30 Dec 2019 14:40

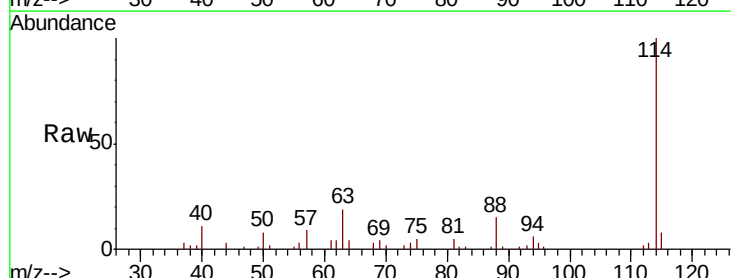
Tgt Ion: 114 Resp: 60872

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.0

88 15.4 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

40000

30000

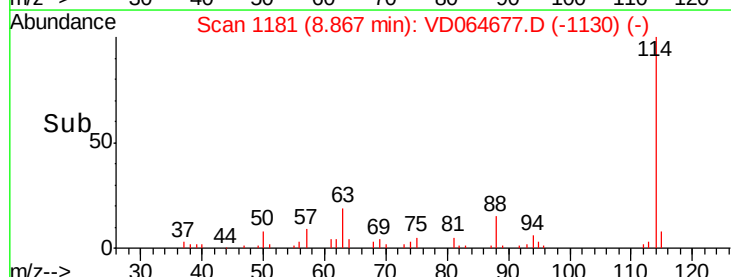
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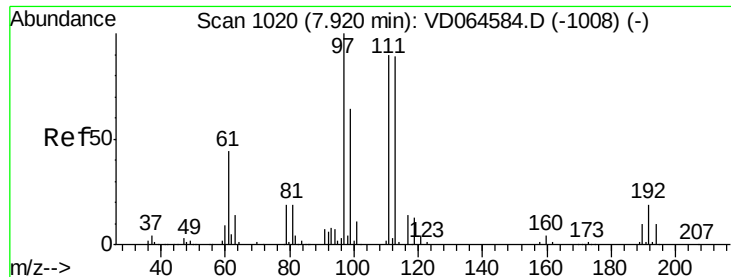
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0

8.80 8.85 8.90 8.95

Time-->

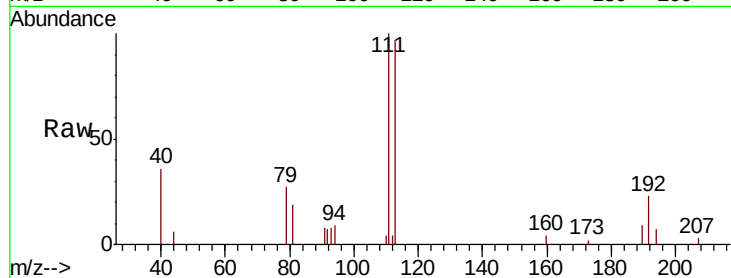




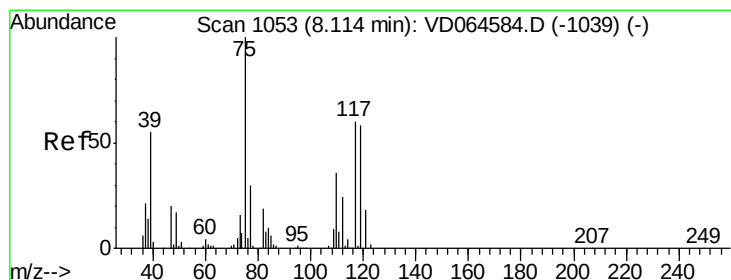
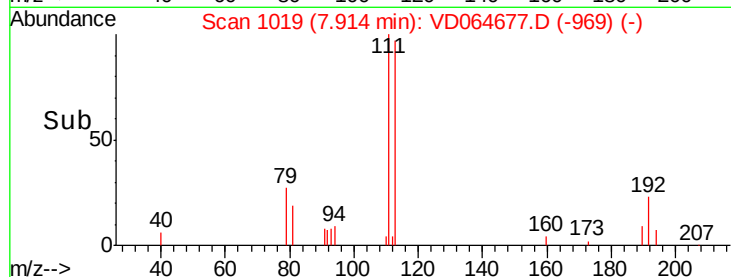
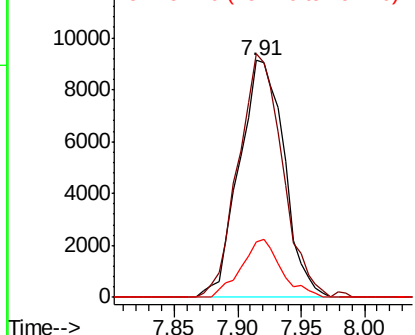
#35
 Dibromofluoromethane
 Concen: 60.156 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD064677.D
 Acq: 30 Dec 2019 14:40

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.4	80.6	121.0
192	22.0	17.9	26.9

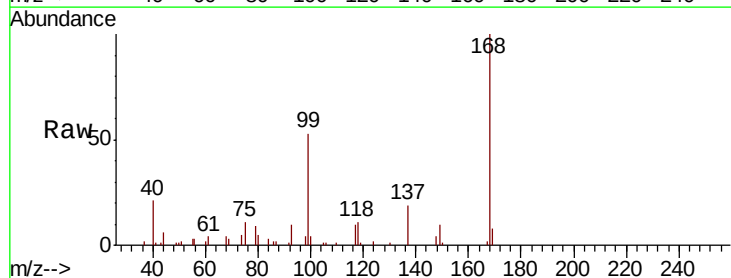


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

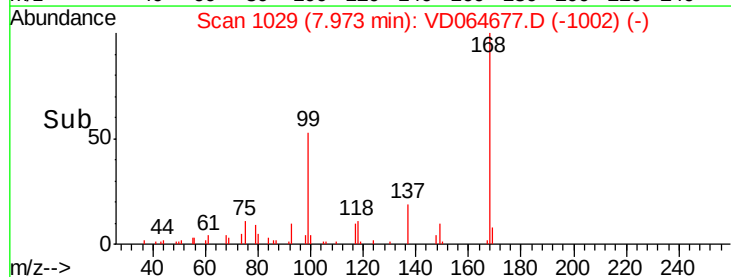
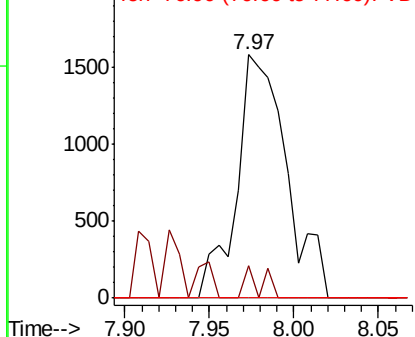


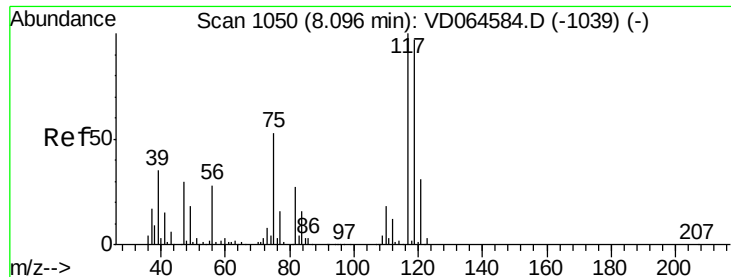
#36
 1,1-Dichloropropene
 Concen: 5.539 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD064677.D
 Acq: 30 Dec 2019 14:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.4	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





#38

Carbon Tetrachloride

Concen: 6.529 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064677.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

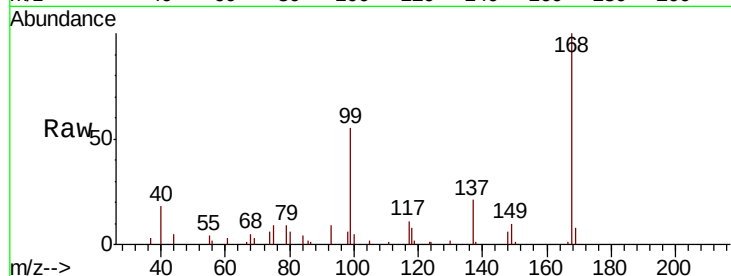
Tot Ion:117 Resp: 4079

Ion Ratio Lower Upper

117 100

119 14.1 77.3 115.9#

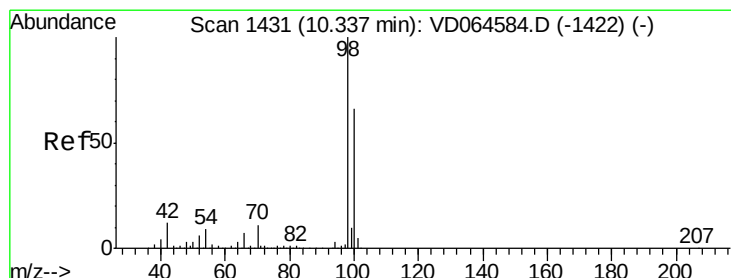
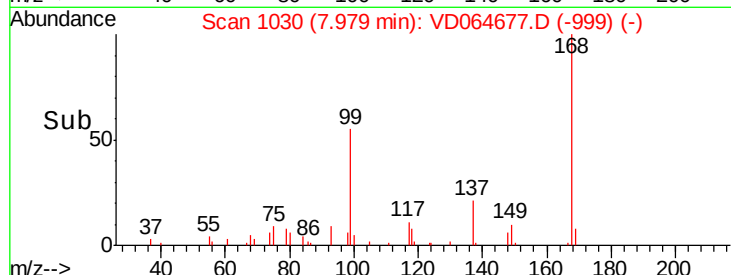
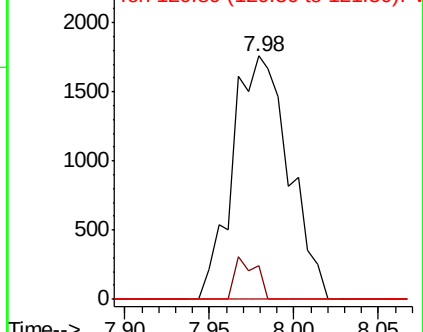
121 0.0 25.0 37.6#



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



#50

Toluene-d8

Concen: 50.948 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064677.D

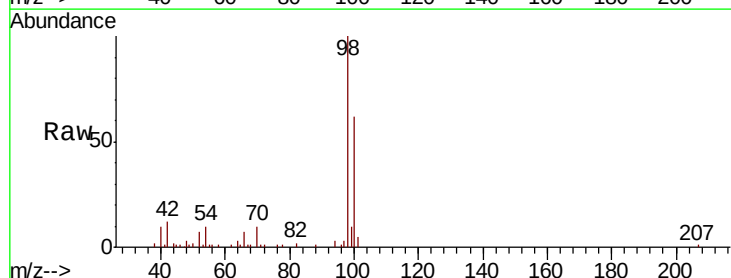
Acq: 30 Dec 2019 14:40

Tgt Ion: 98 Resp: 72871

Ion Ratio Lower Upper

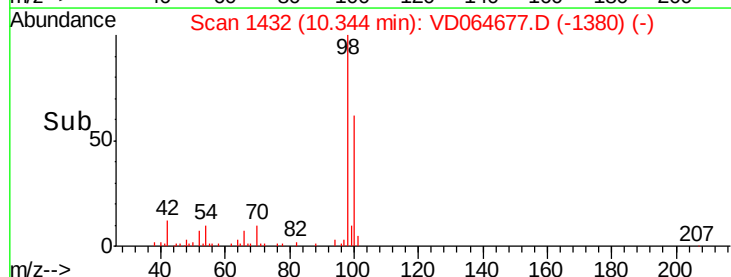
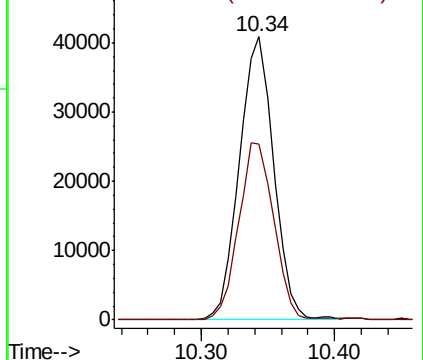
98 100

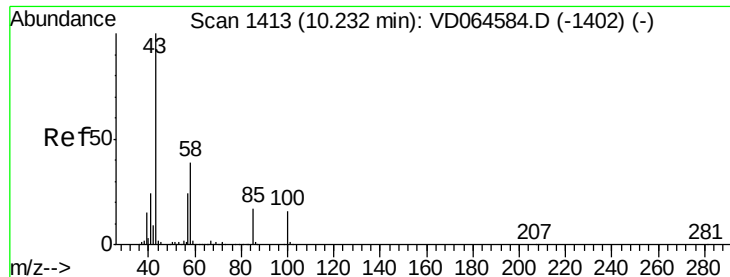
100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

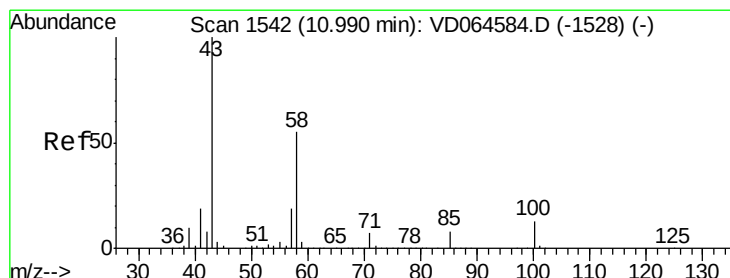
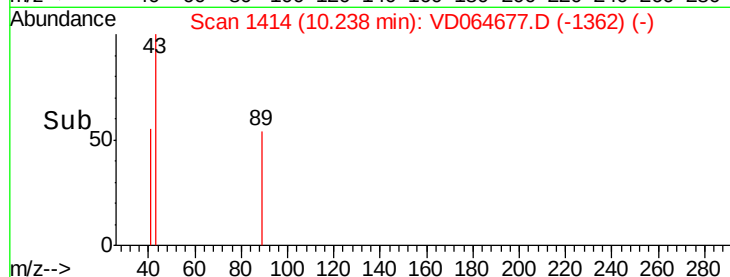
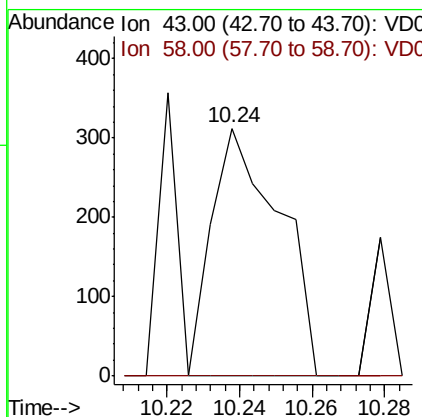
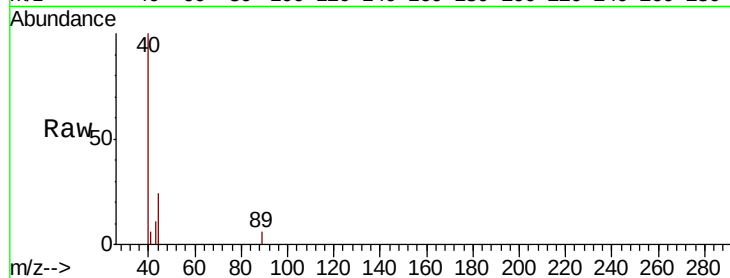




#51
4-Methyl-2-Pentanone
Concen: 1.793 ug/l
RT: 10.24 min Scan# 1414
Delta R.T. 0.01 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

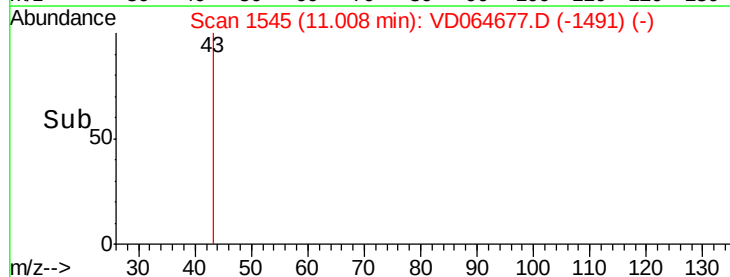
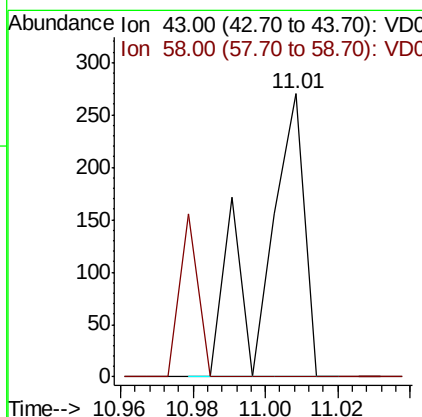
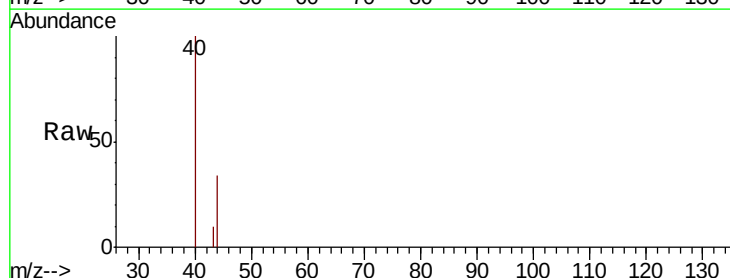
Instrument :
MSVOA_D
ClientSampled :

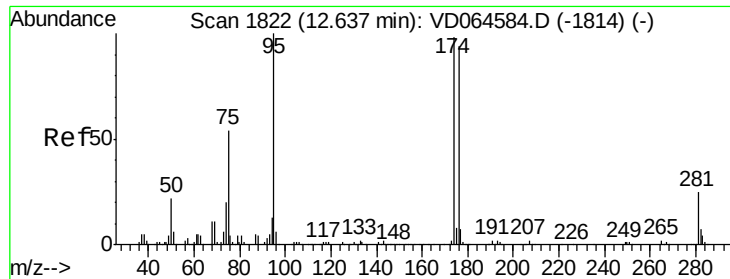
Tot Ion: 43 Resp: 406
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#



#59
2-Hexanone
Concen: 1.373 ug/l
RT: 11.01 min Scan# 1545
Delta R.T. 0.02 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

Tgt Ion: 43 Resp: 211
Ion Ratio Lower Upper
43 100
58 0.0 26.4 79.0#

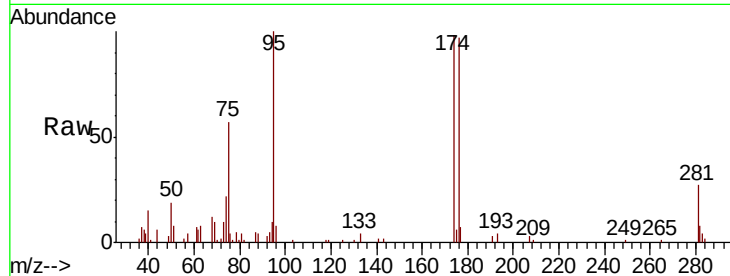




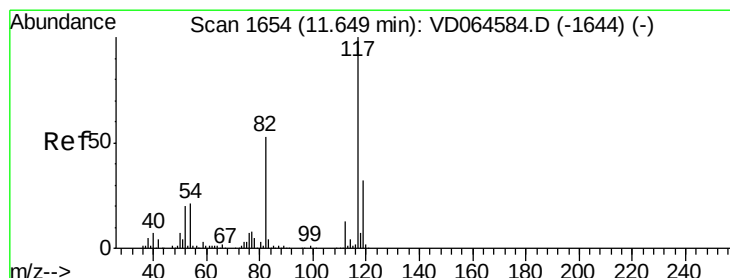
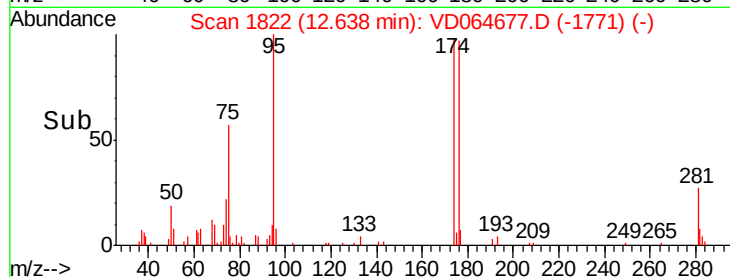
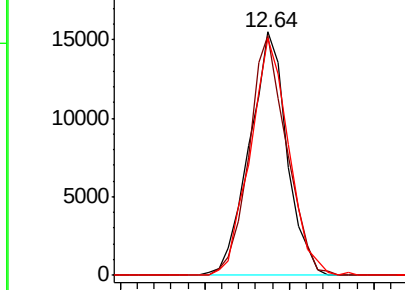
#62
4-Bromofluorobenzene
Concen: 52.686 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 23829
Ion Ratio Lower Upper
95 100
174 99.4 0.0 193.2
176 99.8 0.0 184.2

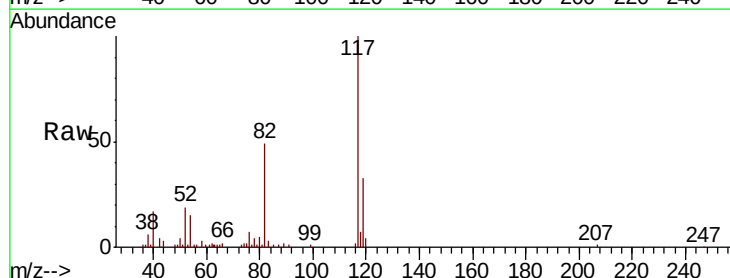


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

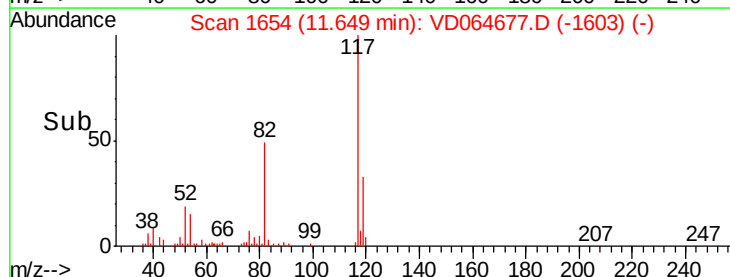
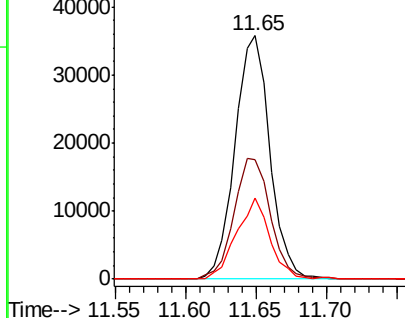


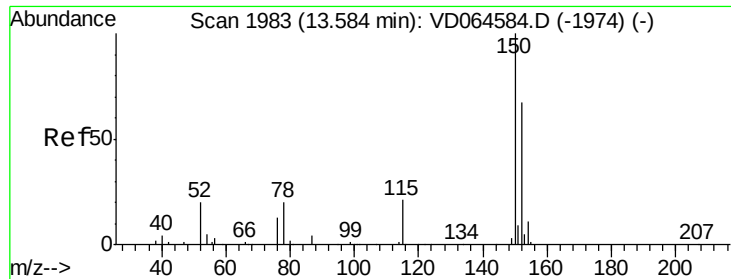
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

Tgt Ion: 117 Resp: 61568
Ion Ratio Lower Upper
117 100
82 49.0 42.2 63.4
119 33.3 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



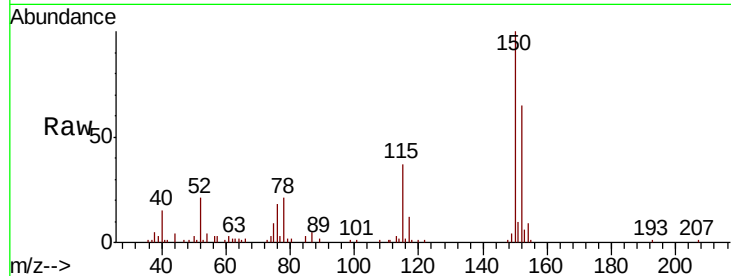


#72

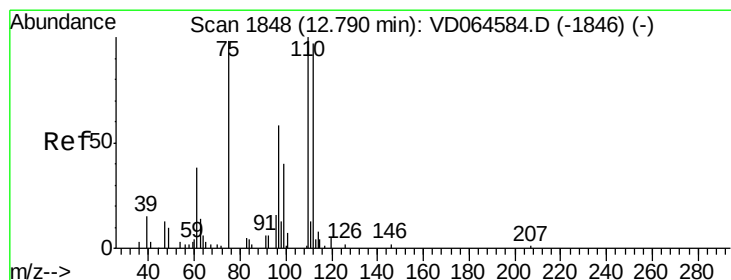
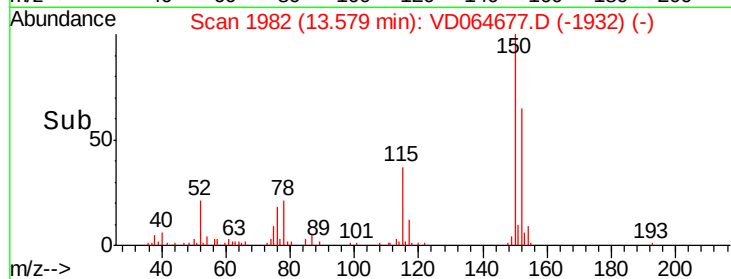
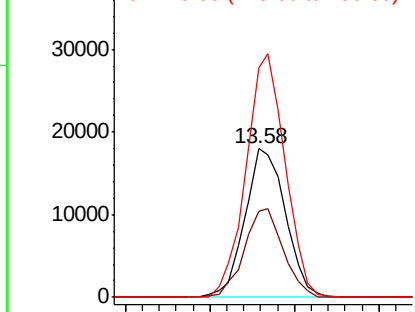
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 29978
Ion Ratio Lower Upper
152 100
115 57.4 27.8 83.4
150 157.9 0.0 351.4



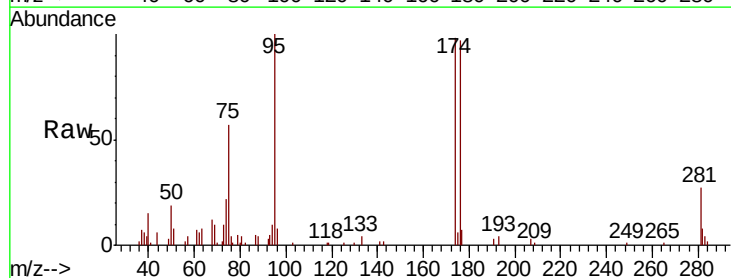
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



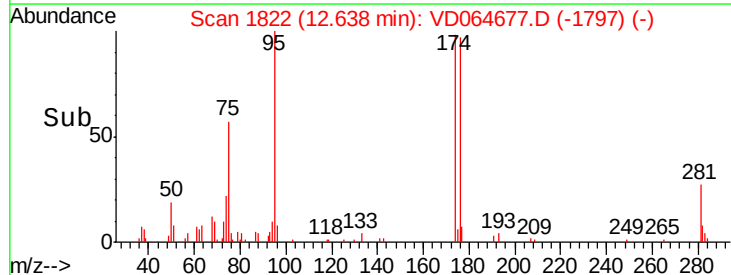
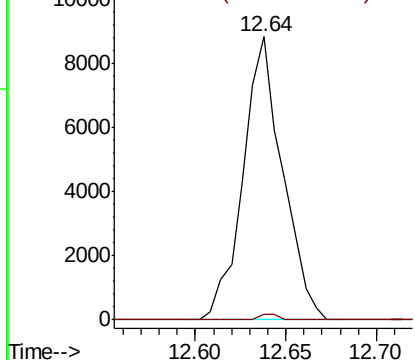
#76

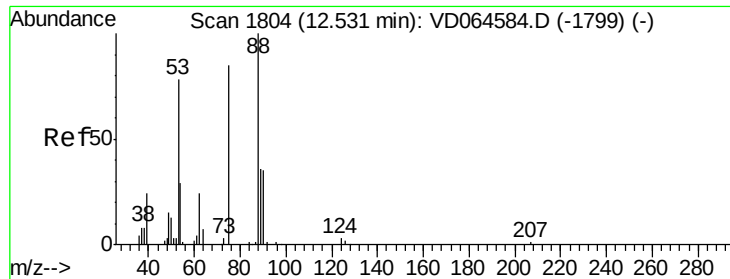
1,2,3-Trichloropropane
Concen: 56.627 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

Tgt Ion: 75 Resp: 13405
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V

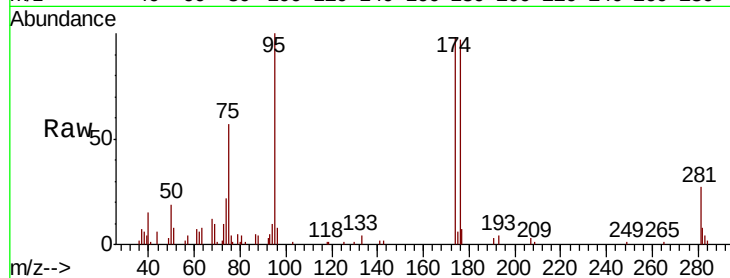




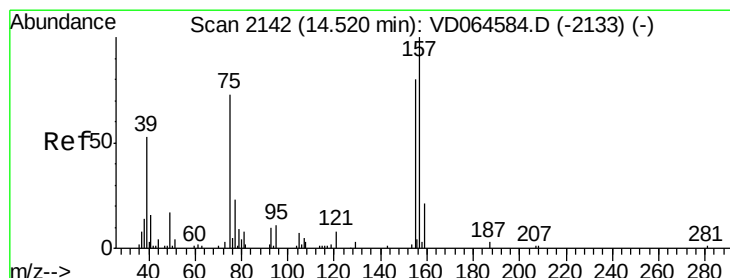
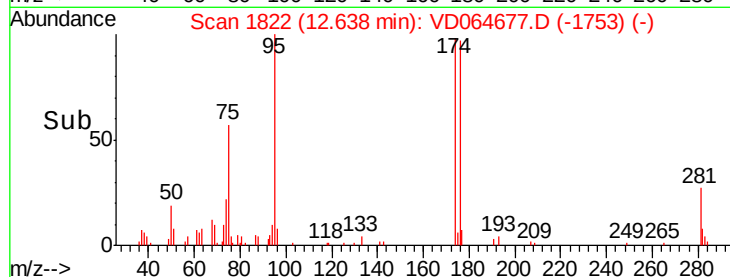
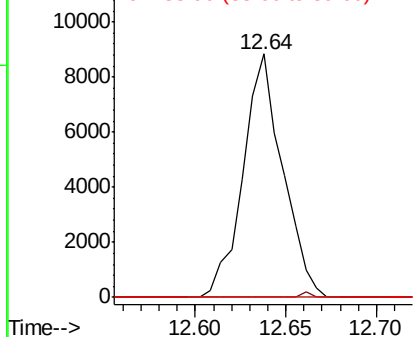
#81
trans-1,4-Dichloro-2-butene
Concen: 118.433 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.11 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 13405
Ion Ratio Lower Upper
75 100
53 0.0 78.8 118.2#
89 0.0 38.3 57.5#

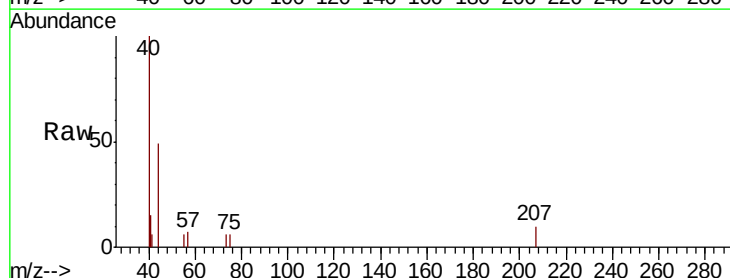


Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 88.90 (88.60 to 89.60): VDC

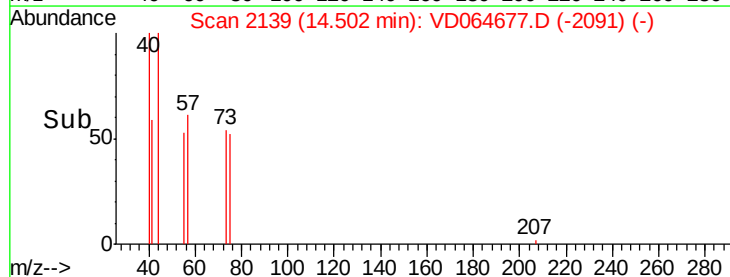
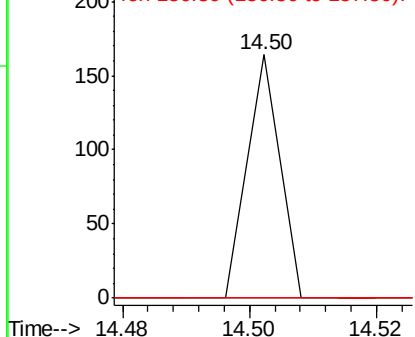


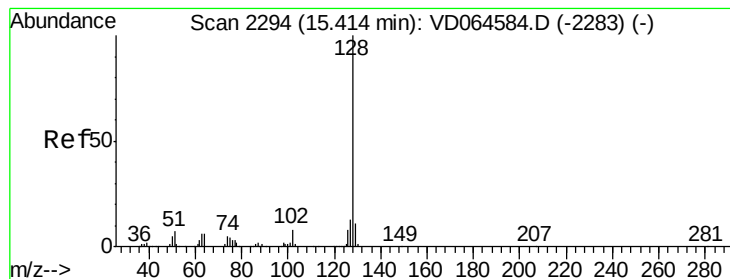
#92
1,2-Dibromo-3-Chloropropane
Concen: 1.063 ug/l
RT: 14.50 min Scan# 2139
Delta R.T. -0.02 min
Lab File: VD064677.D
Acq: 30 Dec 2019 14:40

Tgt Ion: 75 Resp: 58
Ion Ratio Lower Upper
75 100
155 0.0 48.0 144.0#
157 0.0 64.1 192.3#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 1.169 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064677.D

Acq: 30 Dec 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

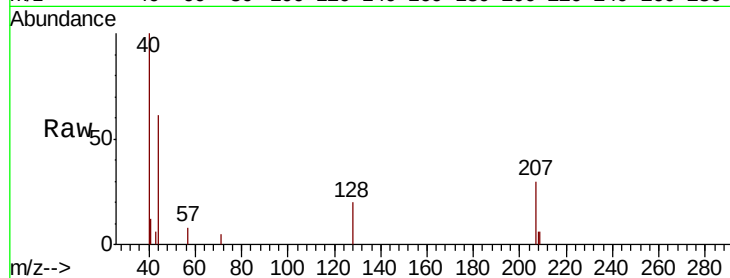
Tot Ion:128 Resp: 1165

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 5.2 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

