

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010920\
 Data File : VD064815.D
 Acq On : 09 Jan 2020 14:23
 Operator : VA/SY
 Sample : L1051-01
 Misc : 6.95G/5.00ml/MSVOA D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 09 15:42:34 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	427353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	676040	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	612352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	284207	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	194091	51.51	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.02%	
35) Dibromofluoromethane	7.92	113	176169	42.47	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	84.94%	
50) Toluene-d8	10.34	98	823721	51.86	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.72%	
62) 4-Bromofluorobenzene	12.64	95	256269	51.02	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.17	43	11461	16.938	ug/l	98
17) Carbon Disulfide	4.40	76	20399	1.678	ug/l	98
25) 2-Butanone	7.22	43	4223	4.077	ug/l #	69
30) Chloroform	7.71	83	14517	1.971	ug/l	86
31) Cyclohexane	7.98	56	15524	2.209	ug/l #	42
36) 1,1-Dichloropropene	7.98	75	32587	5.008	ug/l #	49
38) Carbon Tetrachloride	7.98	117	40208	5.795	ug/l #	16
39) Methylcyclohexane	9.36	83	34266	4.348	ug/l	96
55) 1,1,2-Trichloroethane	10.78	97	9845	3.089	ug/l #	23
56) Ethyl methacrylate	10.68	69	4736	1.190	ug/l #	1
59) 2-Hexanone	10.96	43	10101	5.918	ug/l #	28
74) N-amyl acetate	12.27	43	16983	3.912	ug/l #	59
76) 1,2,3-Trichloropropane	12.64	75	137093	61.086	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	137093	127.759	ug/l #	11
95) Naphthalene	15.41	128	21650	2.291	ug/l #	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064815.D

Acq: 09 Jan 2020 14:23

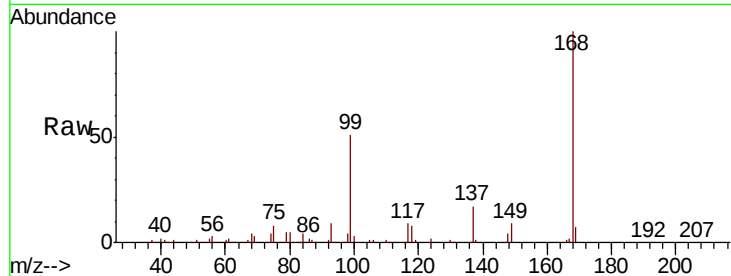
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 427353

Ion Ratio Lower Upper

168 100

99 50.7 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

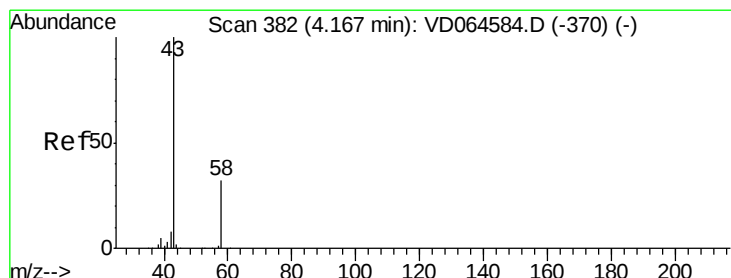
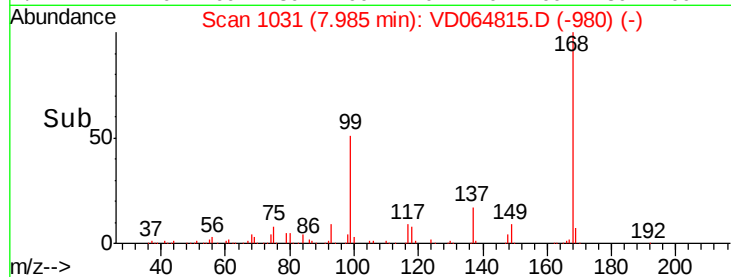
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 16.938 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064815.D

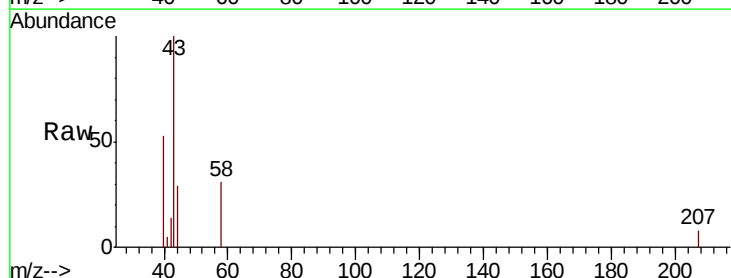
Acq: 09 Jan 2020 14:23

Tgt Ion: 43 Resp: 11461

Ion Ratio Lower Upper

43 100

58 31.0 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

5000

4000

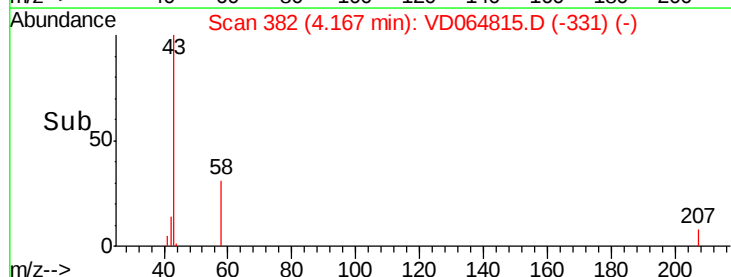
3000

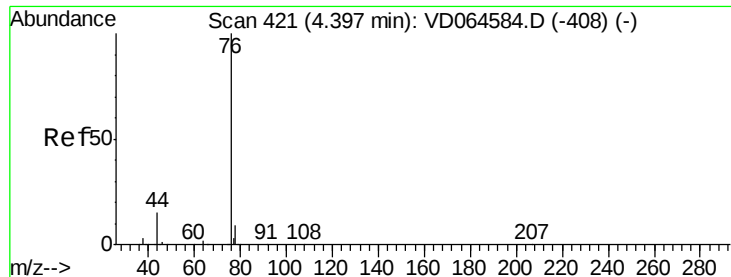
2000

1000

0

Time-->





#17

Carbon Disulfide

Concen: 1.678 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.01 min

Lab File: VD064815.D

Acq: 09 Jan 2020 14:23

Instrument :

MSVOA_D

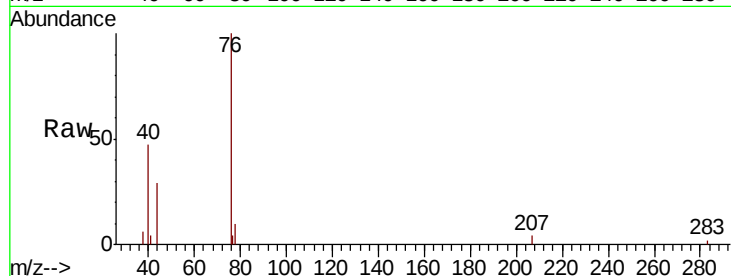
ClientSampleId :

Tot Ion: 76 Resp: 20399

Ion Ratio Lower Upper

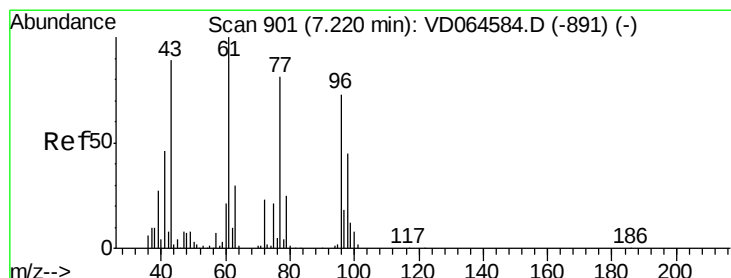
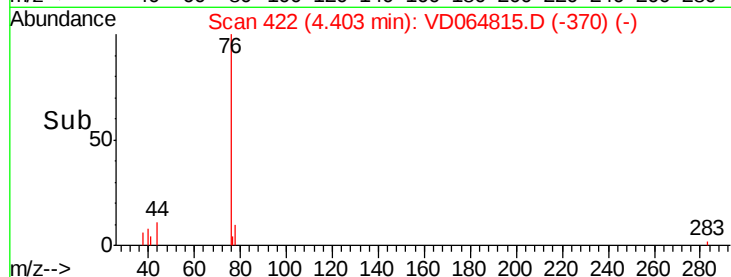
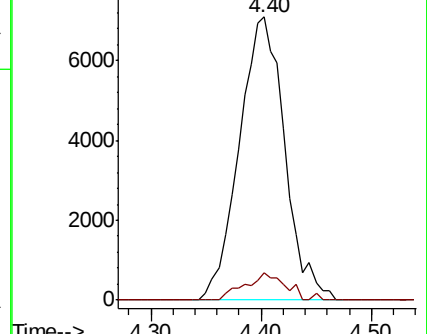
76 100

78 9.7 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#25

2-Butanone

Concen: 4.077 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064815.D

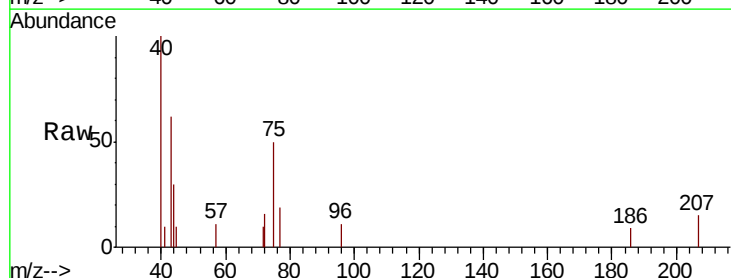
Acq: 09 Jan 2020 14:23

Tgt Ion: 43 Resp: 4223

Ion Ratio Lower Upper

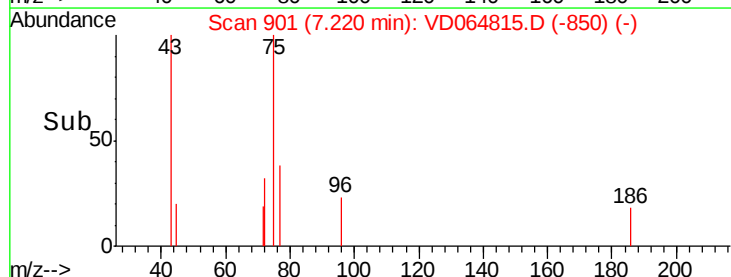
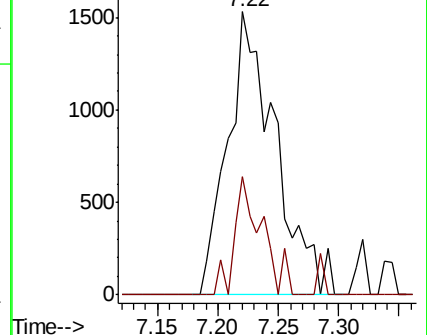
43 100

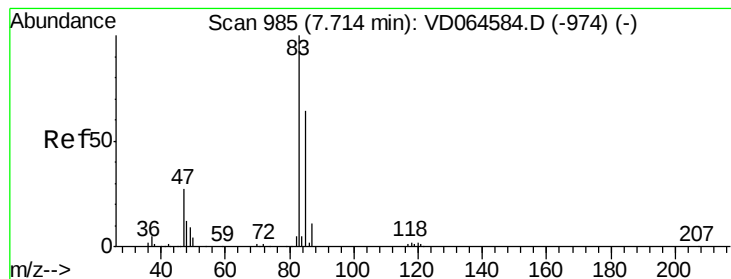
72 41.6 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#30

Chloroform

Concen: 1.971 ug/l

RT: 7.71 min Scan# 984

Delta R.T. -0.01 min

Lab File: VD064815.D

Acq: 09 Jan 2020 14:23

Instrument :

MSVOA_D

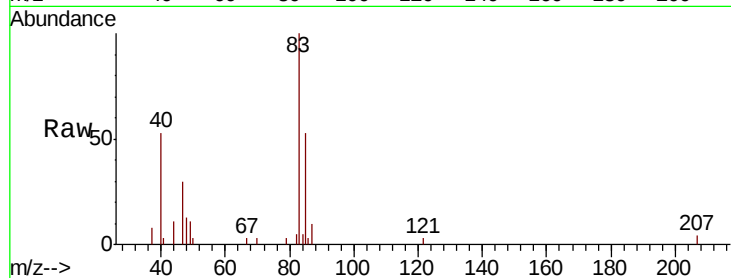
ClientSampleId :

Tot Ion: 83 Resp: 14517

Ion Ratio Lower Upper

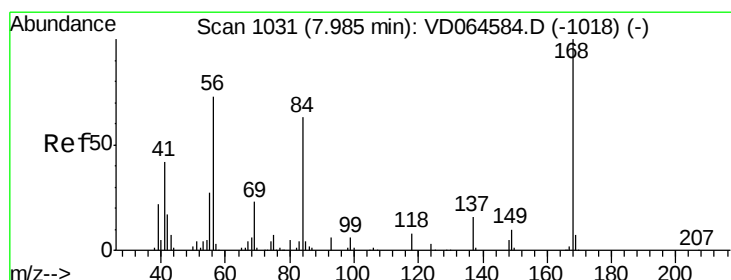
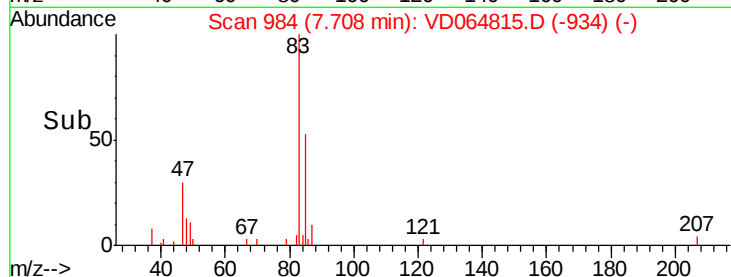
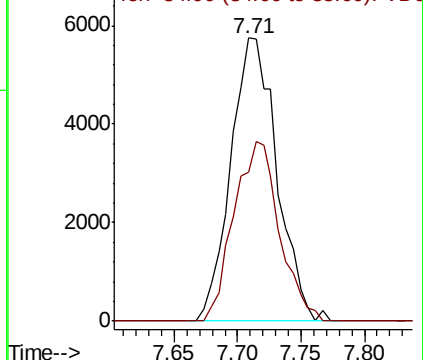
83 100

85 52.8 51.1 76.7



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC



#31

Cyclohexane

Concen: 2.209 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064815.D

Acq: 09 Jan 2020 14:23

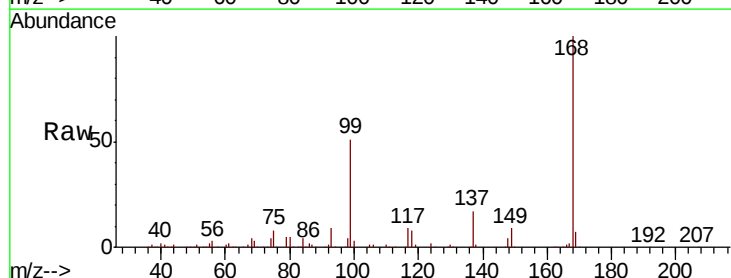
Tgt Ion: 56 Resp: 15524

Ion Ratio Lower Upper

56 100

69 106.9 24.7 37.1#

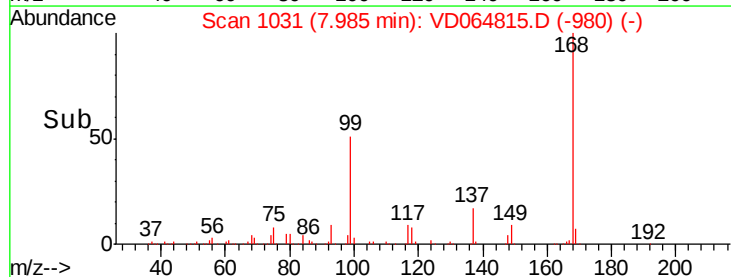
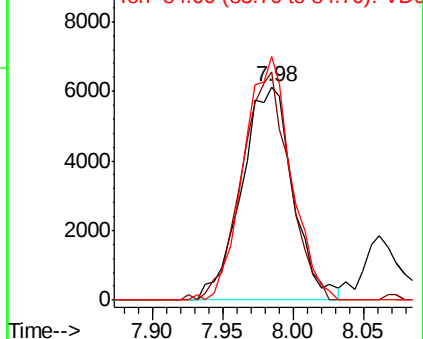
84 114.4 69.4 104.2#

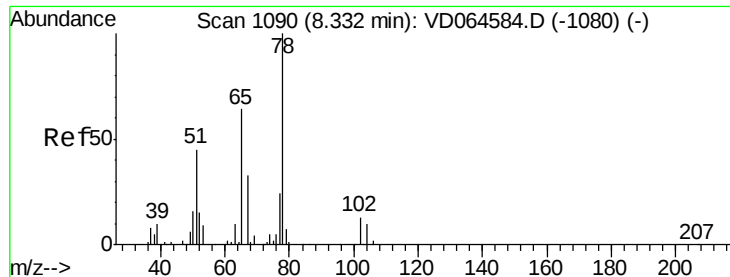


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 51.506 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064815.D

Acq: 09 Jan 2020 14:23

Instrument :

MSVOA_D

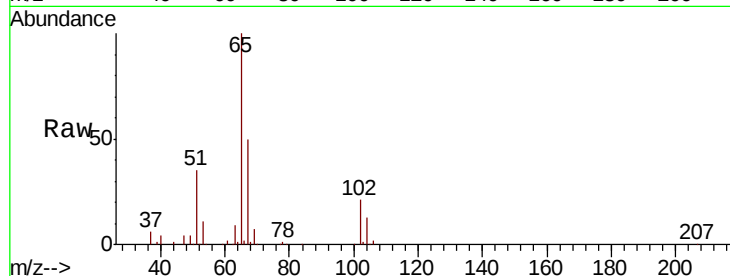
ClientSampleId :

Tot Ion: 65 Resp: 194091

Ion Ratio Lower Upper

65 100

67 50.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): V

Ion 66.90 (66.60 to 67.60): V

8.33

100000

80000

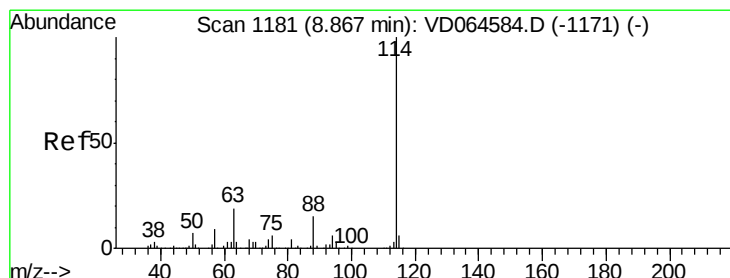
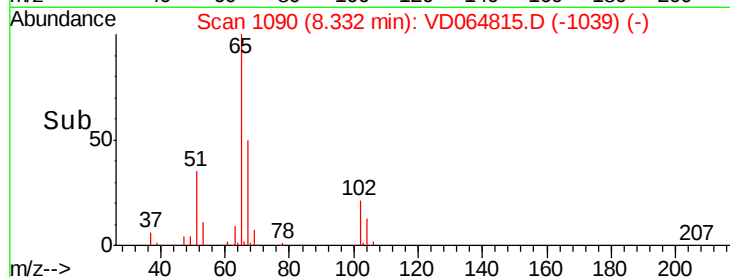
60000

40000

20000

0

Time--> 8.20 8.30 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064815.D

Acq: 09 Jan 2020 14:23

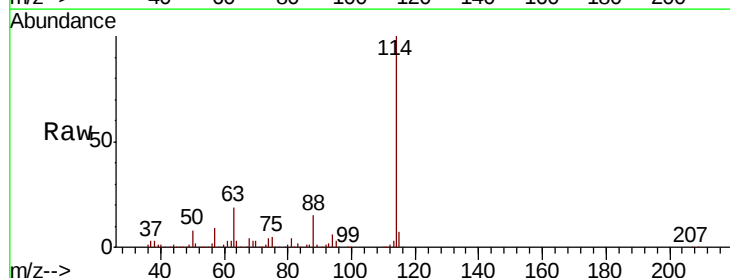
Tgt Ion:114 Resp: 676040

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.0

88 14.9 0.0 29.2



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

8.87

400000

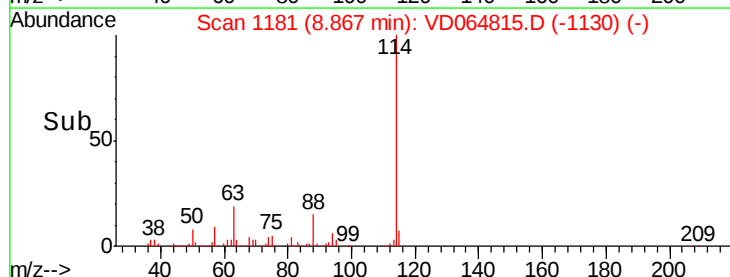
300000

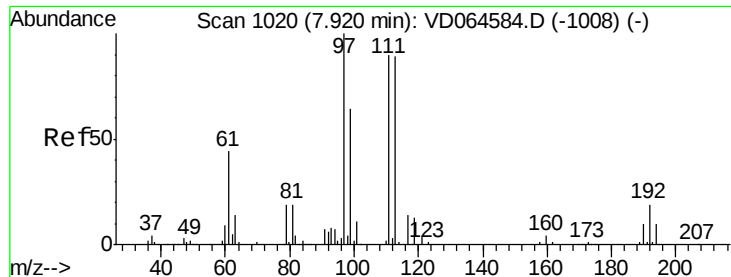
200000

100000

0

Time--> 8.80 8.90 9.00

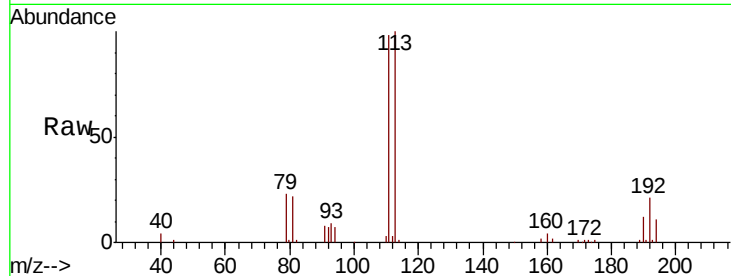




#35
 Dibromofluoromethane
 Concen: 42.475 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064815.D
 Acq: 09 Jan 2020 14:23

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.6	121.0
192	21.4	17.9	26.9

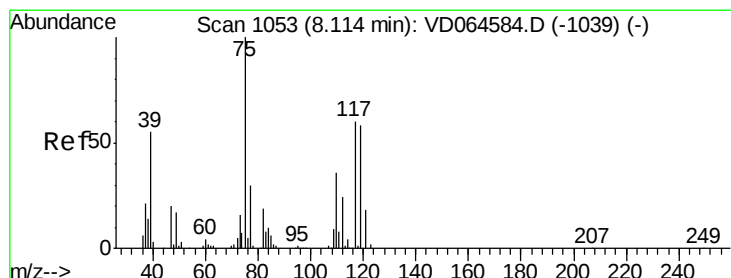
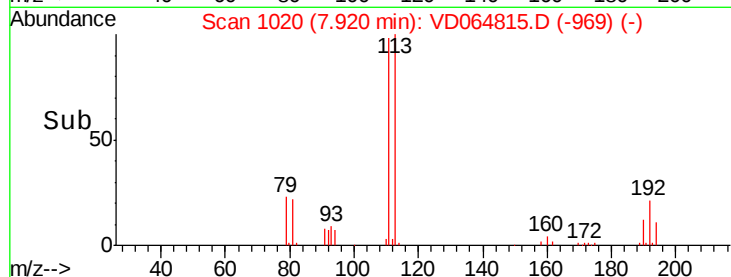
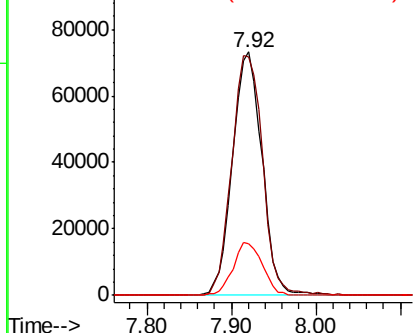


Abundance

Ion 112.80 (112.50 to 113.50): V

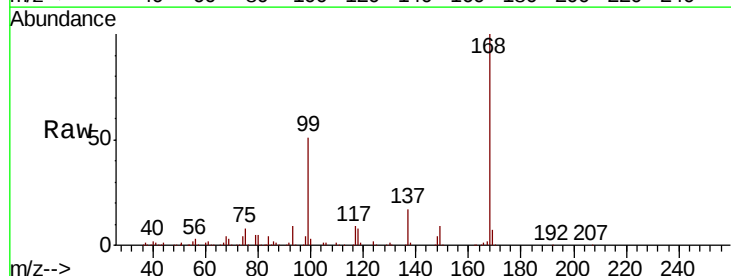
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.008 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064815.D
 Acq: 09 Jan 2020 14:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.1	54.1#
77	0.0	24.2	36.4#

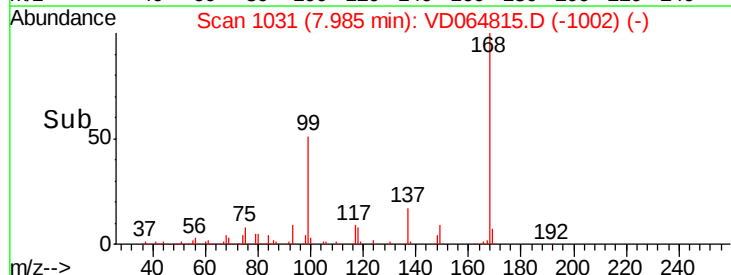
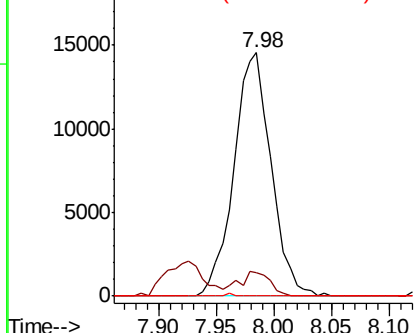


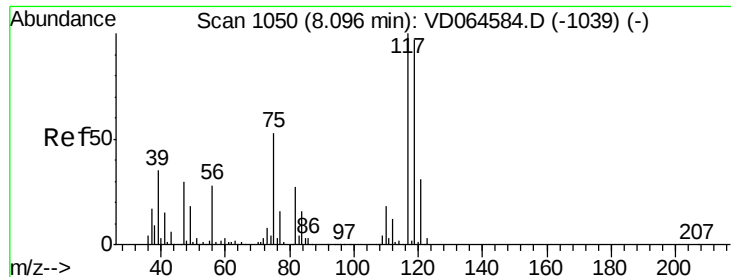
Abundance

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

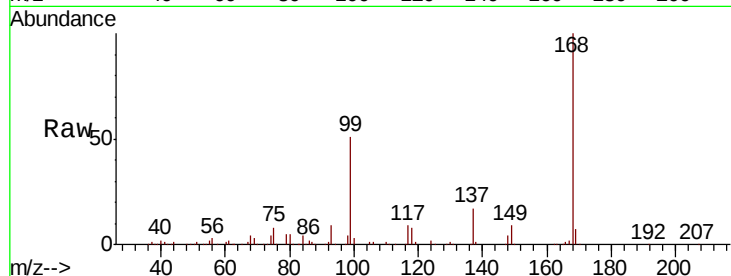




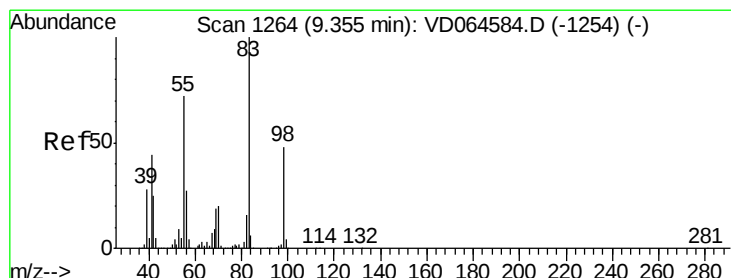
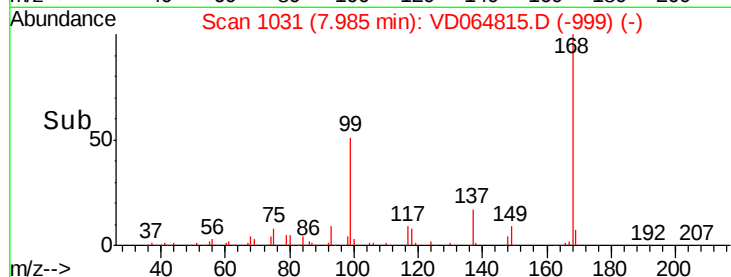
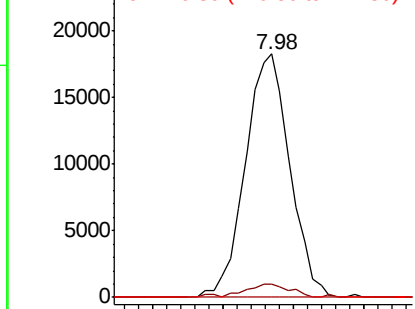
#38
Carbon Tetrachloride
Concen: 5.795 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064815.D
Acq: 09 Jan 2020 14:23

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 40208
Ion Ratio Lower Upper
117 100
119 5.4 77.3 115.9#
121 0.0 25.0 37.6#

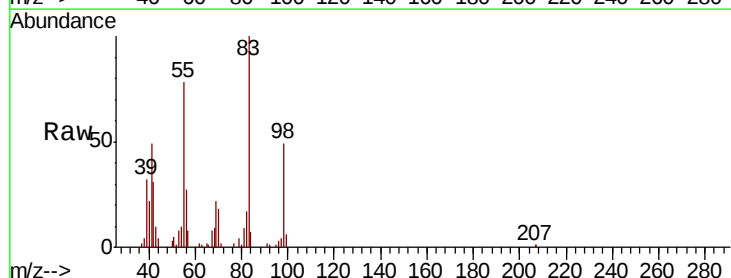


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

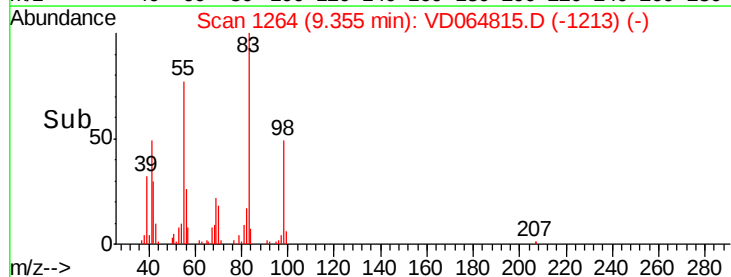
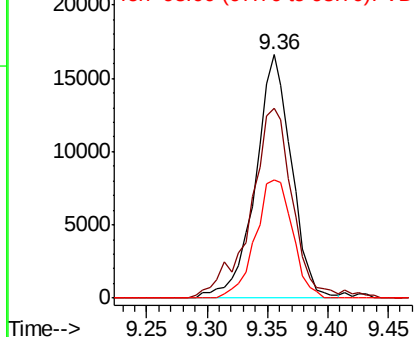


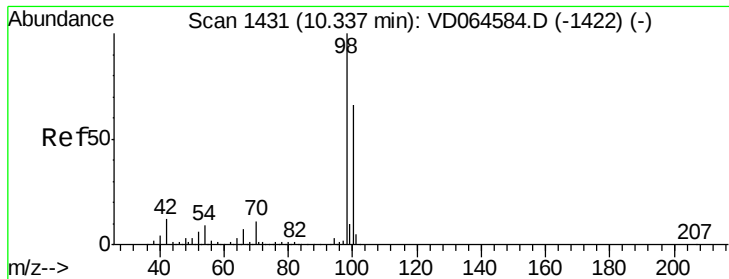
#39
Methylcyclohexane
Concen: 4.348 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064815.D
Acq: 09 Jan 2020 14:23

Tgt Ion: 83 Resp: 34266
Ion Ratio Lower Upper
83 100
55 78.0 57.8 86.6
98 48.7 38.7 58.1



Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC





#50

Toluene-d8

Concen: 51.855 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064815.D

Acq: 09 Jan 2020 14:23

Instrument :

MSVOA_D

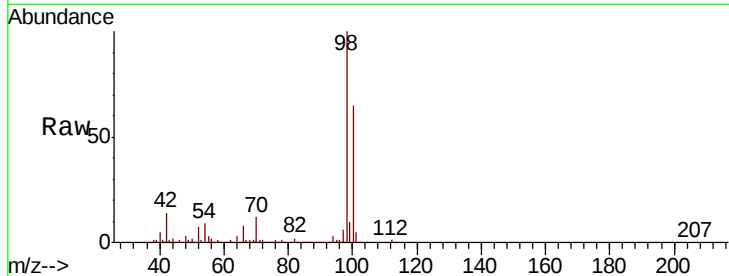
ClientSampleId :

Tot Ion: 98 Resp: 823721

Ion Ratio Lower Upper

98 100

100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

400000

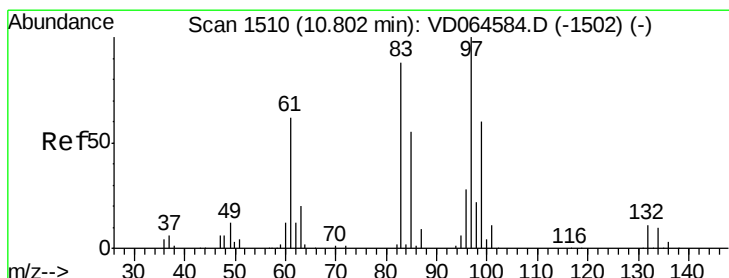
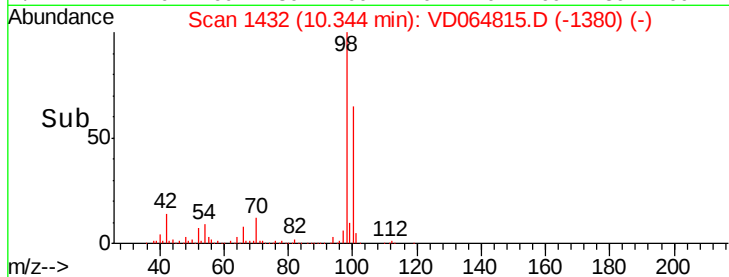
300000

200000

100000

0

Time--> 10.20 10.30 10.40 10.50



#55

1,1,2-Trichloroethane

Concen: 3.089 ug/l

RT: 10.78 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VD064815.D

Acq: 09 Jan 2020 14:23

Tgt Ion: 97 Resp: 9845

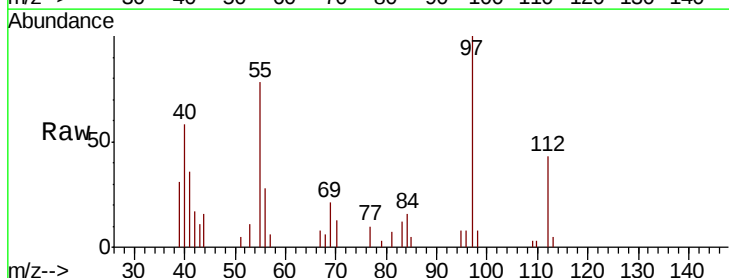
Ion Ratio Lower Upper

97 100

83 11.7 70.2 105.4#

85 5.4 44.0 66.0#

99 0.0 47.8 71.6#



Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

8000

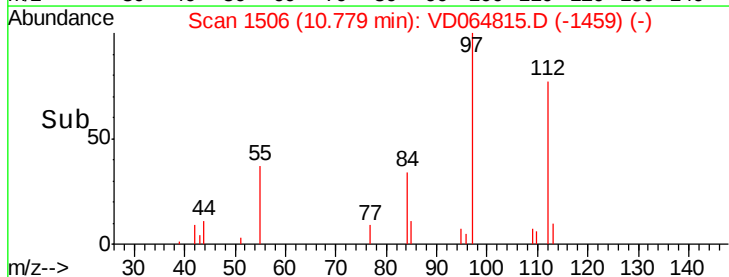
6000

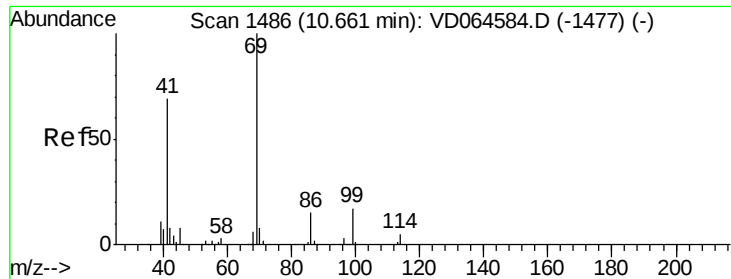
4000

2000

0

Time--> 10.70 10.75 10.80 10.85





#56

Ethyl methacrylate

Concen: 1.190 ug/l

RT: 10.68 min Scan# 1489

Delta R.T. 0.02 min

Lab File: VD064815.D

Acq: 09 Jan 2020 14:23

Instrument :

MSVOA_D

ClientSampled :

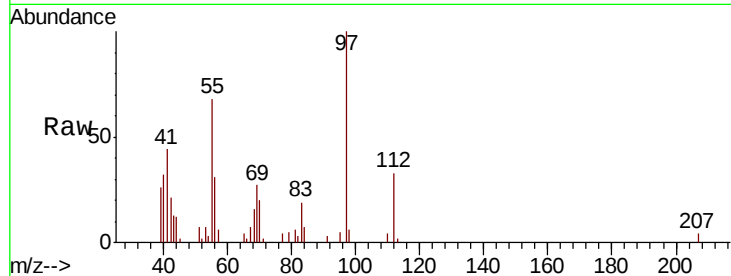
Tot Ion: 69 Resp: 4736

Ion Ratio Lower Upper

69 100

41 180.4 55.3 82.9#

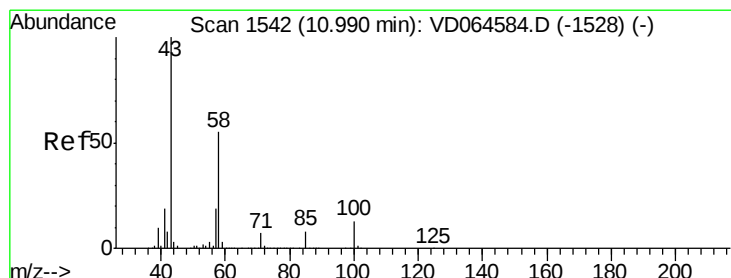
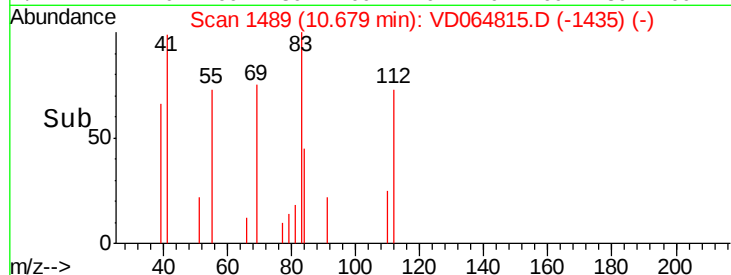
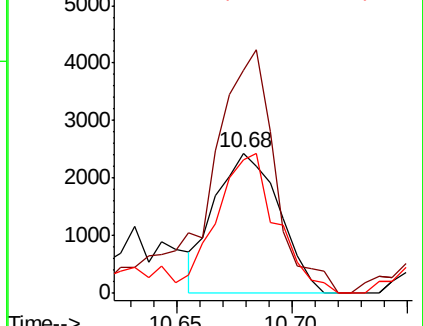
39 93.2 33.8 50.8#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#59

2-Hexanone

Concen: 5.918 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.03 min

Lab File: VD064815.D

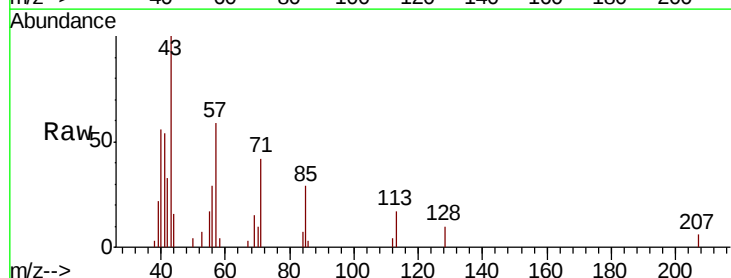
Acq: 09 Jan 2020 14:23

Tgt Ion: 43 Resp: 10101

Ion Ratio Lower Upper

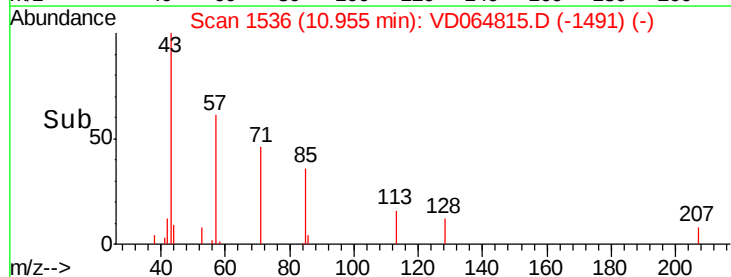
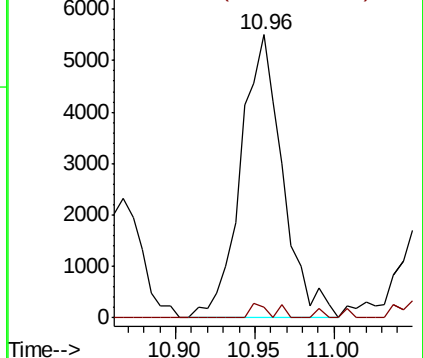
43 100

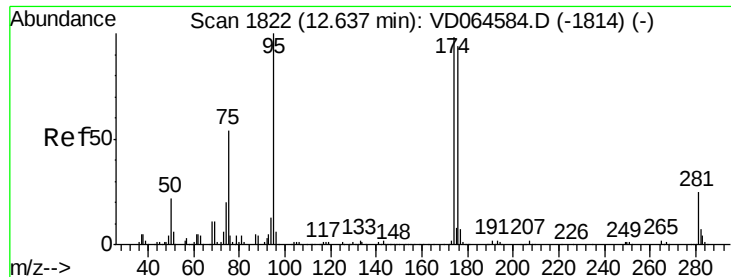
58 1.7 26.4 79.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 51.019 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064815.D

Acq: 09 Jan 2020 14:23

Instrument :

MSVOA_D

ClientSampled :

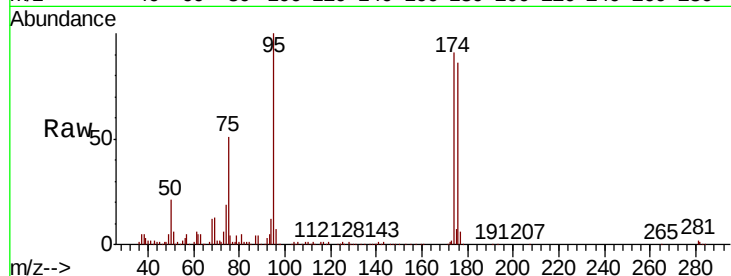
Tot Ion: 95 Resp: 256269

Ion Ratio Lower Upper

95 100

174 92.7 0.0 193.2

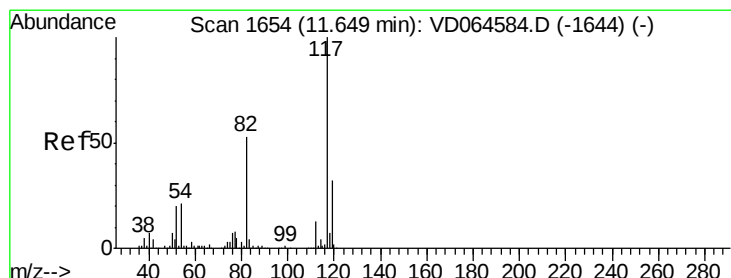
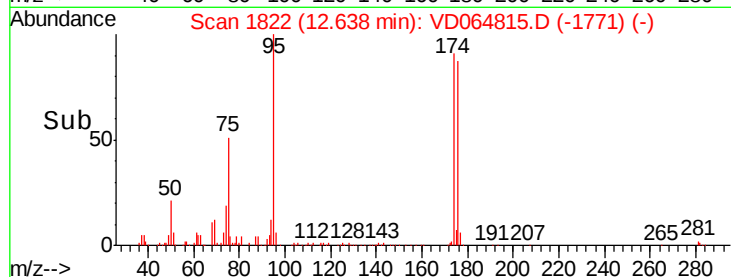
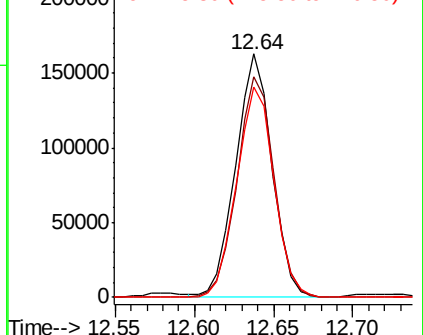
176 89.6 0.0 184.2



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: VD064815.D

Acq: 09 Jan 2020 14:23

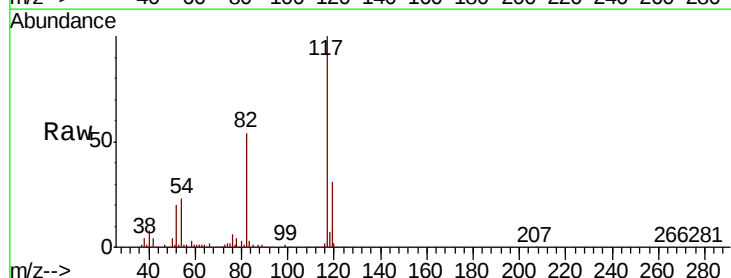
Tgt Ion: 117 Resp: 612352

Ion Ratio Lower Upper

117 100

82 53.7 42.2 63.4

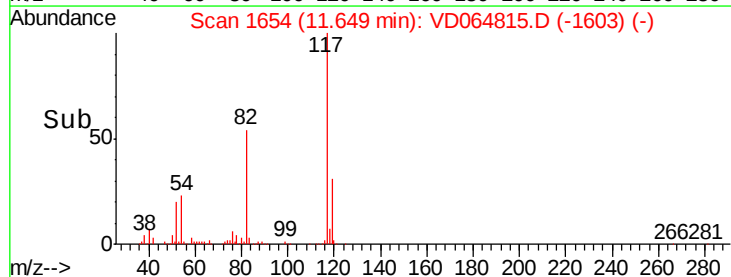
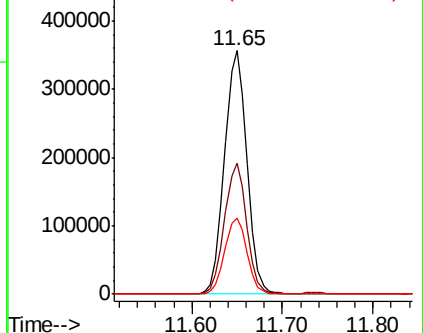
119 31.0 26.0 39.0

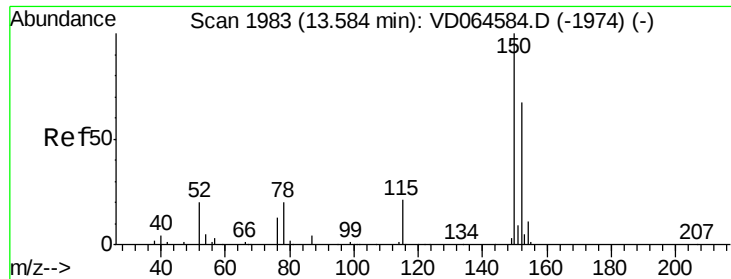


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



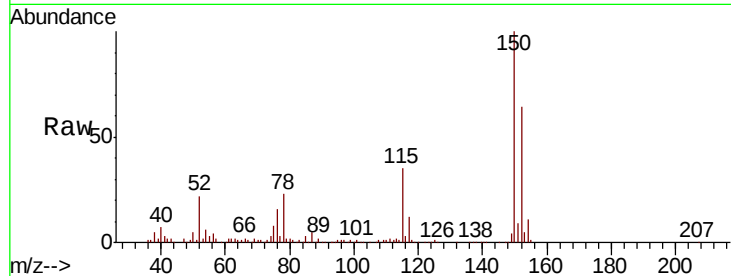


#72

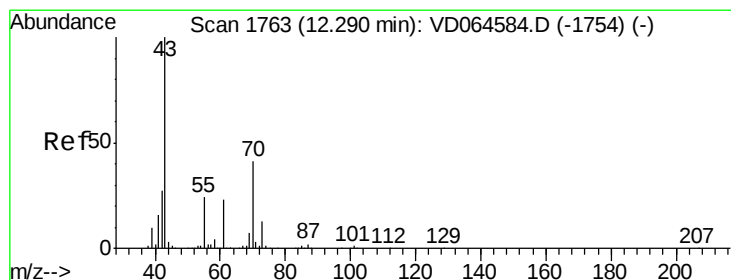
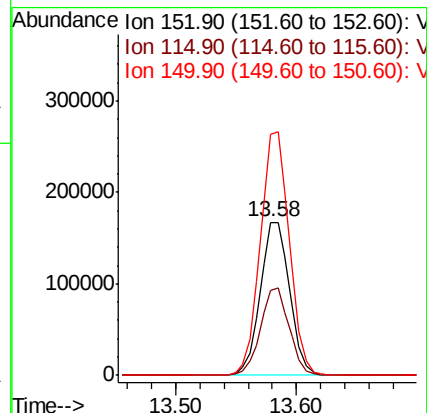
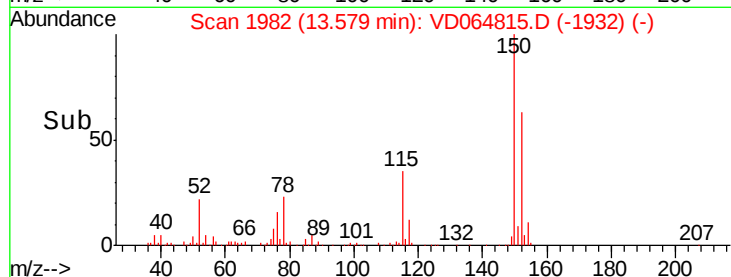
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD064815.D
Acq: 09 Jan 2020 14:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.6	27.8	83.4
150	157.1	0.0	351.4



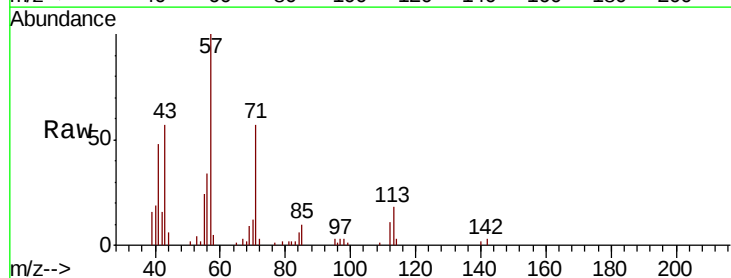
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



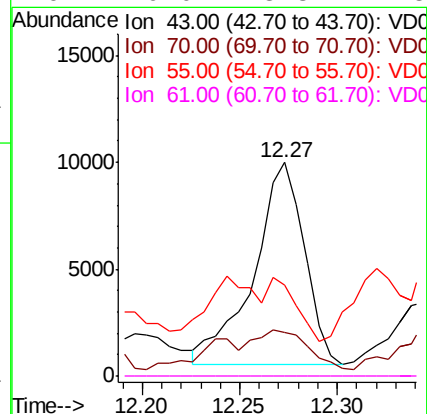
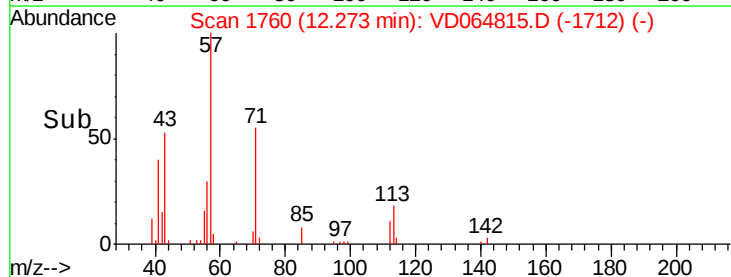
#74

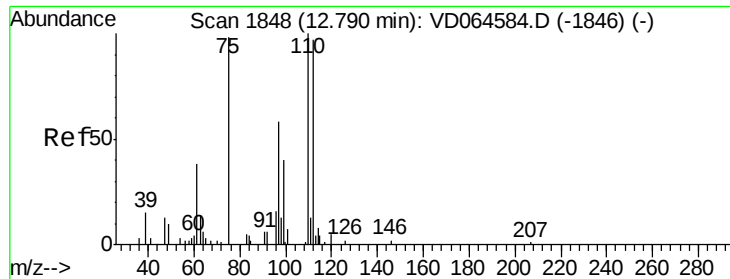
N-ethyl acetate
Concen: 3.912 ug/l
RT: 12.27 min Scan# 1760
Delta R.T. -0.02 min
Lab File: VD064815.D
Acq: 09 Jan 2020 14:23

Tgt Ion	Ratio	Lower	Upper
43	100		
70	21.2	33.4	50.0#
55	0.0	19.4	29.0#
61	0.0	18.3	27.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 61.00 (60.70 to 61.70): VDC

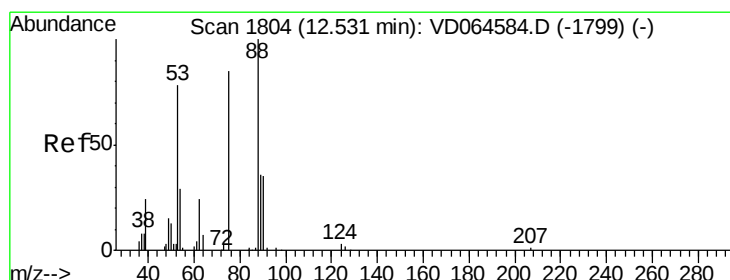
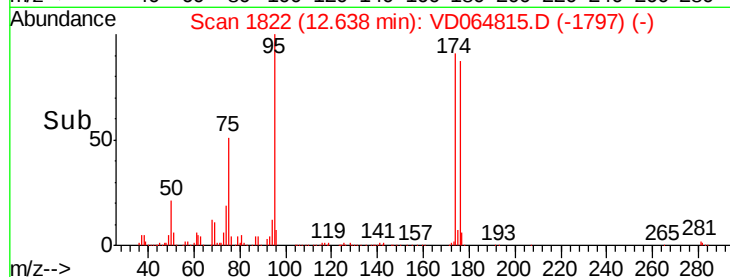
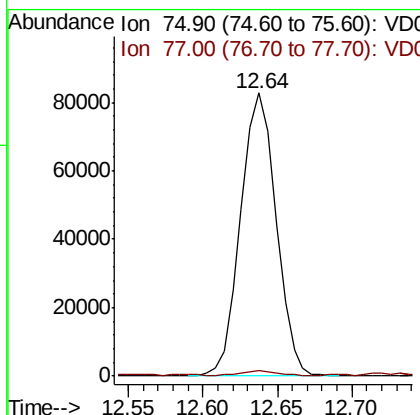
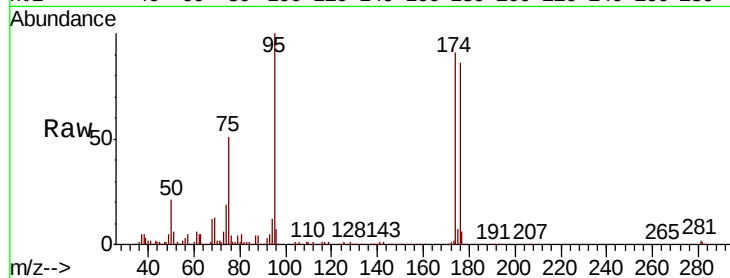




#76
 1,2,3-Trichloropropane
 Concen: 61.086 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064815.D
 Acq: 09 Jan 2020 14:23

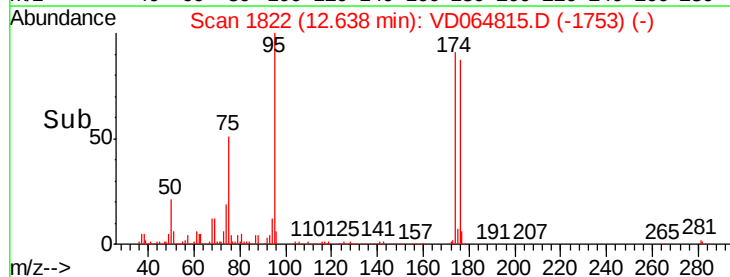
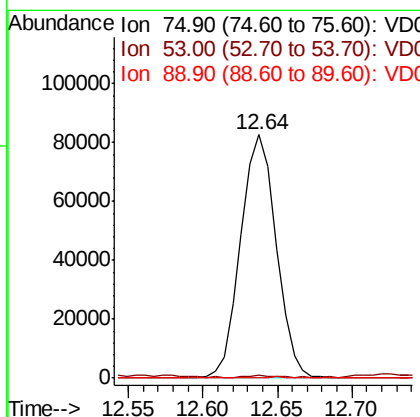
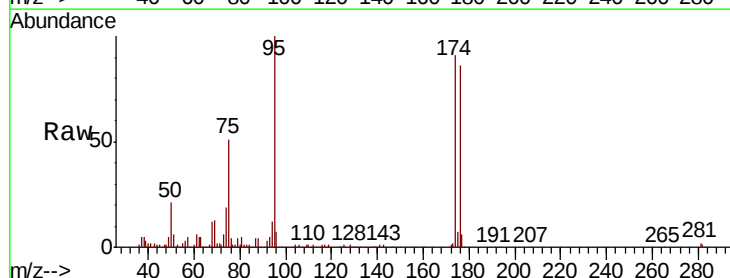
Instrument :
 MSVOA_D
 ClientSampleId :

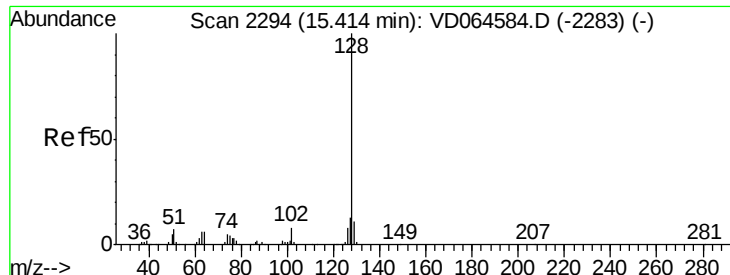
Tot Ion: 75 Resp: 137093
 Ion Ratio Lower Upper
 75 100
 77 2.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 127.759 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD064815.D
 Acq: 09 Jan 2020 14:23

Tgt Ion: 75 Resp: 137093
 Ion Ratio Lower Upper
 75 100
 53 0.9 78.8 118.2#
 89 0.2 38.3 57.5#

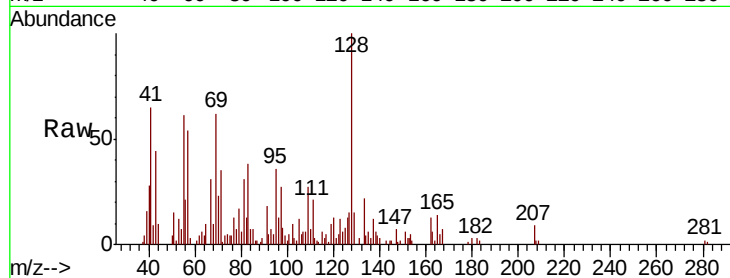




#95
Naphthalene
Concen: 2.291 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD064815.D
Acq: 09 Jan 2020 14:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.9	10.3	15.5#
129	10.5	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

