

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012420\
 Data File : VD064948.D
 Acq On : 24 Jan 2020 17:38
 Operator : VA/SY
 Sample : L1242-04
 Misc : 4.99G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 25 02:40:01 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	442516	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	720981	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	647326	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	261040	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	208684	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
35) Dibromofluoromethane	7.92	113	224725	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	10.34	98	851569	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
62) 4-Bromofluorobenzene	12.64	95	255453	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	

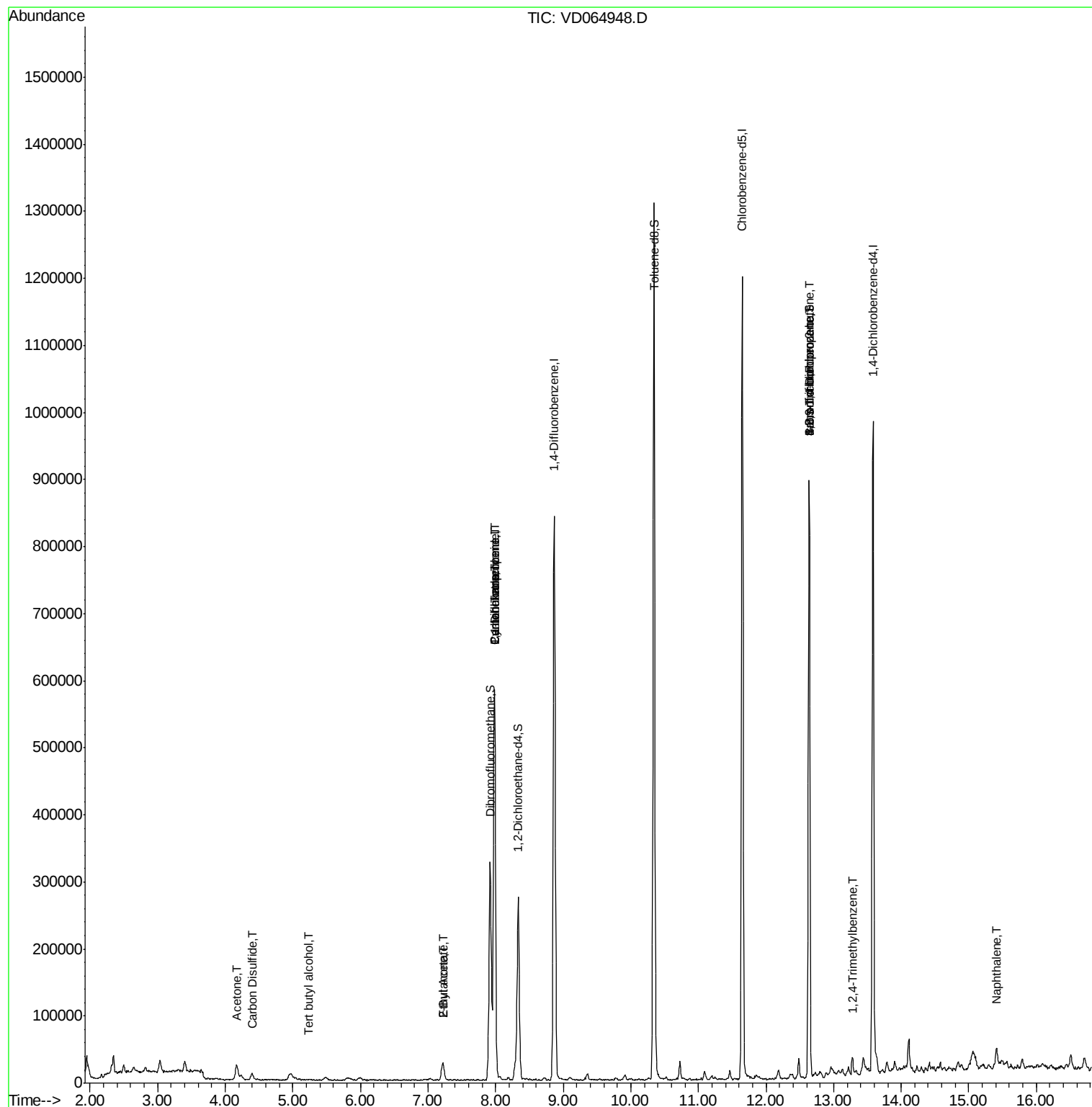
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.24	59	623	2.656	ug/l #	74
16) Acetone	4.17	43	41483	47.529	ug/l	96
17) Carbon Disulfide	4.40	76	17451	1.377	ug/l #	92
20) Methylene Chloride	4.97	84	6403	Below Cal	#	76
25) 2-Butanone	7.23	43	14571	12.706	ug/l	92
31) Cyclohexane	7.98	56	11516	1.557	ug/l #	36
36) 1,1-Dichloropropene	7.98	75	34215	4.921	ug/l #	51
37) Ethyl Acetate	7.23	43	14571	5.074	ug/l #	81
38) Carbon Tetrachloride	7.98	117	42486	5.782	ug/l #	19
71) Bromoform	12.64	173	3485	1.268	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	141926	65.505	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	141926	139.868	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.27	105	16095	1.087	ug/l	94
95) Naphthalene	15.41	128	26741	3.368	ug/l	96

(#) = 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: VD064948.D

Acq: 24 Jan 2020 17:38

Instrument :

MSVOA_D

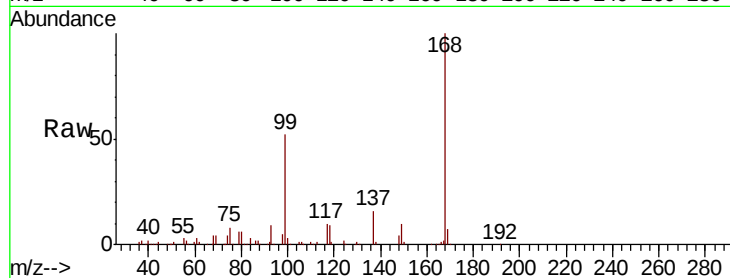
ClientSampleId :

Tot Ion:168 Resp: 442516

Ion Ratio Lower Upper

168 100

99 52.3 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

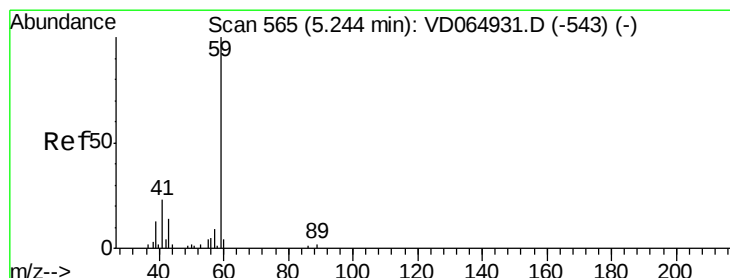
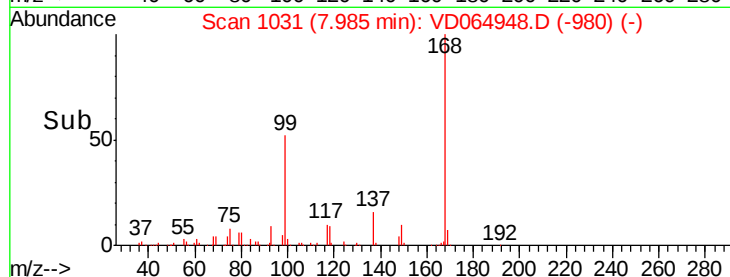
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.656 ug/l

RT: 5.24 min Scan# 564

Delta R.T. -0.01 min

Lab File: VD064948.D

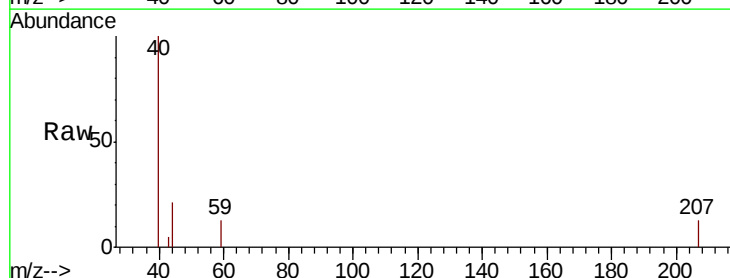
Acq: 24 Jan 2020 17:38

Tgt Ion: 59 Resp: 623

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

5.24

500

400

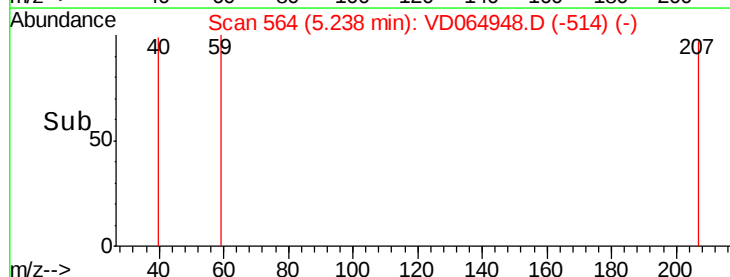
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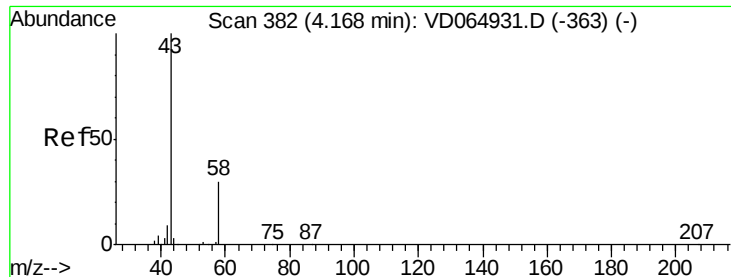
200

100

0

Time-->





#16

Acetone

Concen: 47.529 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064948.D

Acq: 24 Jan 2020 17:38

Instrument :

MSVOA_D

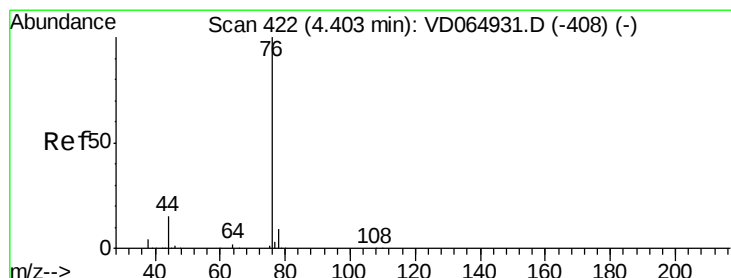
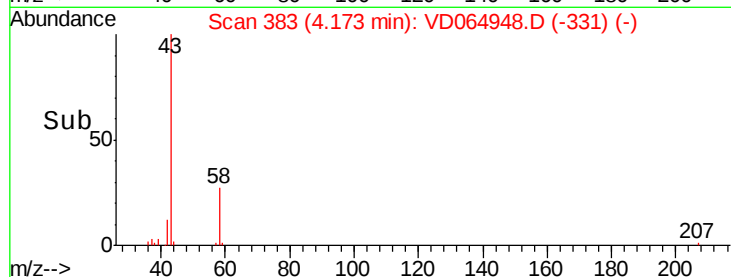
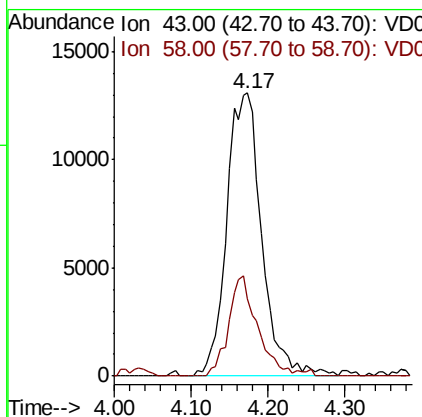
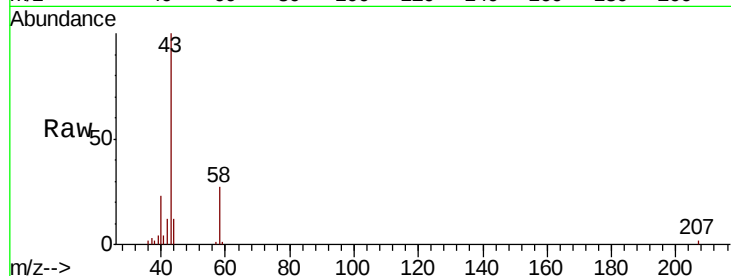
ClientSampleId :

Tot Ion: 43 Resp: 41483

Ion Ratio Lower Upper

43 100

58 27.4 23.8 35.8



#17

Carbon Disulfide

Concen: 1.377 ug/l

RT: 4.40 min Scan# 421

Delta R.T. -0.01 min

Lab File: VD064948.D

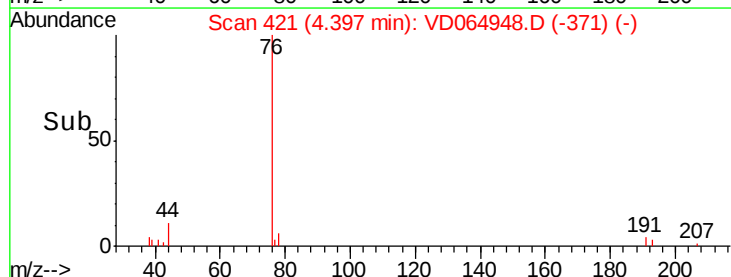
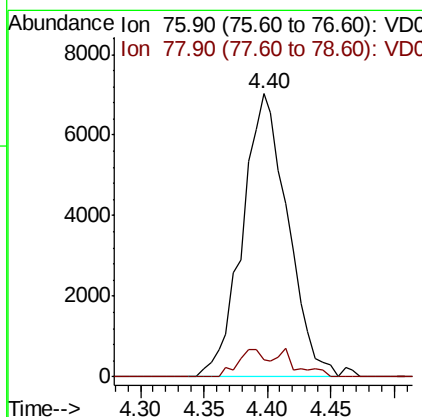
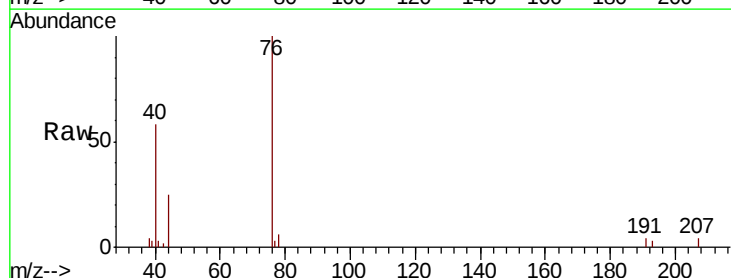
Acq: 24 Jan 2020 17:38

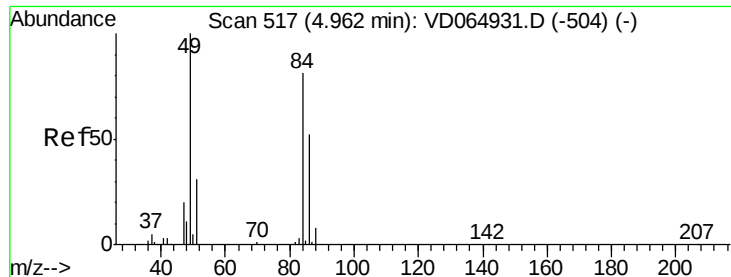
Tgt Ion: 76 Resp: 17451

Ion Ratio Lower Upper

76 100

78 5.9 7.1 10.7#

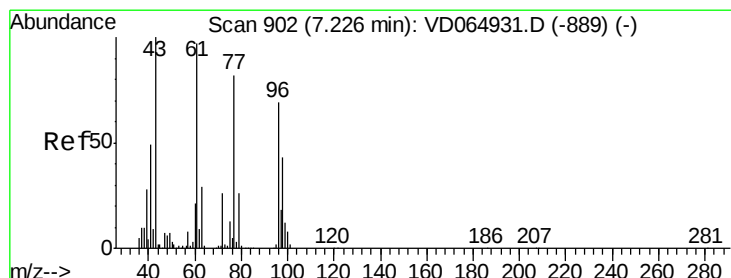
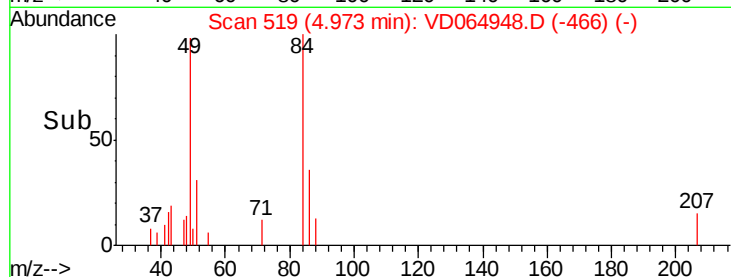
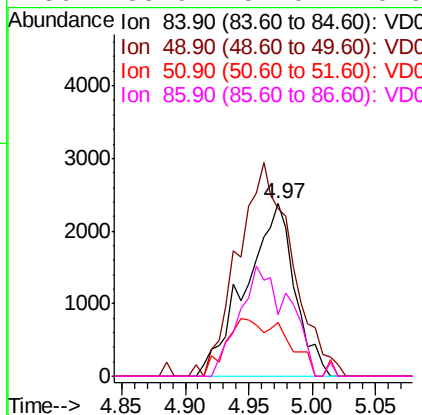
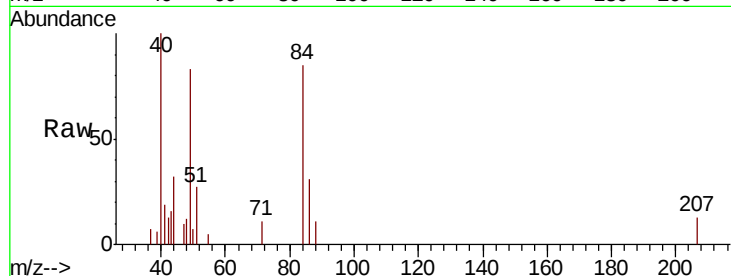




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD064948.D
Acq: 24 Jan 2020 17:38

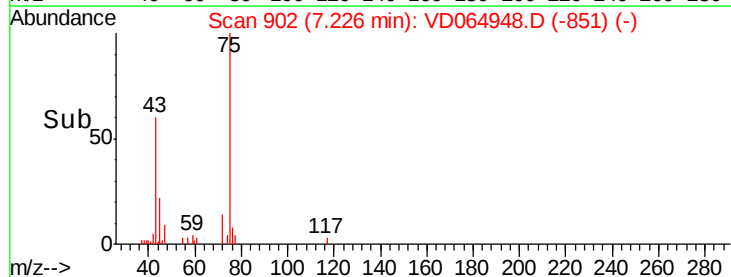
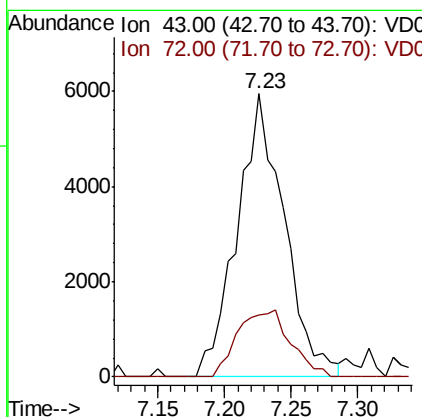
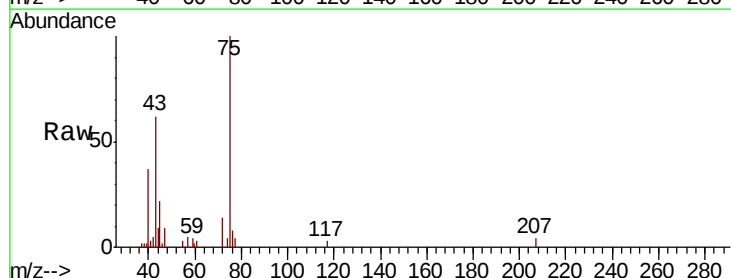
Instrument :
MSVOA_D
ClientSampleId :

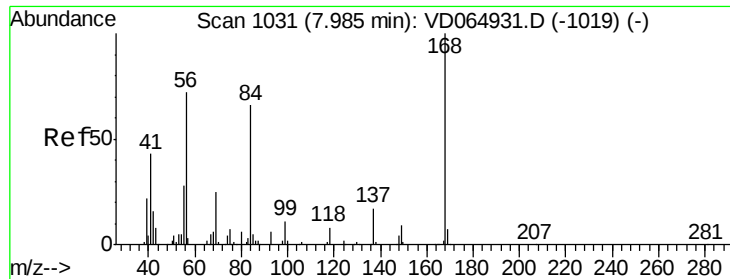
Tot Ion: 84 Resp: 6403
Ion Ratio Lower Upper
84 100
49 97.7 98.4 147.6#
51 31.5 30.8 46.2
86 35.9 51.0 76.6#



#25
2-Butanone
Concen: 12.706 ug/l
RT: 7.23 min Scan# 902
Delta R.T. 0.00 min
Lab File: VD064948.D
Acq: 24 Jan 2020 17:38

Tgt Ion: 43 Resp: 14571
Ion Ratio Lower Upper
43 100
72 21.9 20.6 31.0

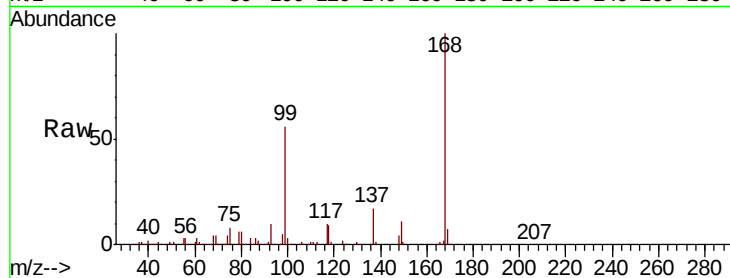




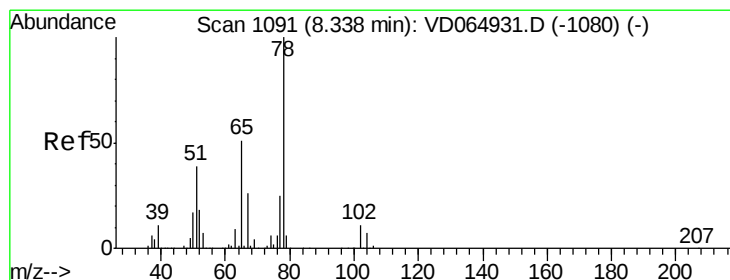
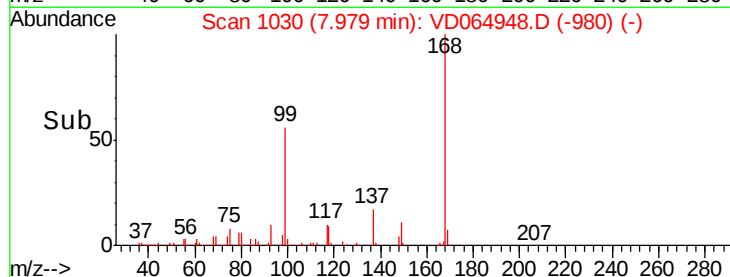
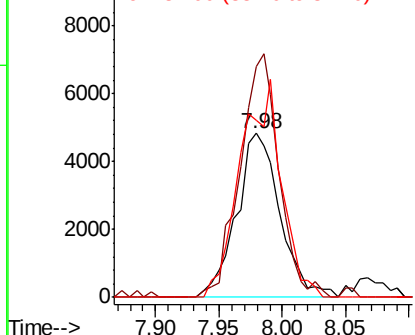
#31
Cvclohexane
Concen: 1.557 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064948.D
Acq: 24 Jan 2020 17:38

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 11516
Ion Ratio Lower Upper
56 100
69 141.0 27.9 41.9#
84 107.9 72.8 109.2

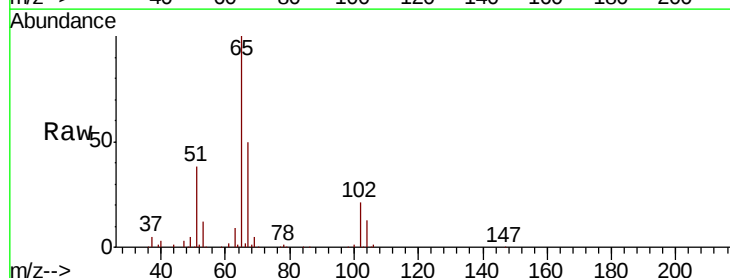


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

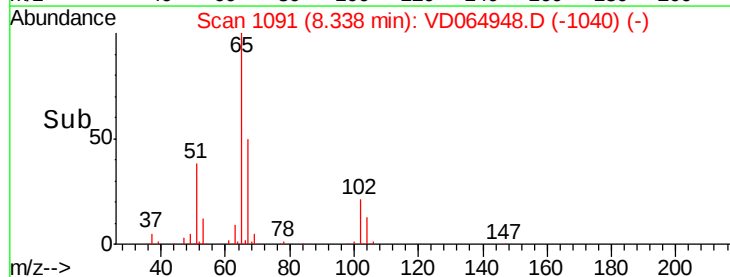
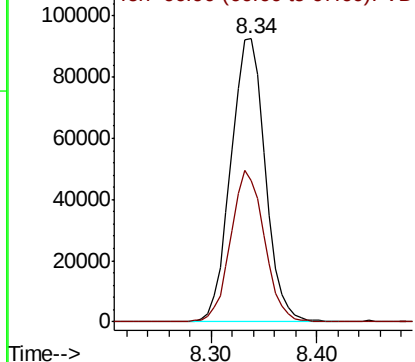


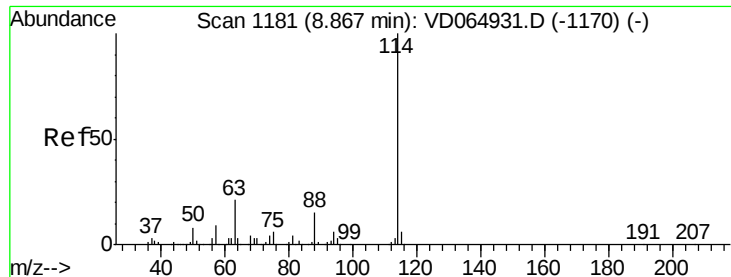
#33
1,2-Dichloroethane-d4
Concen: 49.164 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD064948.D
Acq: 24 Jan 2020 17:38

Tgt Ion: 65 Resp: 208684
Ion Ratio Lower Upper
65 100
67 52.5 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

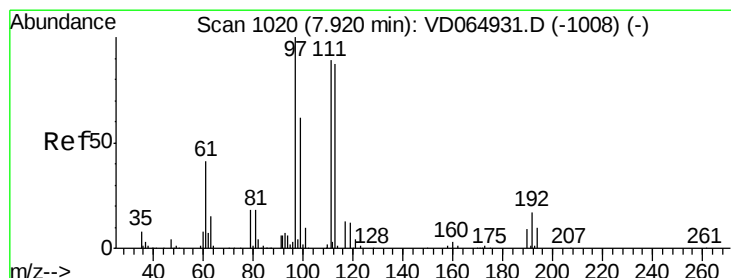
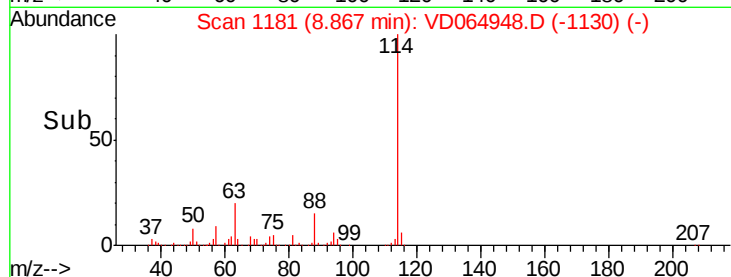
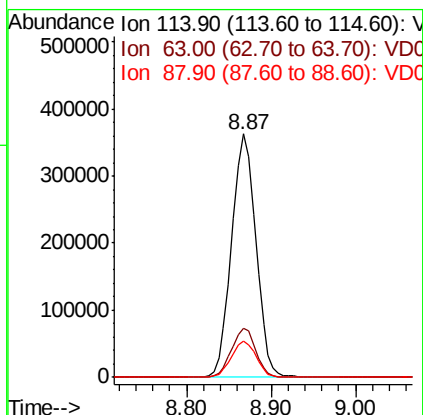
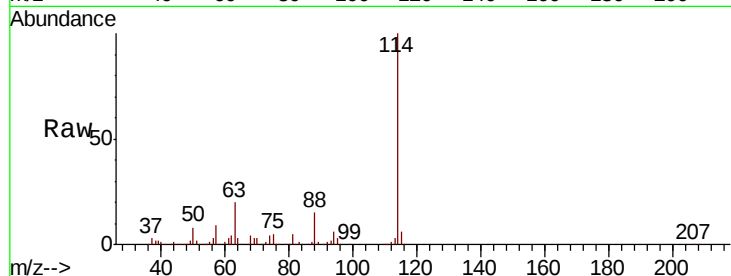




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064948.D
 Acq: 24 Jan 2020 17:38

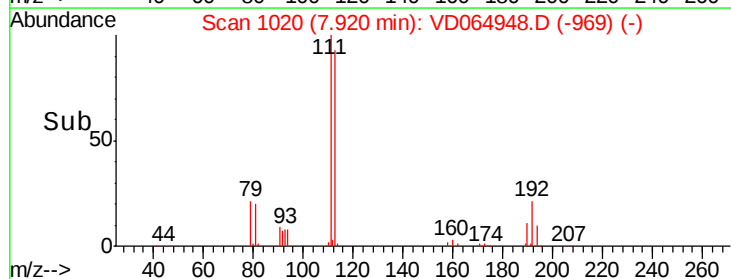
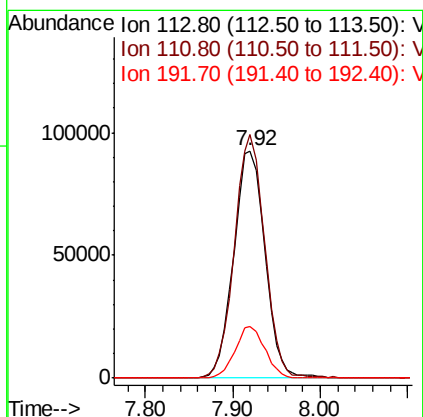
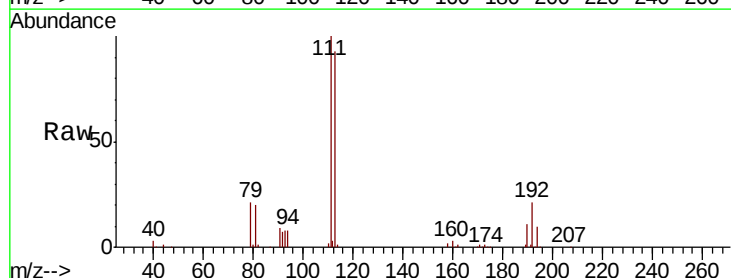
Instrument :
 MSVOA_D
 ClientSampleId :

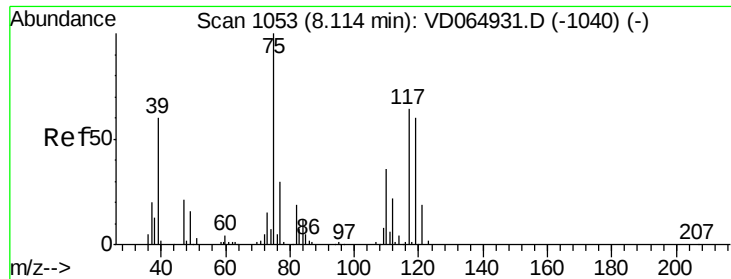
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.0
88	14.9	0.0	29.4



#35
 Dibromofluoromethane
 Concen: 49.600 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064948.D
 Acq: 24 Jan 2020 17:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.4	123.6
192	21.6	16.9	25.3

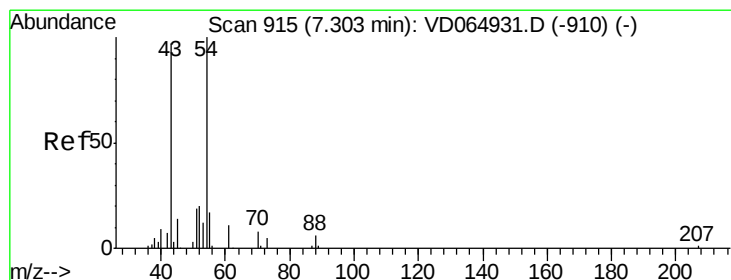
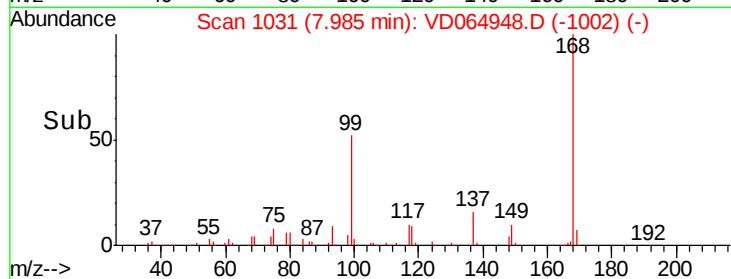
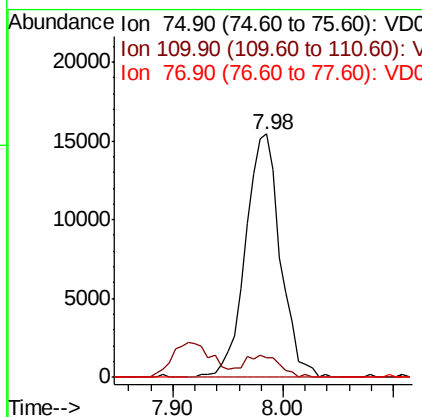
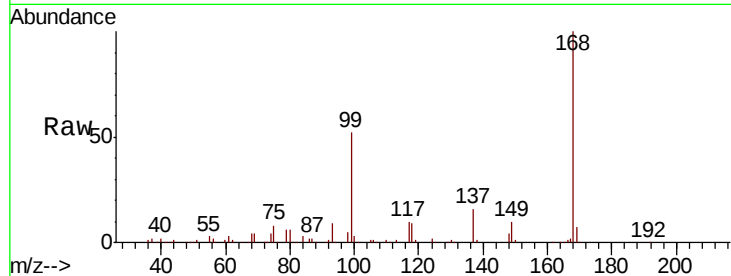




#36
 1,1-Dichloropropene
 Concen: 4.921 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064948.D
 Acq: 24 Jan 2020 17:38

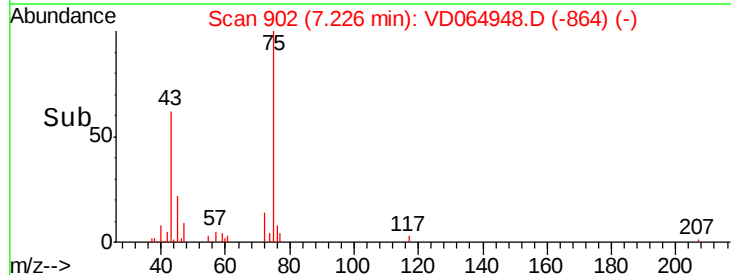
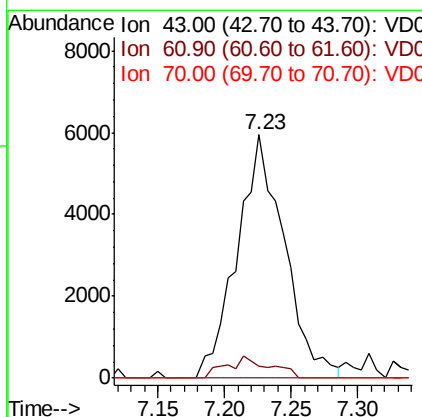
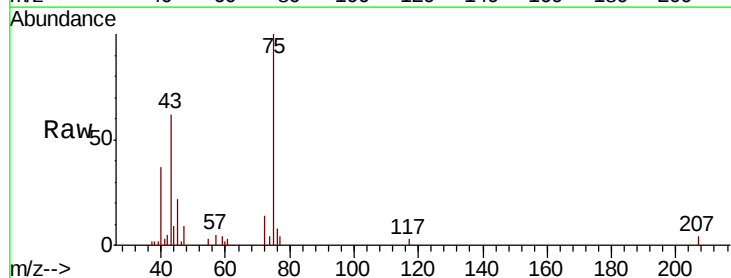
Instrument :
 MSVOA_D
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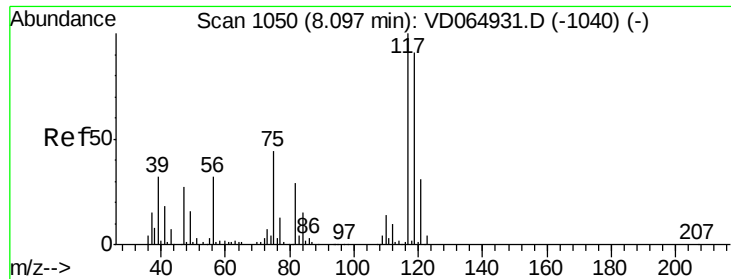
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	17.3	52.0#
77	0.0	24.7	37.1#



#37
 Ethyl Acetate
 Concen: 5.074 ug/l
 RT: 7.23 min Scan# 902
 Delta R.T. -0.08 min
 Lab File: VD064948.D
 Acq: 24 Jan 2020 17:38

Tgt Ion	Ratio	Lower	Upper
43	100		
61	8.2	11.0	16.4#
70	0.0	7.5	11.3#

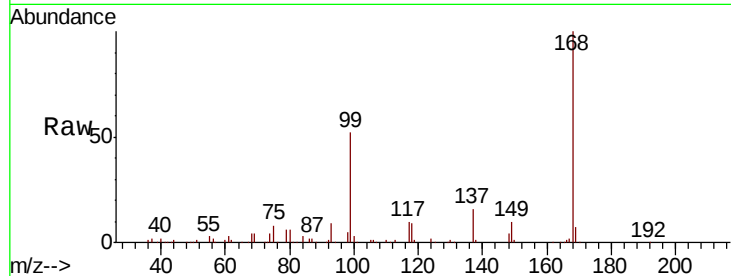




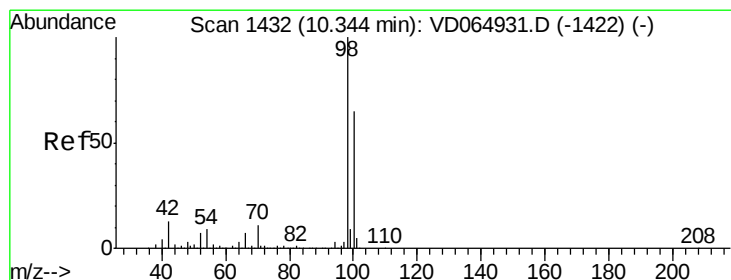
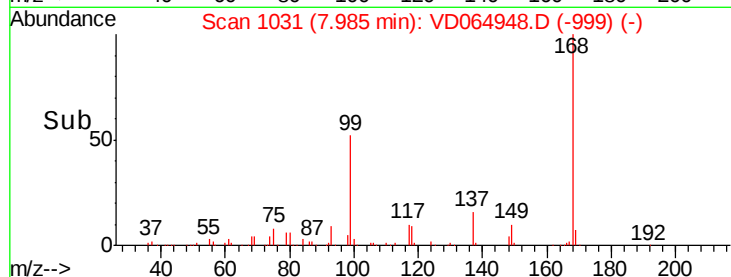
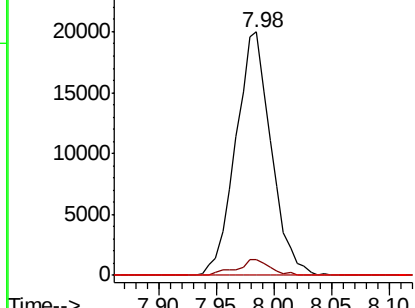
#38
Carbon Tetrachloride
Concen: 5.782 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064948.D
Acq: 24 Jan 2020 17:38

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 42486
Ion Ratio Lower Upper
117 100
119 6.5 73.2 109.8#
121 0.0 24.4 36.6#

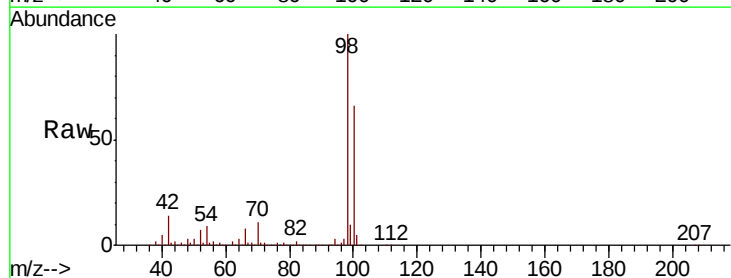


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

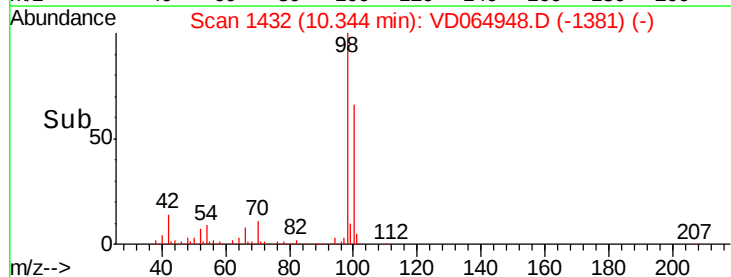
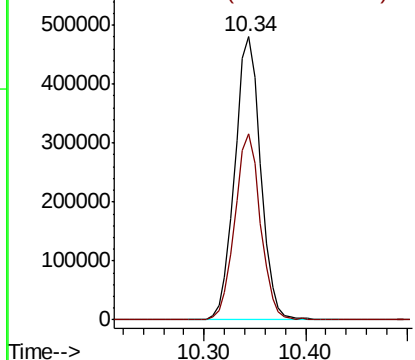


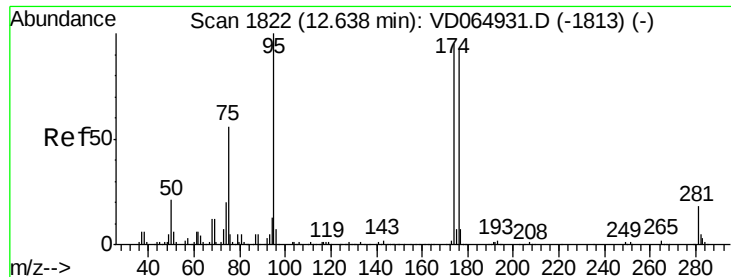
#50
Toluene-d8
Concen: 48.697 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064948.D
Acq: 24 Jan 2020 17:38

Tgt Ion: 98 Resp: 851569
Ion Ratio Lower Upper
98 100
100 65.3 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VD





#62

4-Bromofluorobenzene

Concen: 47.736 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064948.D

Acq: 24 Jan 2020 17:38

Instrument :

MSVOA_D

ClientSampleId :

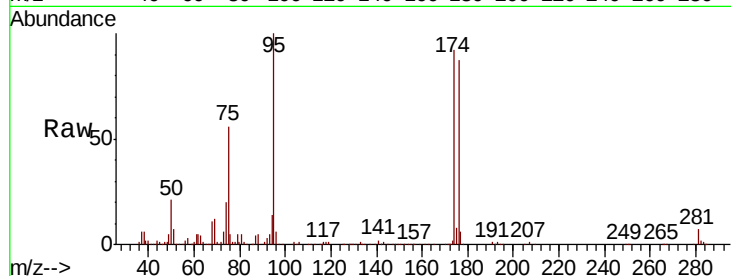
Tot Ion: 95 Resp: 255453

Ion Ratio Lower Upper

95 100

174 94.0 0.0 186.8

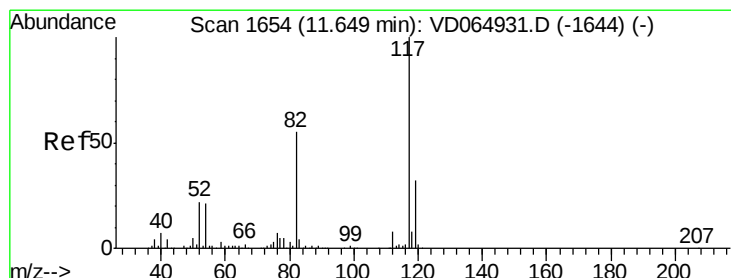
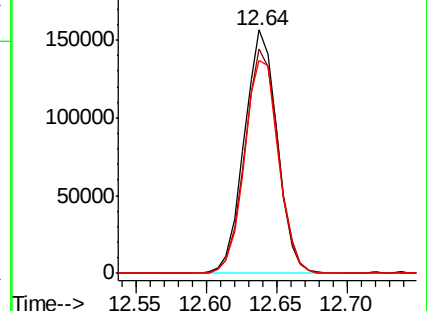
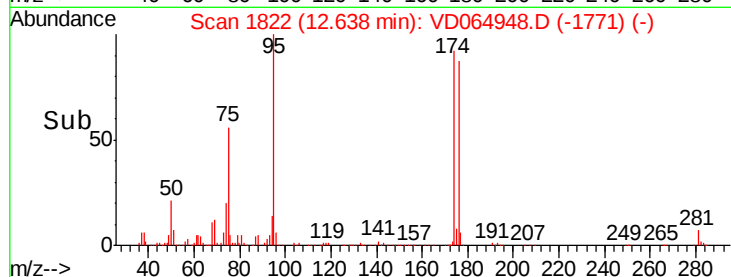
176 90.5 0.0 183.4



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: VD064948.D

Acq: 24 Jan 2020 17:38

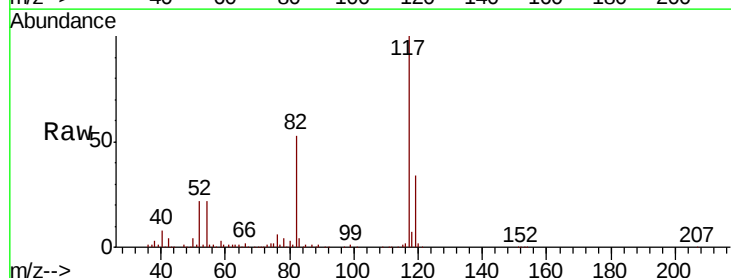
Tgt Ion: 117 Resp: 647326

Ion Ratio Lower Upper

117 100

82 52.7 43.6 65.4

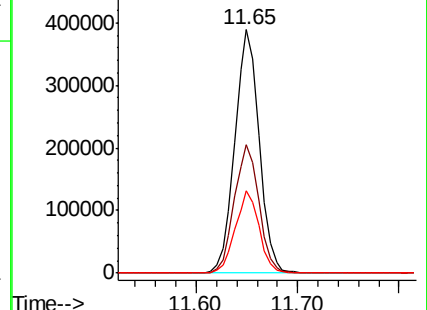
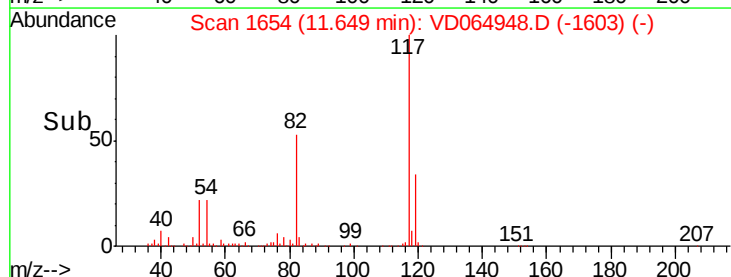
119 33.7 25.2 37.8

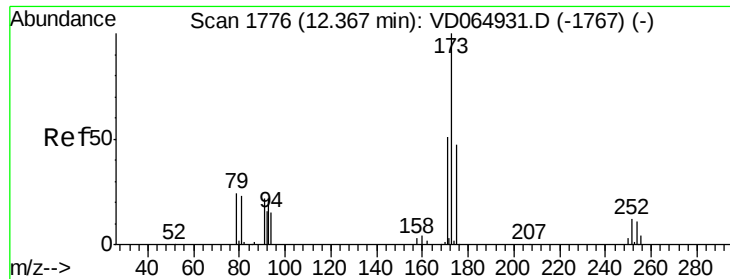


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 1.268 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD064948.D

Acq: 24 Jan 2020 17:38

Instrument :

MSVOA_D

ClientSampleId :

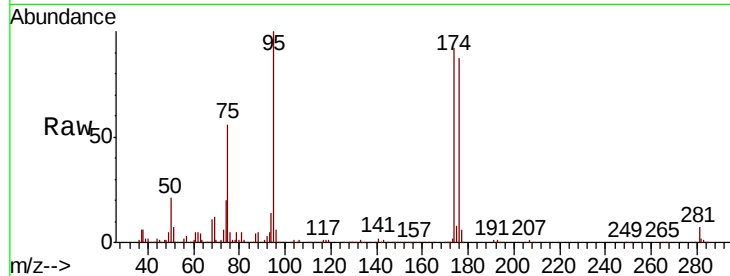
Tot Ion:173 Resp: 3485

Ion Ratio Lower Upper

173 100

175 414.8 24.6 73.8#

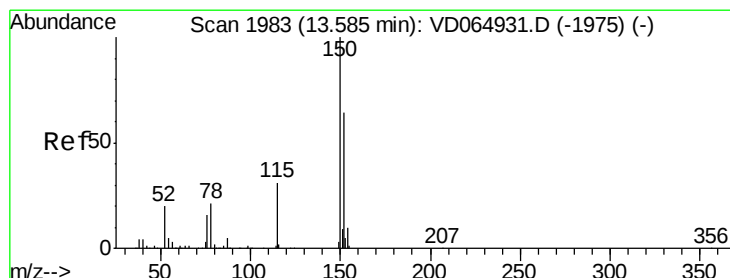
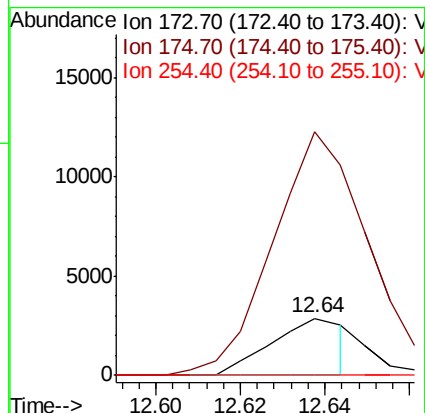
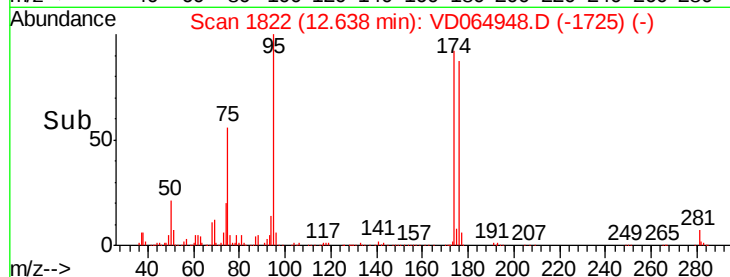
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VD064948.D

Acq: 24 Jan 2020 17:38

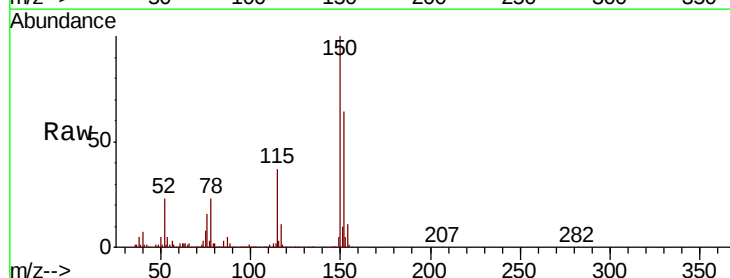
Tgt Ion:152 Resp: 261040

Ion Ratio Lower Upper

152 100

115 55.8 28.1 84.4

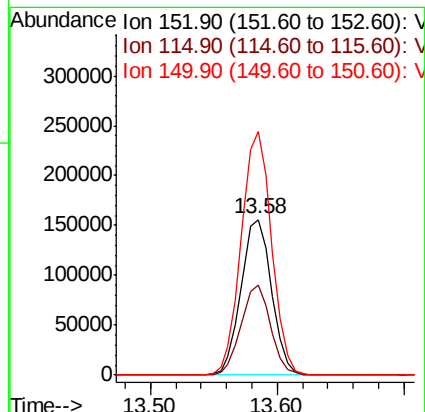
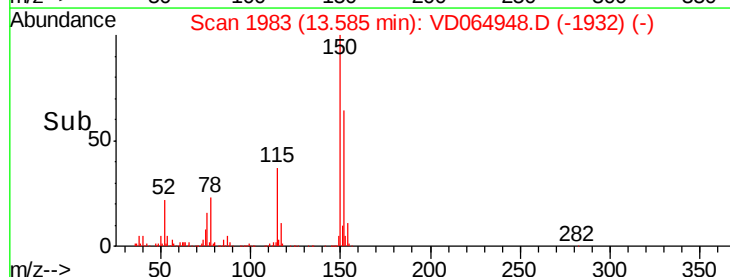
150 154.8 0.0 350.4

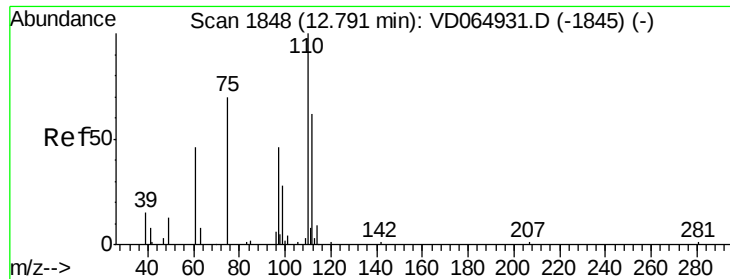


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 65.505 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064948.D

Acq: 24 Jan 2020 17:38

Instrument :

MSVOA_D

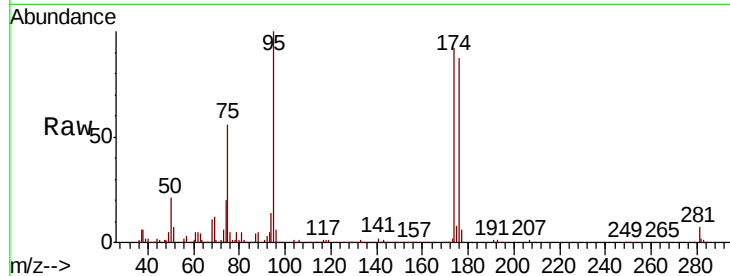
ClientSampleId :

Tot Ion: 75 Resp: 141926

Ion Ratio Lower Upper

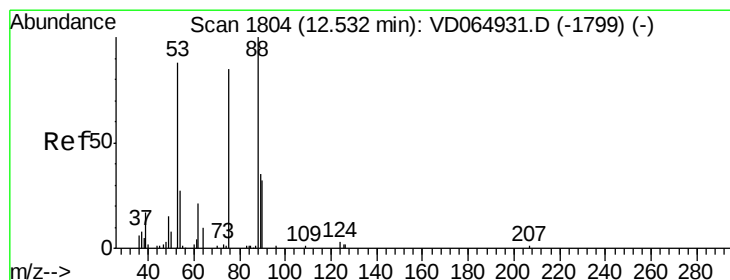
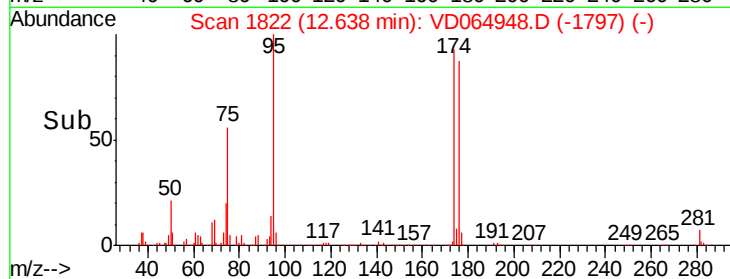
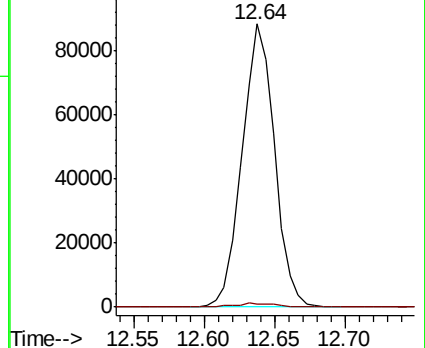
75 100

77 1.8 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: 139.868 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064948.D

Acq: 24 Jan 2020 17:38

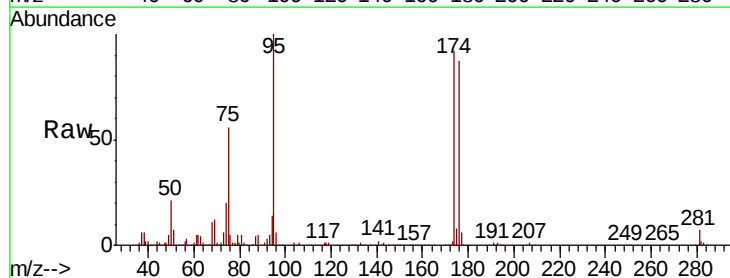
Tgt Ion: 75 Resp: 141926

Ion Ratio Lower Upper

75 100

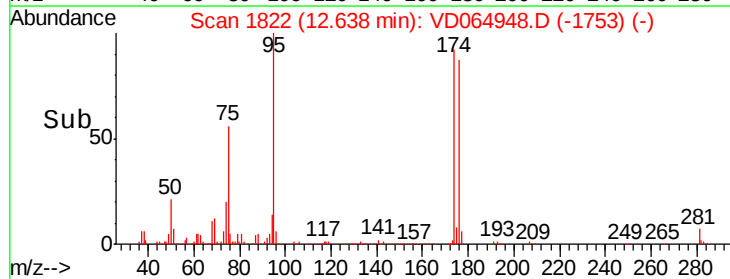
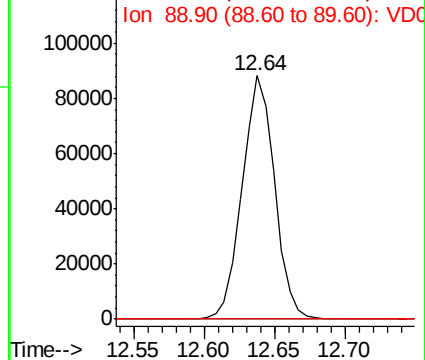
53 0.2 81.0 121.4#

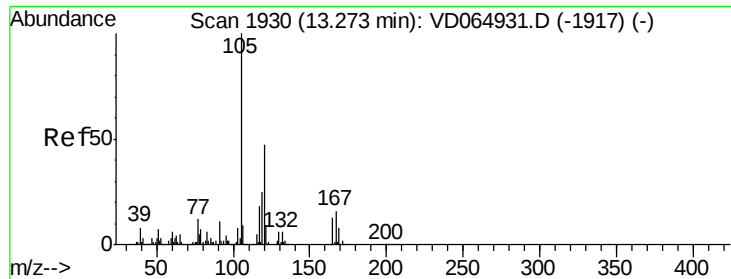
89 0.0 36.2 54.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

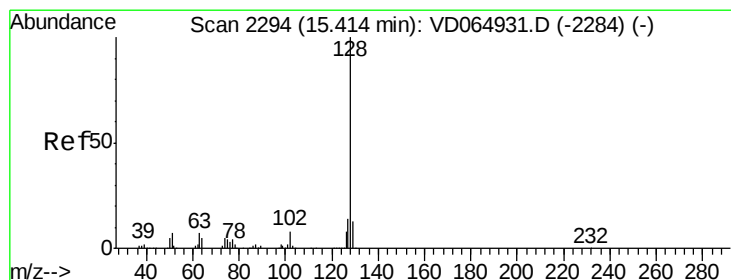
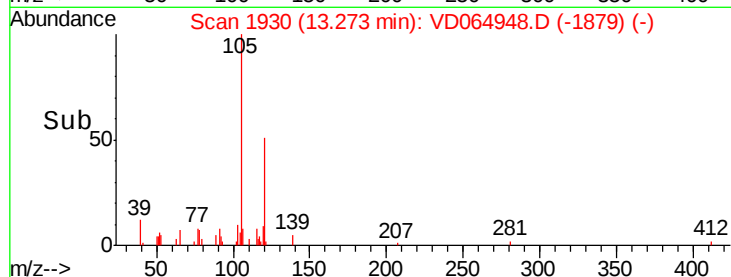
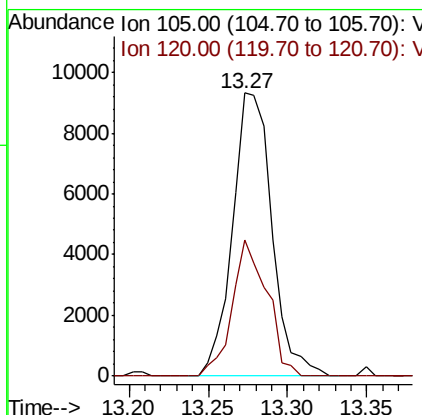
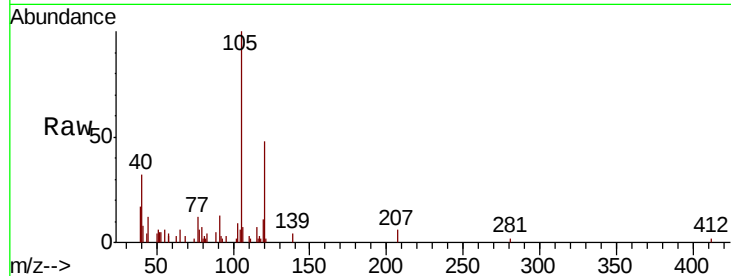




#84
 1,2,4-Trimethylbenzene
 Concen: 1.087 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD064948.D
 Acq: 24 Jan 2020 17:38

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:105 Resp: 16095
 Ion Ratio Lower Upper
 105 100
 120 42.4 23.1 69.3



#95
 Naphthalene
 Concen: 3.368 ug/l
 RT: 15.41 min Scan# 2294
 Delta R.T. 0.00 min
 Lab File: VD064948.D
 Acq: 24 Jan 2020 17:38

Tgt Ion:128 Resp: 26741
 Ion Ratio Lower Upper
 128 100
 127 15.2 10.6 15.8
 129 10.7 9.3 13.9

