

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012420\
 Data File : VD064952.D
 Acq On : 24 Jan 2020 19:33
 Operator : VA/SY
 Sample : L1242-08
 Misc : 5.08G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 25 02:40:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	429134	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	700638	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	641210	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	262358	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	211831	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
35) Dibromofluoromethane	7.92	113	221062	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
50) Toluene-d8	10.34	98	834428	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	
62) 4-Bromofluorobenzene	12.64	95	254048	48.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.70%	

Target Compounds

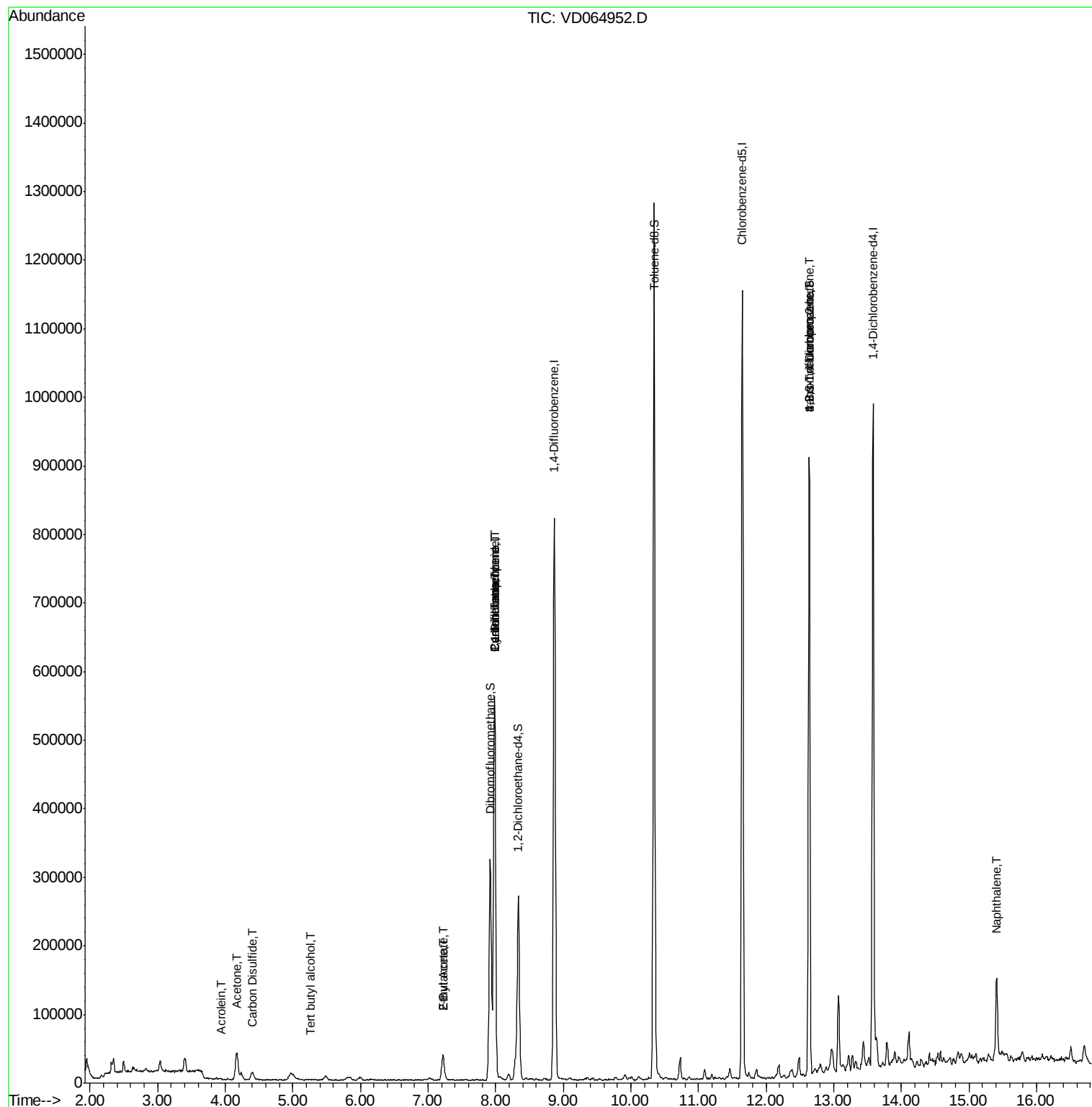
					Qvalue
11) Tert butyl alcohol	5.26	59	936	4.115 ug/l #	74
13) Acrolein	3.93	56	1472	5.162 ug/l	84
16) Acetone	4.17	43	71924	75.239 ug/l	97
17) Carbon Disulfide	4.41	76	25382	2.065 ug/l #	92
20) Methylene Chloride	4.96	84	5554	Below Cal #	85
25) 2-Butanone	7.22	43	26190	23.550 ug/l	95
31) Cyclohexane	7.98	56	10523	1.467 ug/l #	41
36) 1,1-Dichloropropene	7.98	75	32046	4.743 ug/l #	50
37) Ethyl Acetate	7.22	43	26190	9.385 ug/l #	75
38) Carbon Tetrachloride	7.98	117	40754	5.707 ug/l #	17
76) 1,2,3-Trichloropropane	12.64	75	141693	65.068 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	141693	138.936 ug/l #	9
95) Naphthalene	15.41	128	107184	13.432 ug/l	98

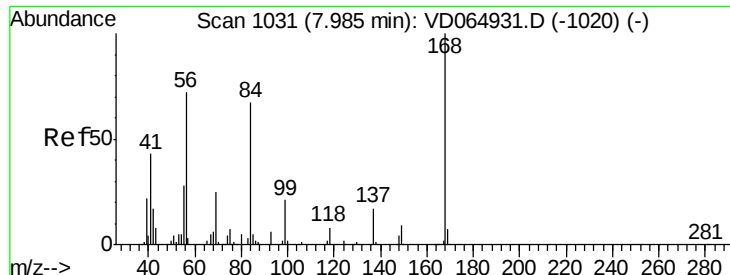
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064952.D

Acq: 24 Jan 2020 19:33

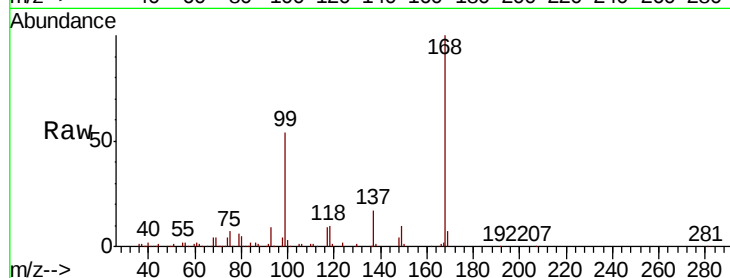
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 429134

Ion Ratio Lower Upper

168 100

99 54.0 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

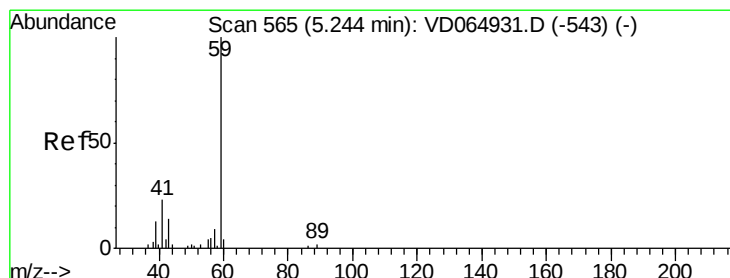
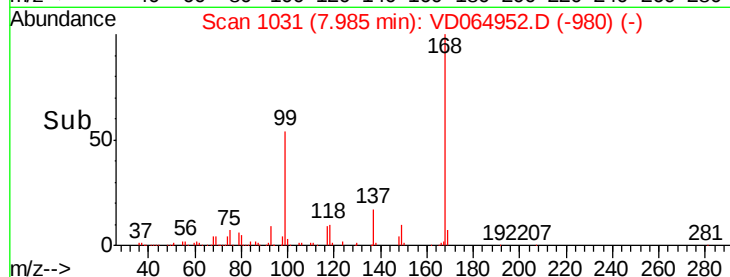
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.115 ug/l

RT: 5.26 min Scan# 567

Delta R.T. 0.01 min

Lab File: VD064952.D

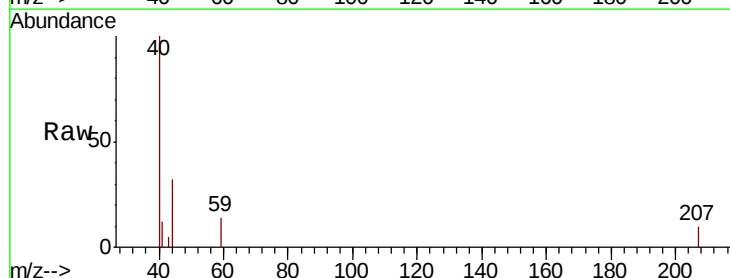
Acq: 24 Jan 2020 19:33

Tgt Ion: 59 Resp: 936

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.26

500

400

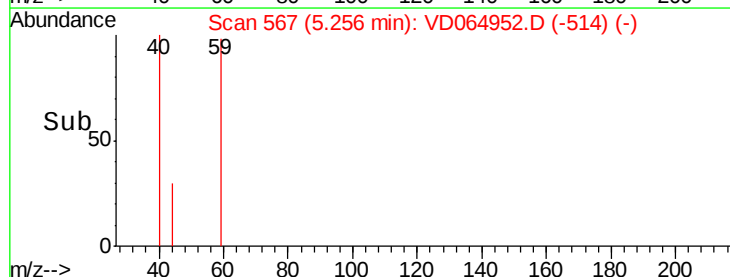
300

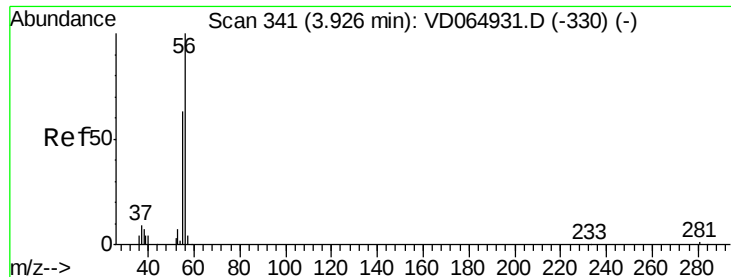
200

100

0

Time-->





#13

Acrolein

Concen: 5.162 ug/l

RT: 3.93 min Scan# 342

Delta R.T. 0.01 min

Lab File: VD064952.D

Acq: 24 Jan 2020 19:33

Instrument :

MSVOA_D

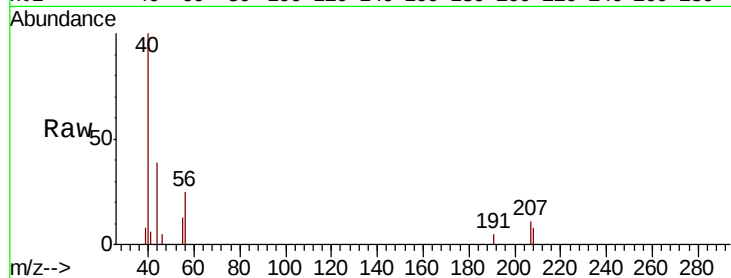
ClientSampleId :

Tot Ion: 56 Resp: 1472

Ion Ratio Lower Upper

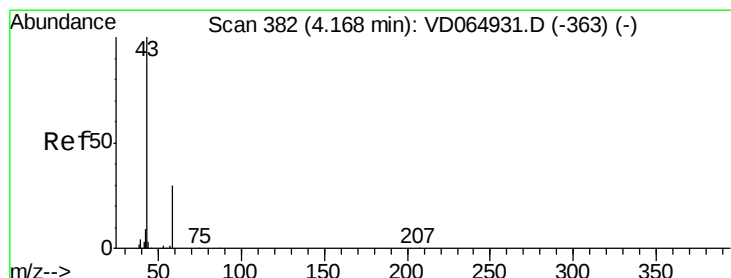
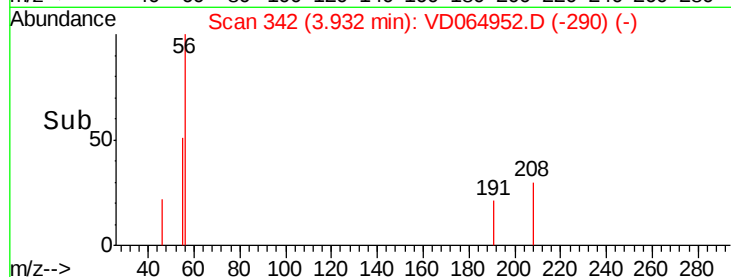
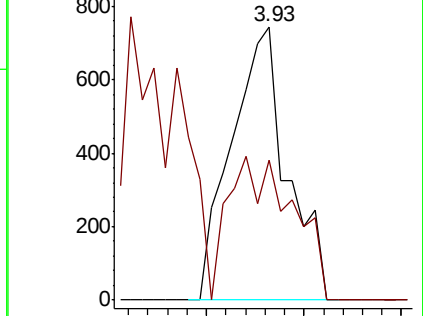
56 100

55 60.9 59.7 89.5



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 75.239 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064952.D

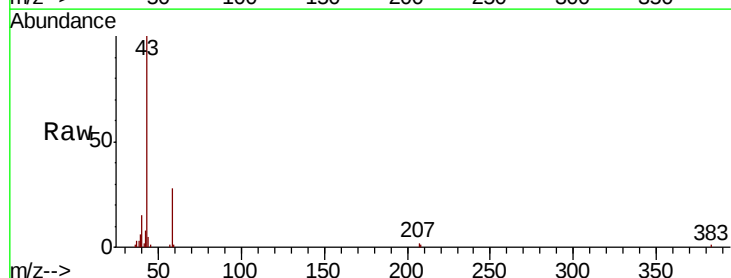
Acq: 24 Jan 2020 19:33

Tgt Ion: 43 Resp: 71924

Ion Ratio Lower Upper

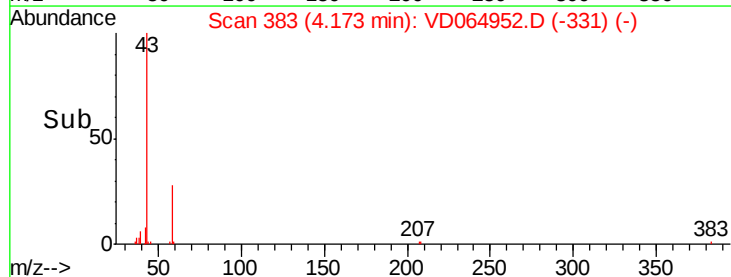
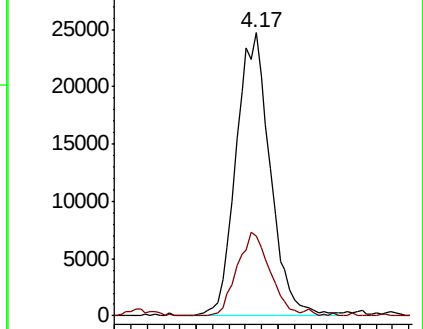
43 100

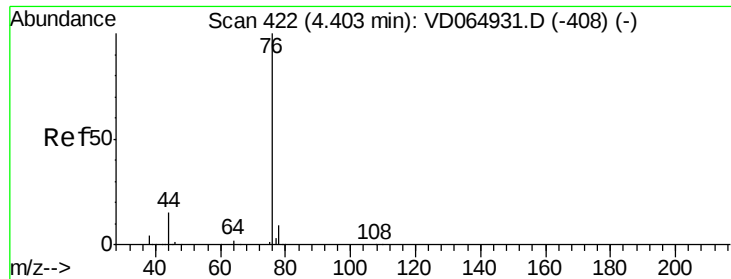
58 28.0 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 2.065 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.01 min

Lab File: VD064952.D

Acq: 24 Jan 2020 19:33

Instrument :

MSVOA_D

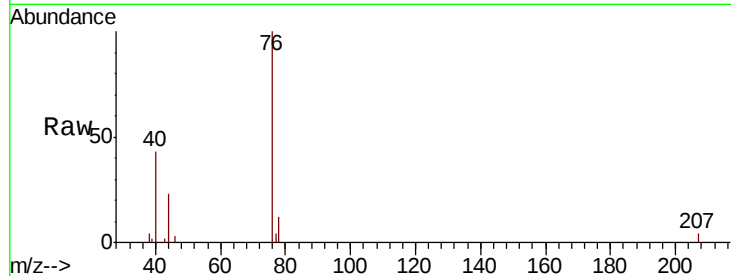
ClientSampleId :

Tot Ion: 76 Resp: 25382

Ion Ratio Lower Upper

76 100

78 11.9 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.41

8000

6000

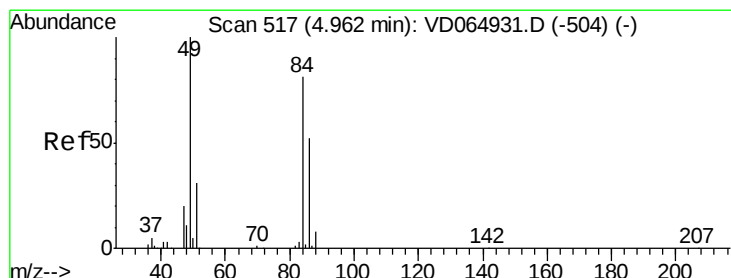
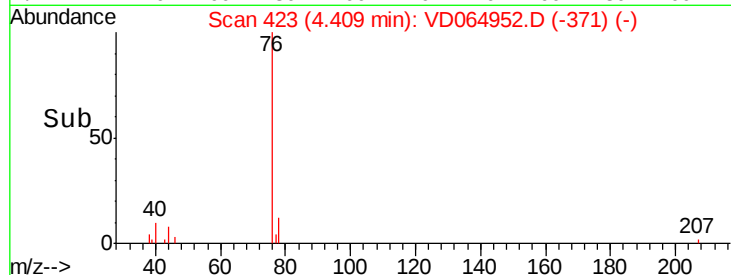
4000

2000

0

Time-->

4.30 4.40 4.50



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD064952.D

Acq: 24 Jan 2020 19:33

Tgt Ion: 84 Resp: 5554

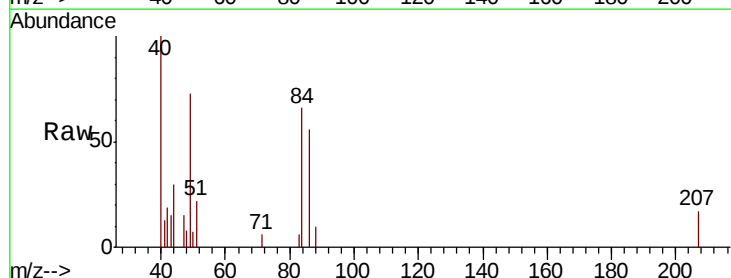
Ion Ratio Lower Upper

84 100

49 111.3 98.4 147.6

51 32.9 30.8 46.2

86 85.9 51.0 76.6#



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

4.96

3000

2500

2000

1500

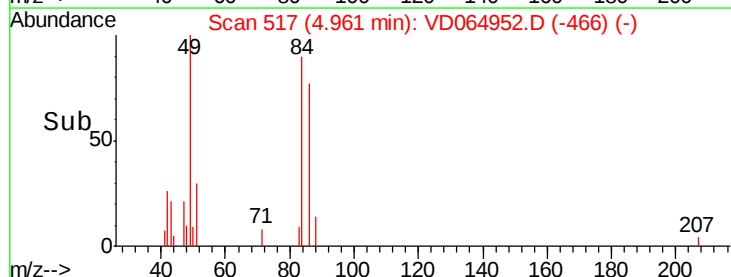
1000

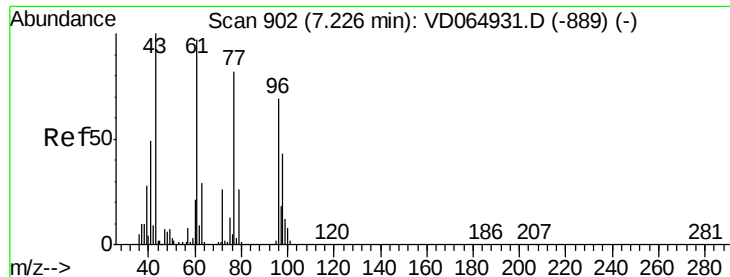
500

0

Time-->

4.85 4.90 4.95 5.00 5.05

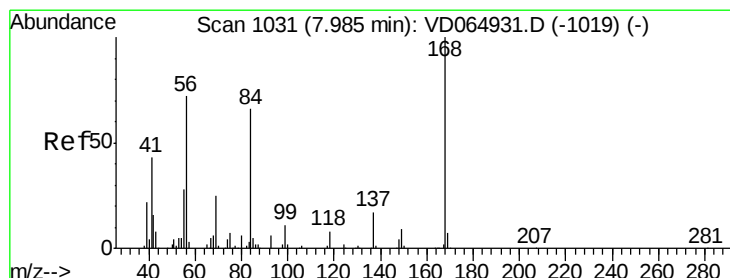
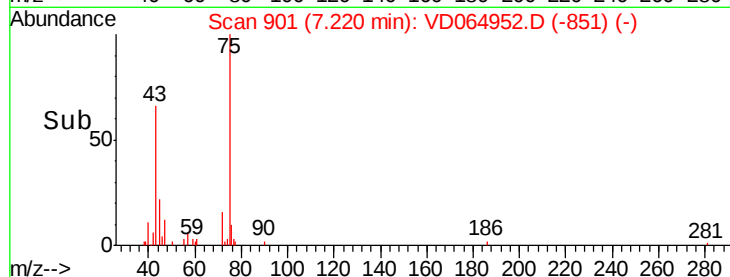
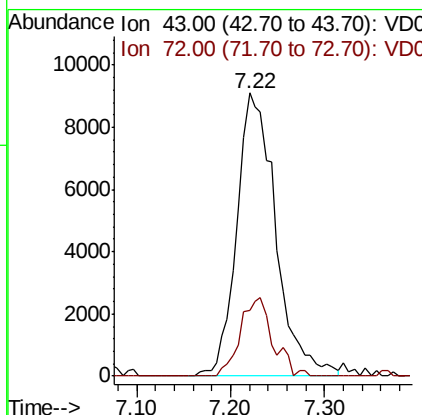
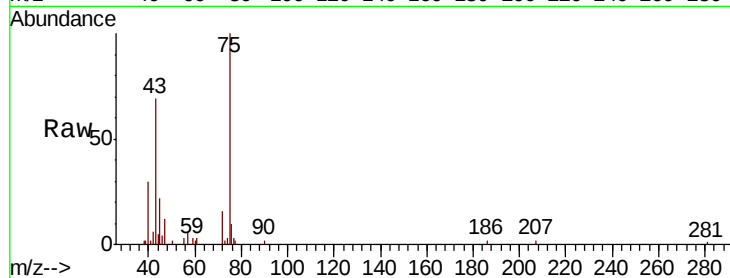




#25
2-Butanone
Concen: 23.550 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.01 min
Lab File: VD064952.D
Acq: 24 Jan 2020 19:33

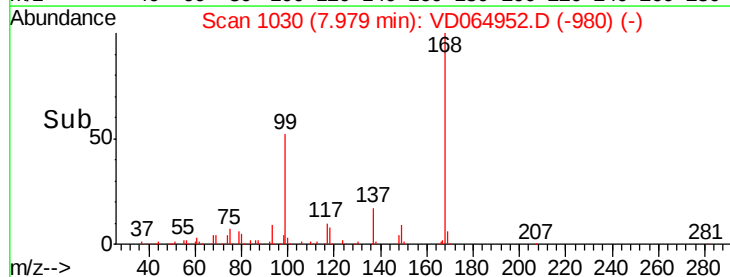
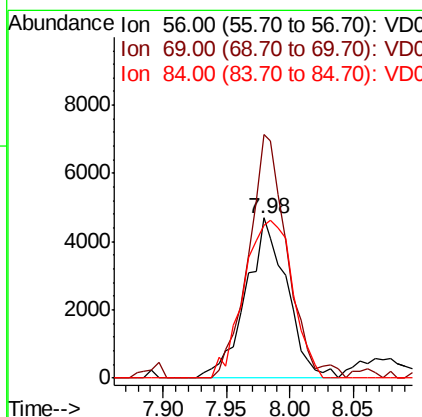
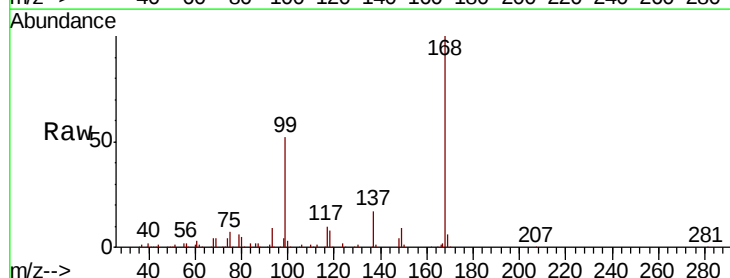
Instrument :
MSVOA_D
ClientSampled :

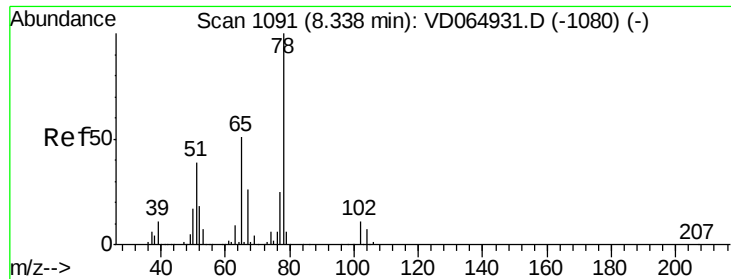
Tot Ion: 43 Resp: 26190
Ion Ratio Lower Upper
43 100
72 23.4 20.6 31.0



#31
Cyclohexane
Concen: 1.467 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064952.D
Acq: 24 Jan 2020 19:33

Tgt Ion: 56 Resp: 10523
Ion Ratio Lower Upper
56 100
69 151.8 27.9 41.9#
84 95.3 72.8 109.2

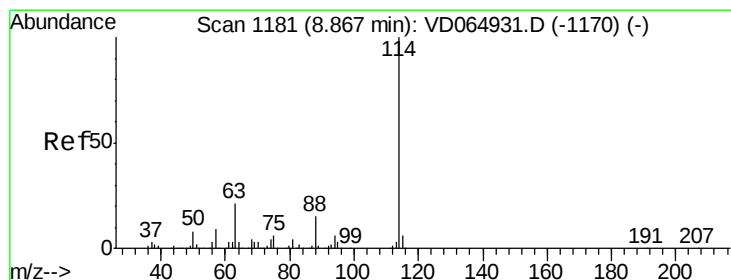
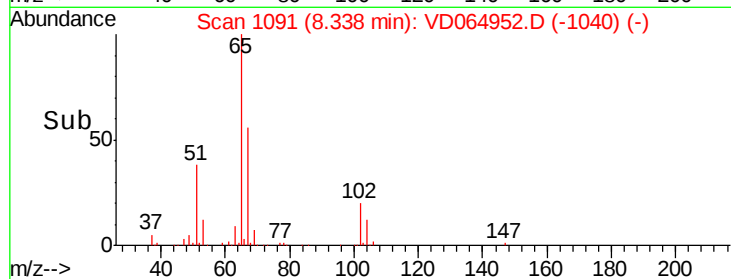
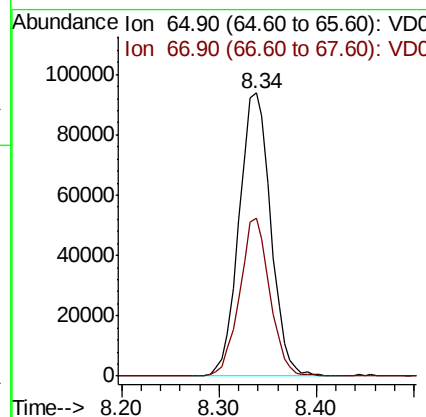
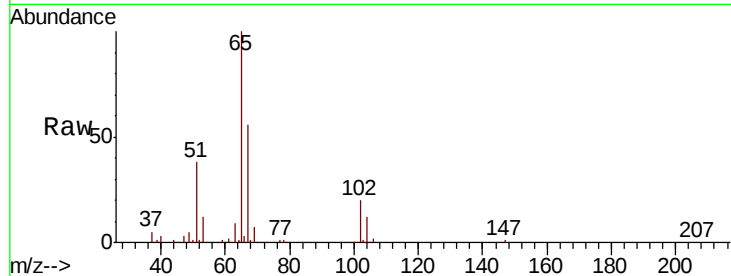




#33
 1,2-Dichloroethane-d4
 Concen: 51.461 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. -0.00 min
 Lab File: VD064952.D
 Acq: 24 Jan 2020 19:33

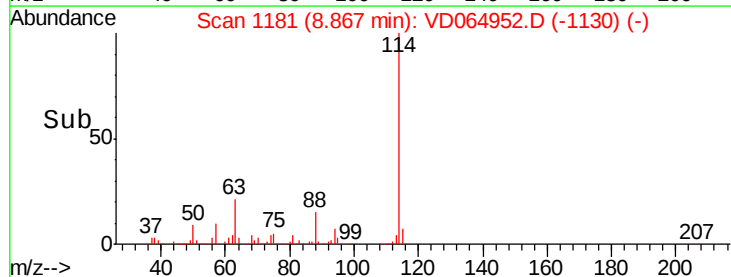
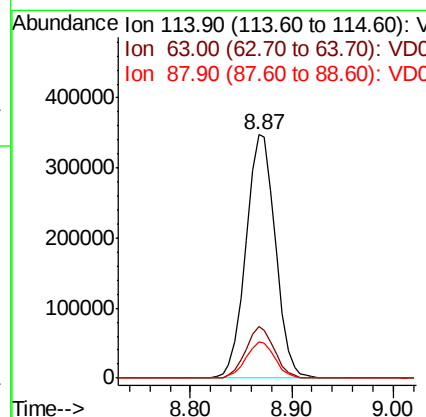
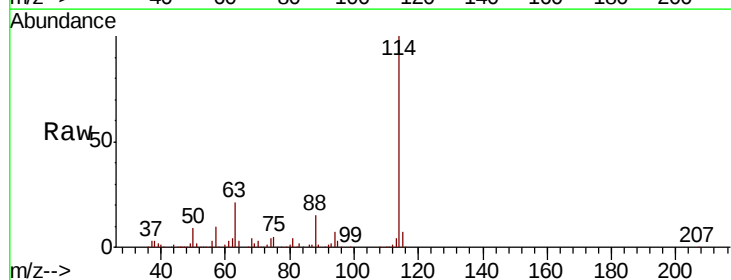
Instrument :
 MSVOA_D
 ClientSampled :

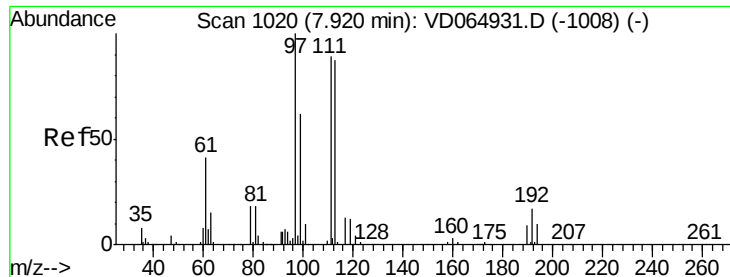
Tot Ion: 65 Resp: 211831
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064952.D
 Acq: 24 Jan 2020 19:33

Tgt Ion: 114 Resp: 700638
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 42.0
 88 14.9 0.0 29.4

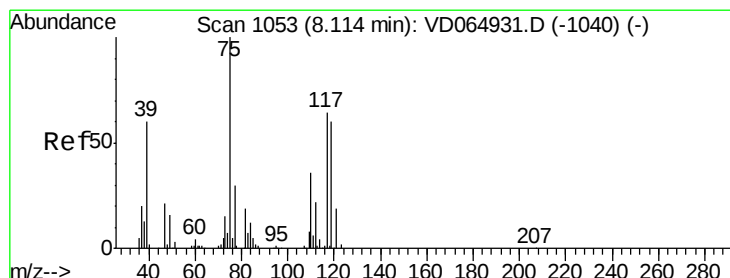
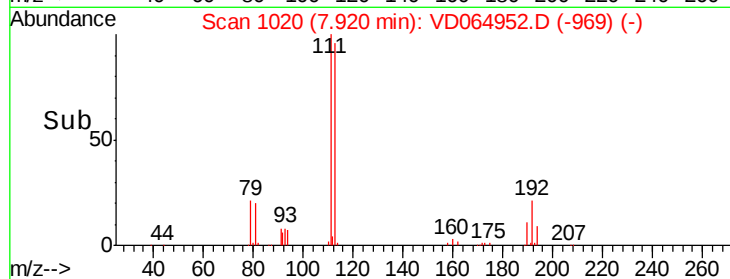
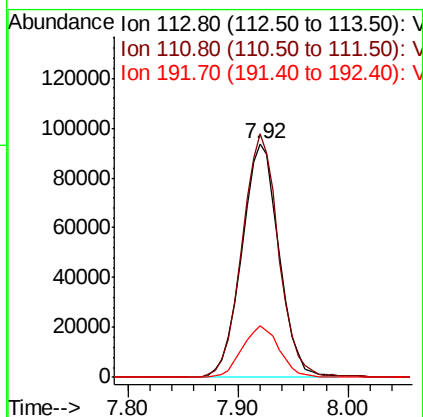
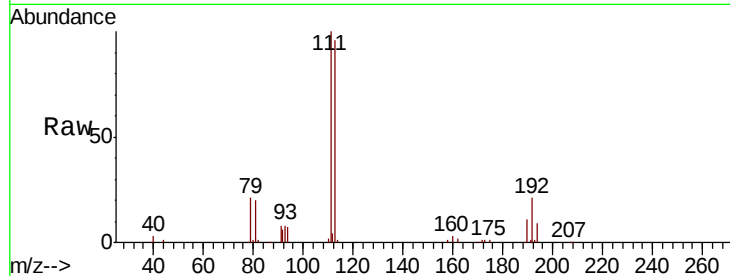




#35
 Dibromofluoromethane
 Concen: 50.208 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064952.D
 Acq: 24 Jan 2020 19:33

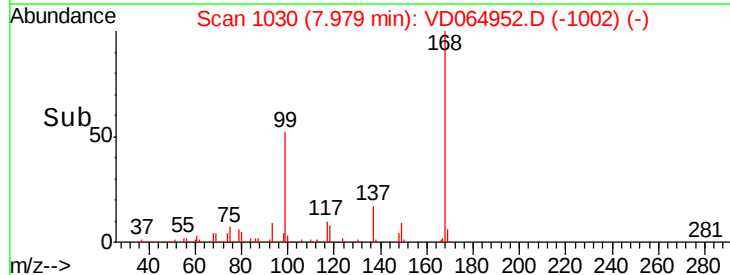
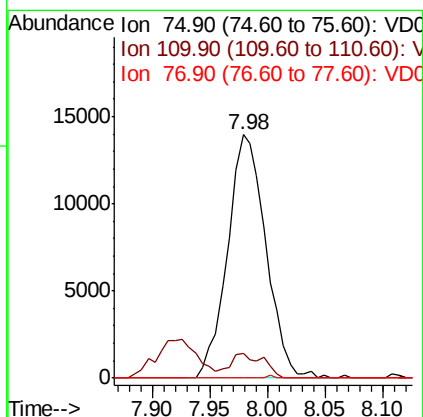
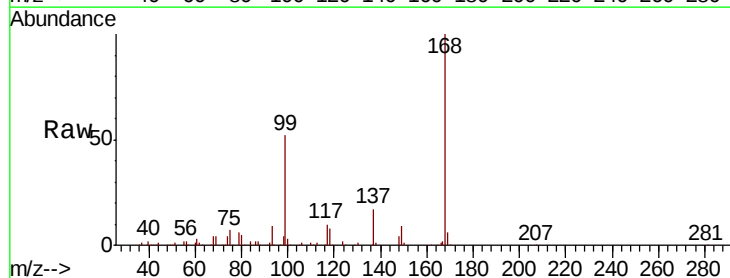
Instrument :
 MSVOA_D
 ClientSampleId :

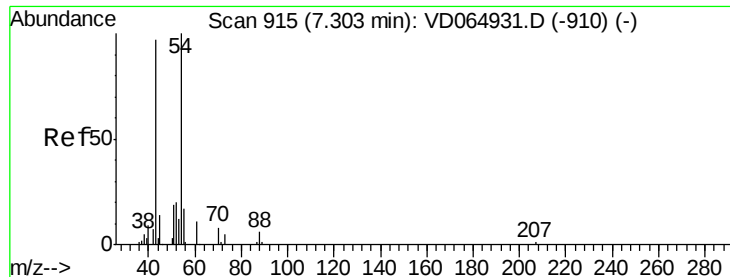
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.4	123.6
192	21.9	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 4.743 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064952.D
 Acq: 24 Jan 2020 19:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.3	52.0#
77	0.0	24.7	37.1#





#37

Ethyl Acetate

Concen: 9.385 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.08 min

Lab File: VD064952.D

Acq: 24 Jan 2020 19:33

Instrument :

MSVOA_D

ClientSampleId :

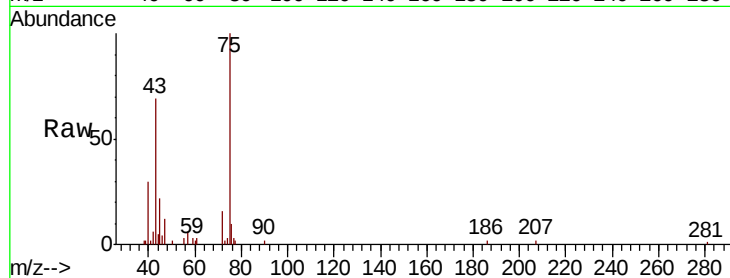
Tot Ion: 43 Resp: 26190

Ion Ratio Lower Upper

43 100

61 3.7 11.0 16.4#

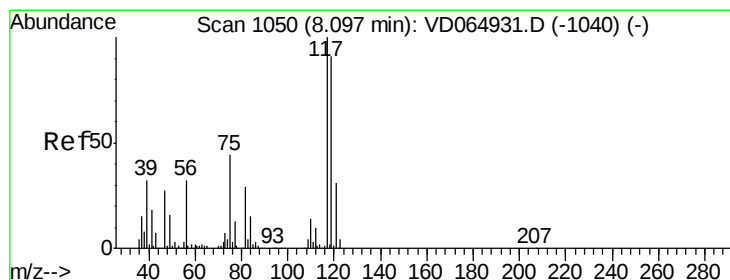
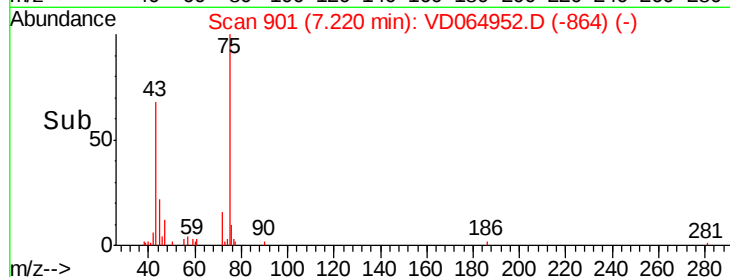
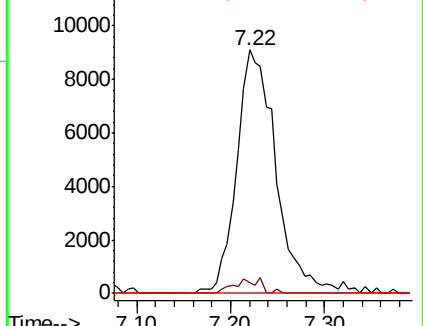
70 0.0 7.5 11.3#



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: 5.707 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064952.D

Acq: 24 Jan 2020 19:33

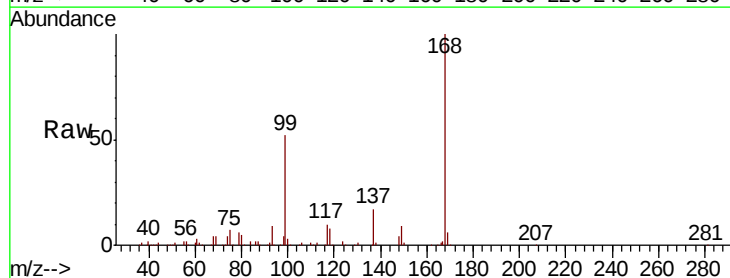
Tgt Ion: 117 Resp: 40754

Ion Ratio Lower Upper

117 100

119 4.4 73.2 109.8#

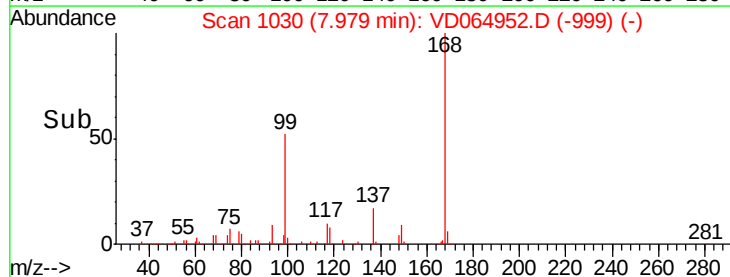
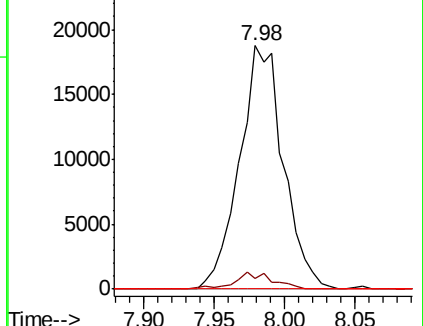
121 0.0 24.4 36.6#

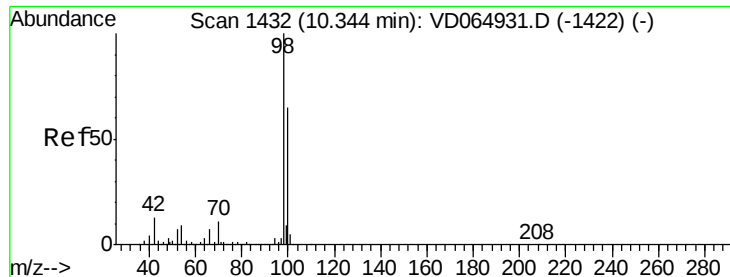


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.103 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064952.D

Acq: 24 Jan 2020 19:33

Instrument :

MSVOA_D

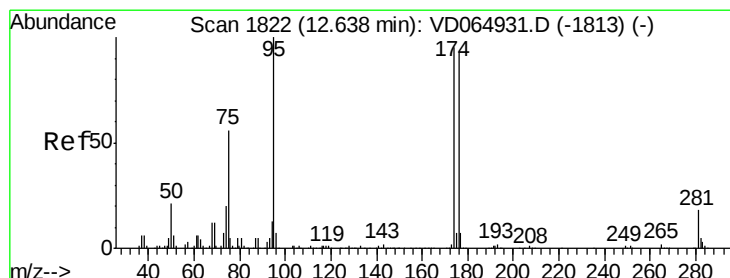
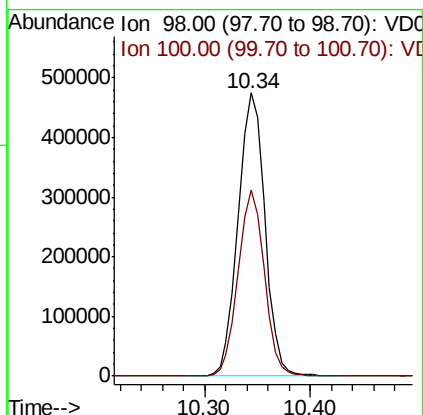
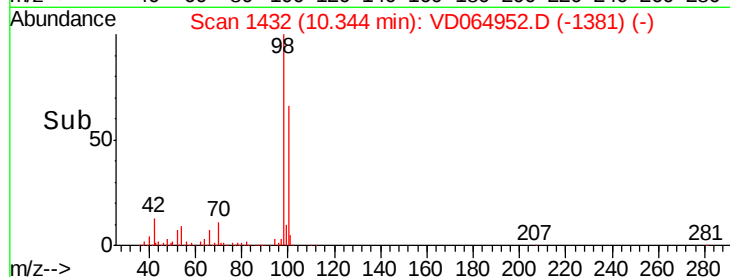
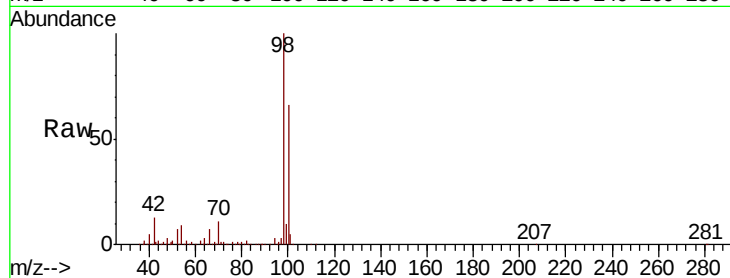
ClientSampled :

Tot Ion: 98 Resp: 834428

Ion Ratio Lower Upper

98 100

100 64.6 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 48.852 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064952.D

Acq: 24 Jan 2020 19:33

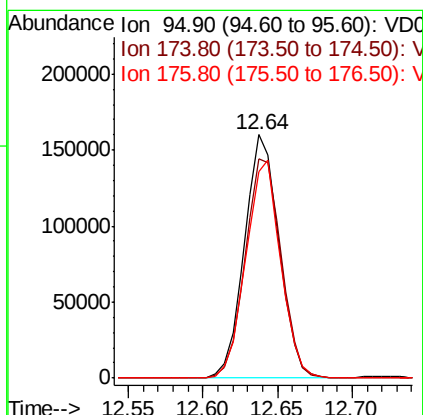
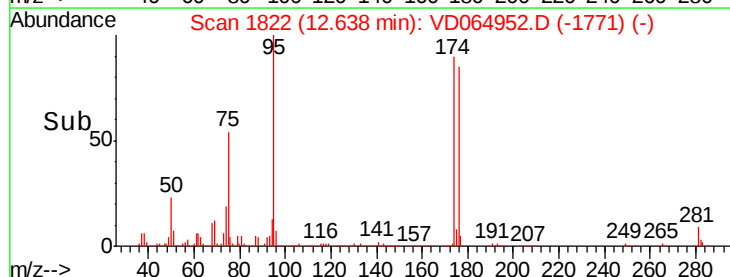
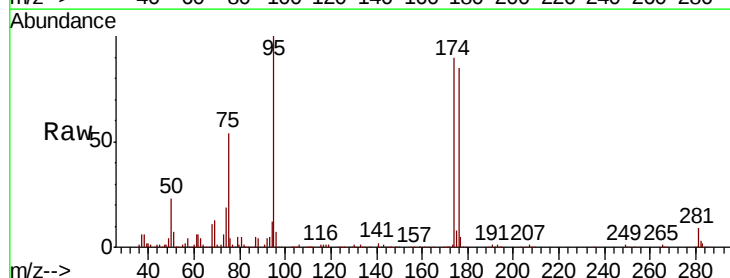
Tgt Ion: 95 Resp: 254048

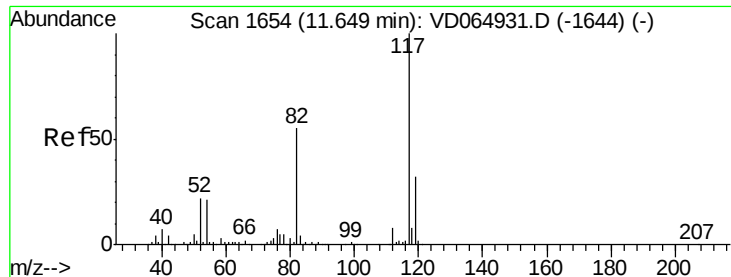
Ion Ratio Lower Upper

95 100

174 94.3 0.0 186.8

176 90.4 0.0 183.4

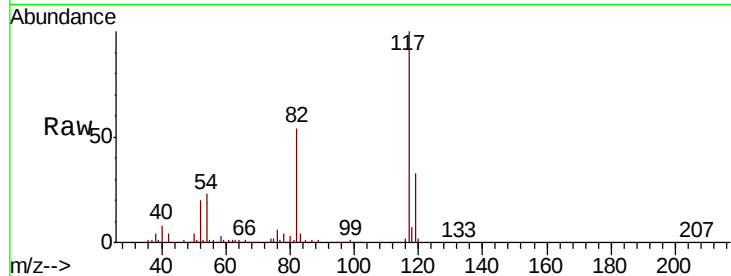




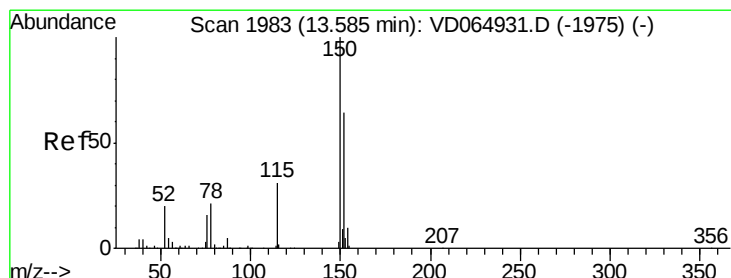
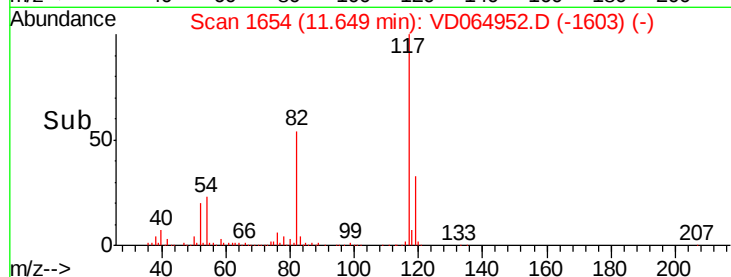
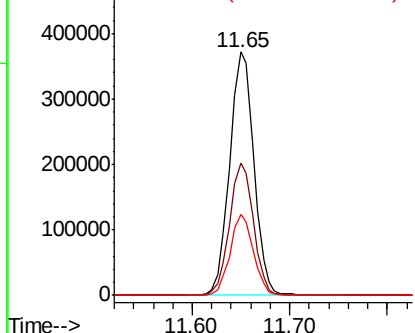
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064952.D
Acq: 24 Jan 2020 19:33

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.6	65.4
119	33.3	25.2	37.8

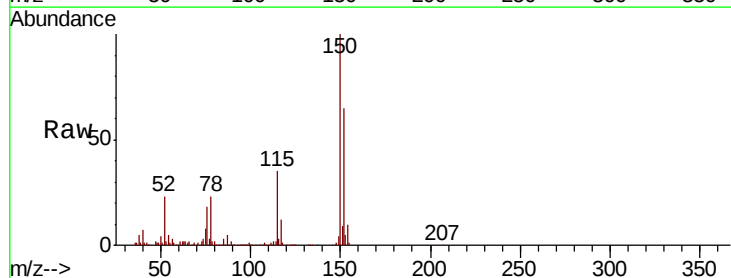


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

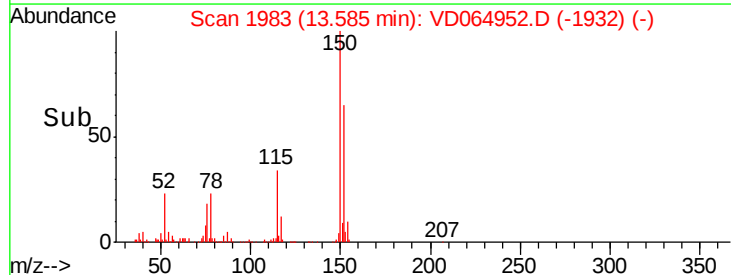
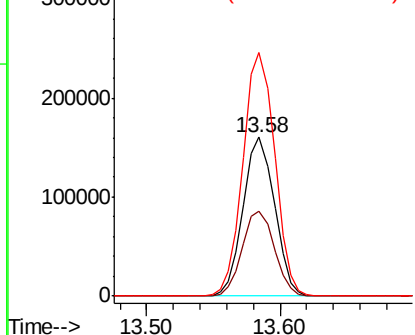


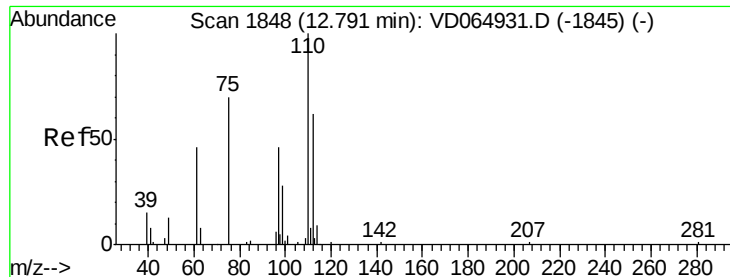
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD064952.D
Acq: 24 Jan 2020 19:33

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	28.1	84.4
150	154.4	0.0	350.4



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: 65.068 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064952.D

Acq: 24 Jan 2020 19:33

Instrument :

MSVOA_D

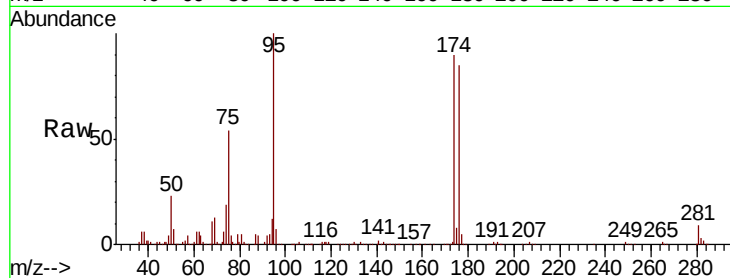
ClientSampleId :

Tot Ion: 75 Resp: 141693

Ion Ratio Lower Upper

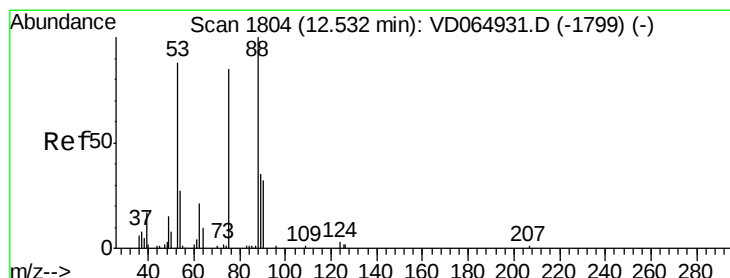
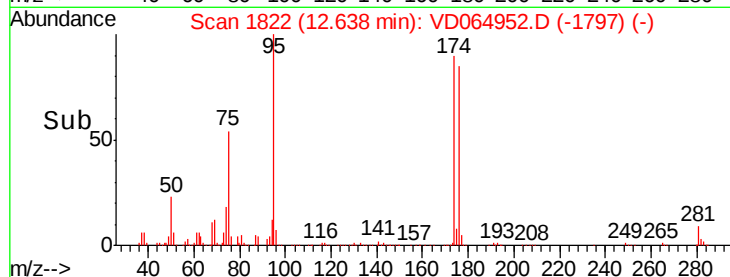
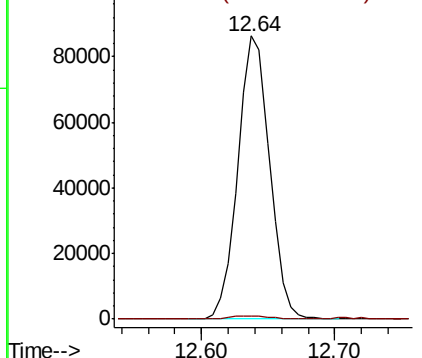
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 138.936 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064952.D

Acq: 24 Jan 2020 19:33

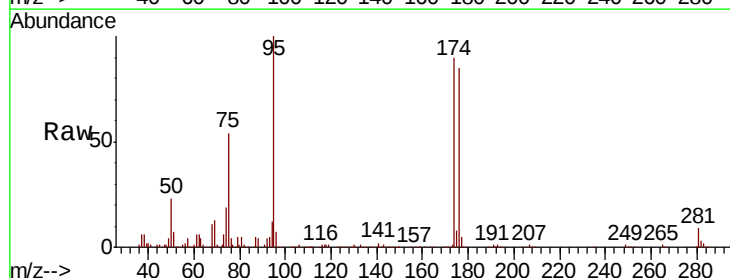
Tgt Ion: 75 Resp: 141693

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

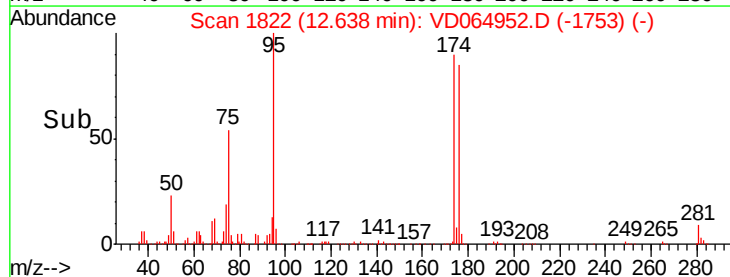
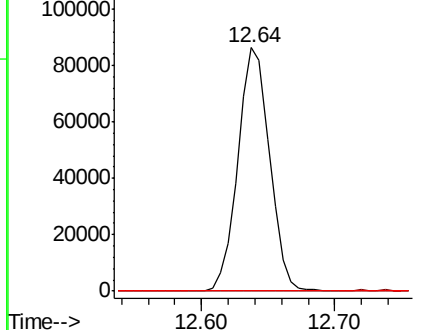
89 0.1 36.2 54.4#

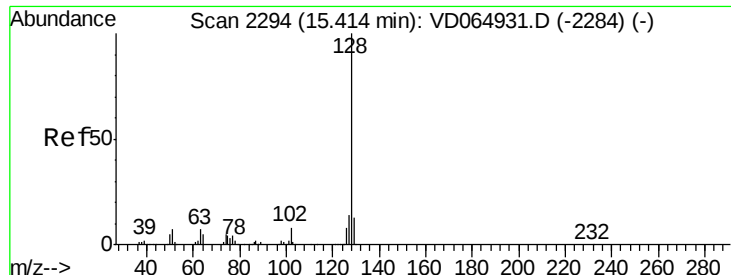


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

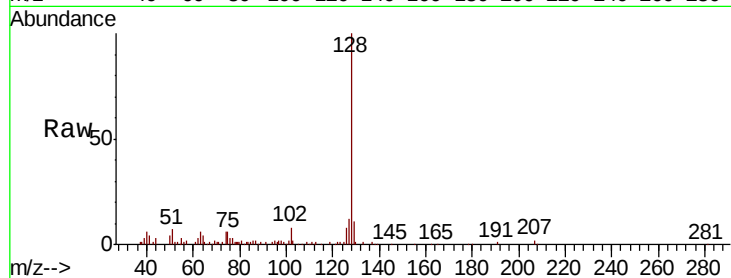




#95
Naphthalene
Concen: 13.432 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VD064952.D
Acq: 24 Jan 2020 19:33

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.6	15.8
129	11.2	9.3	13.9



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

