

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102319\
 Data File : VD064026.D
 Acq On : 23 Oct 2019 17:43
 Operator : VA/SY
 Sample : K5497-12
 Misc : 6.61G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 24 05:59:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	69072	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	132565	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	145568	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	71027	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	51382	76.41	ug/l	0.00
Spiked Amount			Recovery	=	152.82%	
35) Dibromofluoromethane	7.93	113	47007	58.02	ug/l	0.01
Spiked Amount			Recovery	=	116.04%	
50) Toluene-d8	10.34	98	181523	55.20	ug/l	0.00
Spiked Amount			Recovery	=	110.40%	
62) 4-Bromofluorobenzene	12.64	95	57564	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	

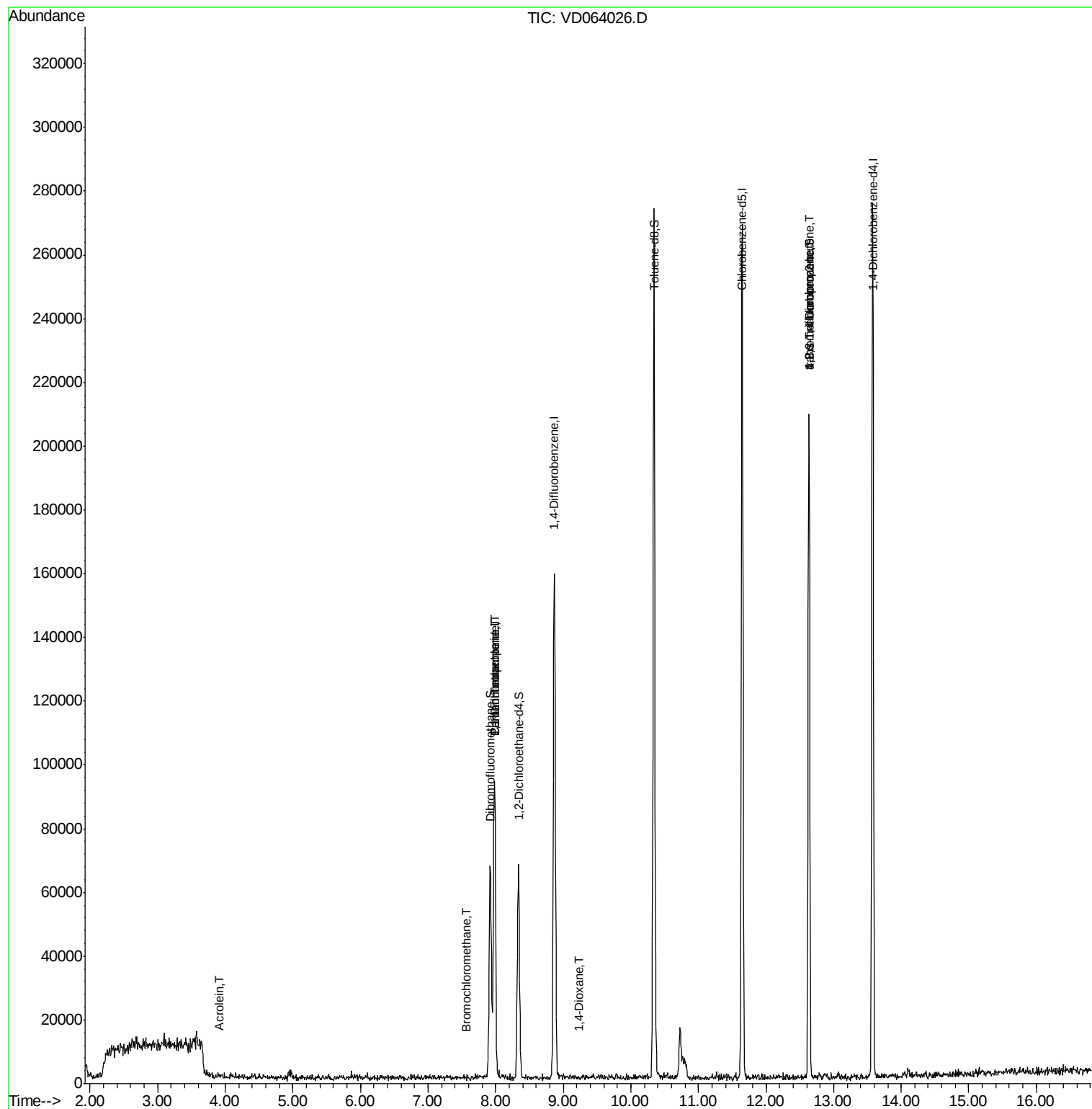
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	224	Below Cal	#	55
11) Tert butyl alcohol	5.24	59	104	Below Cal	#	1
13) Acrolein	3.91	56	61	1.016	ug/l #	1
20) Methylene Chloride	4.97	84	388	Below Cal	#	60
28) Bromochloromethane	7.56	49	62	1.994	ug/l #	10
31) Cyclohexane	7.99	56	1394	Below Cal	#	1
36) 1,1-Dichloropropene	7.99	75	6250	5.156	ug/l #	53
37) Ethyl Acetate	7.29	43	158	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	8085	6.601	ug/l #	19
49) 1,4-Dioxane	9.23	88	150	22.696	ug/l #	32
76) 1,2,3-Trichloropropane	12.64	75	31697	66.630	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	31697	117.908	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.58	75	61	Below Cal	#	1

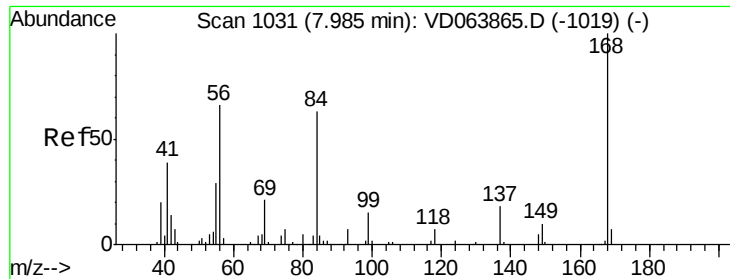
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 05 03:51:17 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064026.D

Acq: 23 Oct 2019 17:43

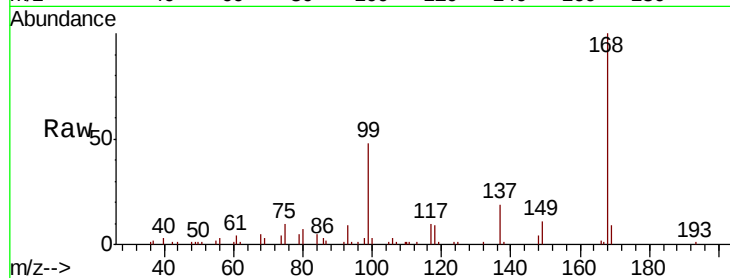
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 69072

Ion Ratio Lower Upper

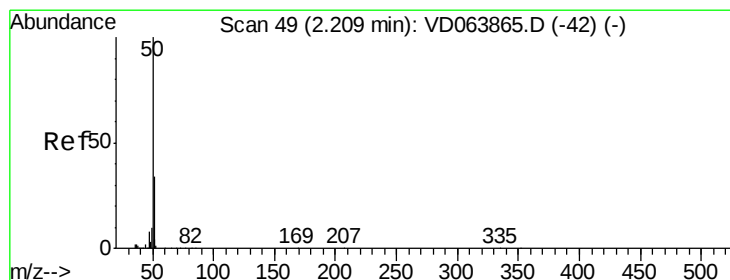
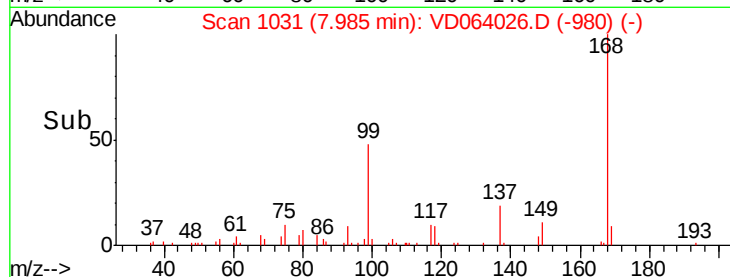
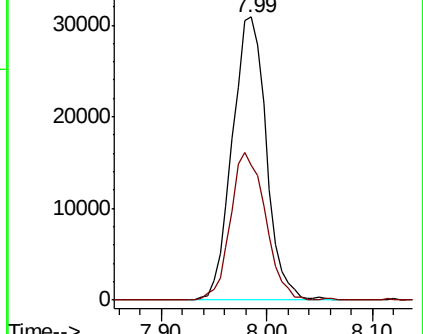
168 100

99 47.6 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064026.D

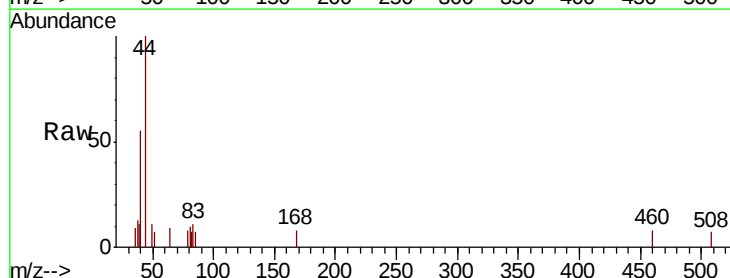
Acq: 23 Oct 2019 17:43

Tgt Ion: 50 Resp: 224

Ion Ratio Lower Upper

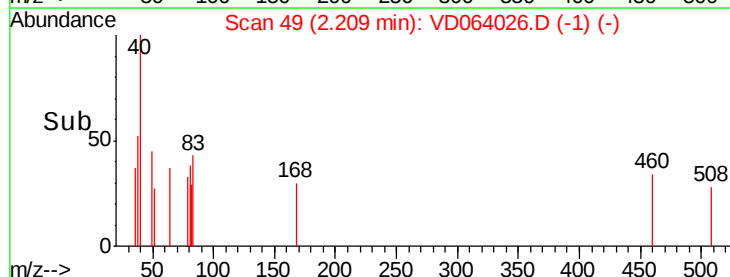
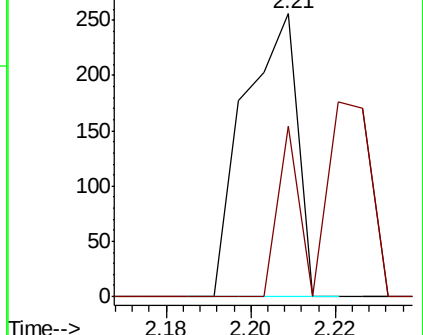
50 100

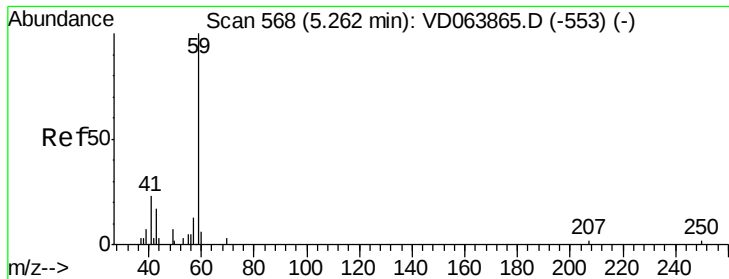
52 60.2 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



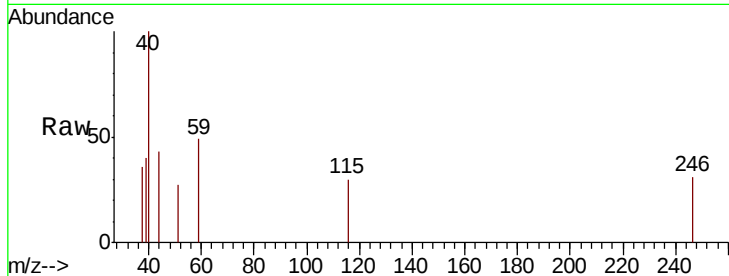


#11

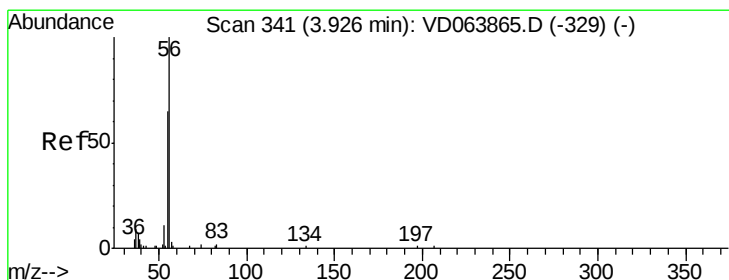
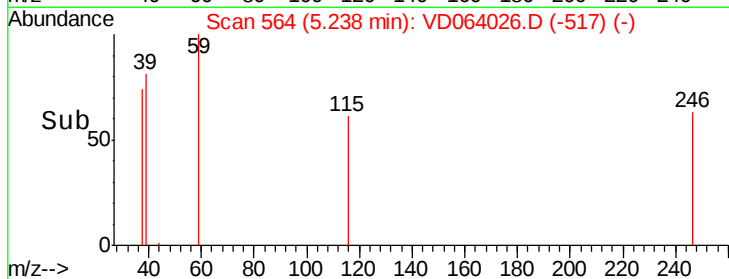
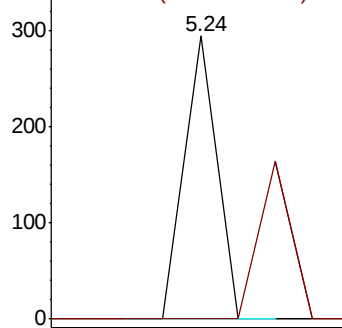
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.24 min Scan# 564
 Delta R.T. -0.02 min
 Lab File: VD064026.D
 Acq: 23 Oct 2019 17:43

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion: 59 Resp: 104
 Ion Ratio Lower Upper
 59 100
 57 55.8 8.8 13.2#



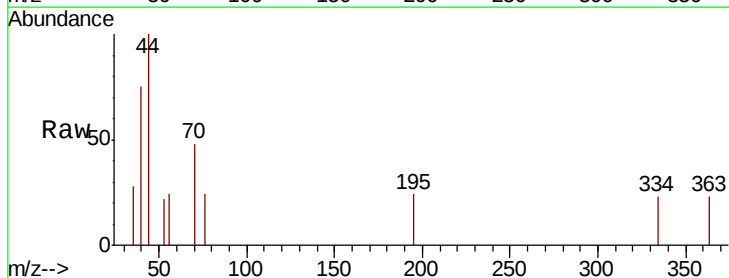
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



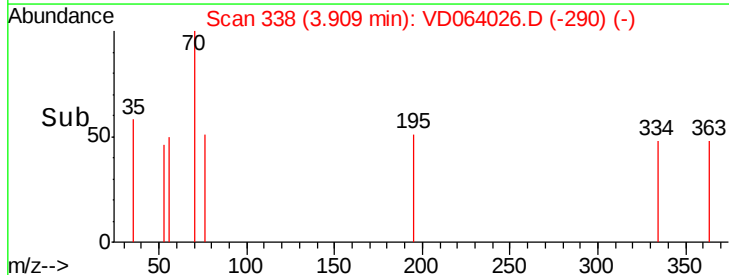
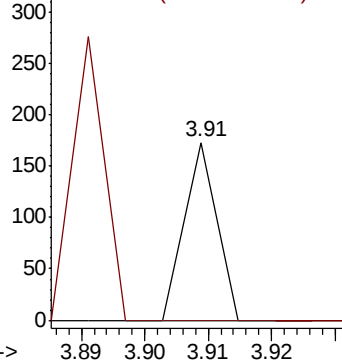
#13

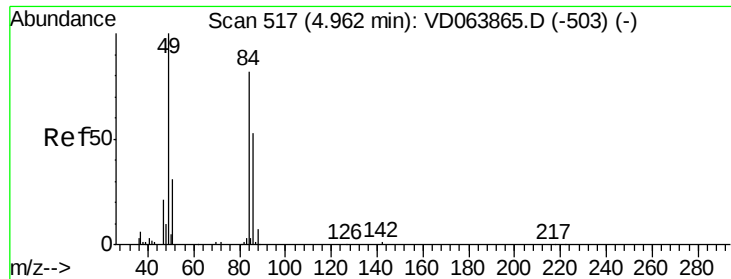
Acrolein
 Concen: 1.016 ug/l
 RT: 3.91 min Scan# 338
 Delta R.T. -0.02 min
 Lab File: VD064026.D
 Acq: 23 Oct 2019 17:43

Tgt Ion: 56 Resp: 61
 Ion Ratio Lower Upper
 56 100
 55 159.0 53.0 79.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC
 Ion 55.00 (54.70 to 55.70): VDC

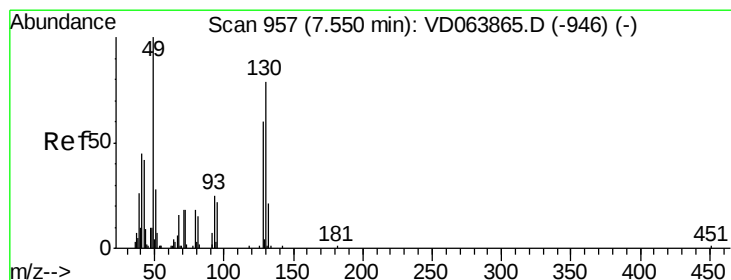
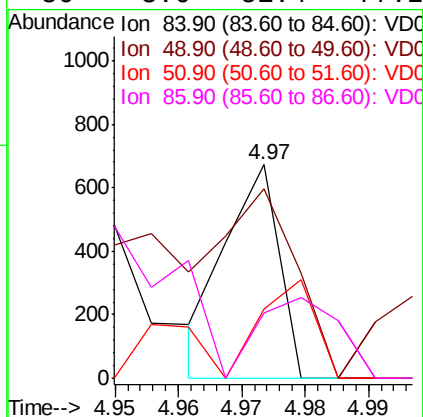
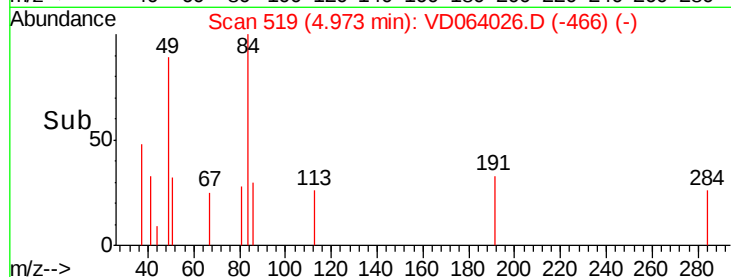
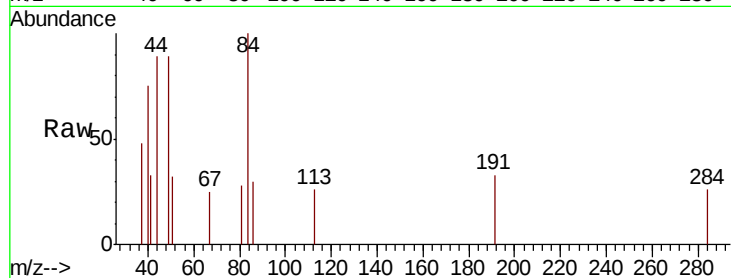




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD064026.D
Acq: 23 Oct 2019 17:43

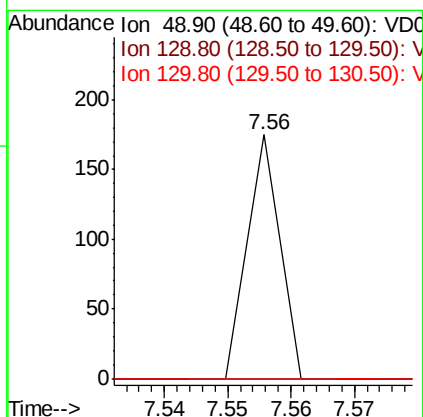
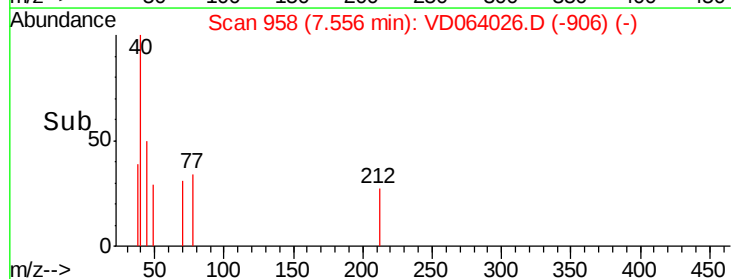
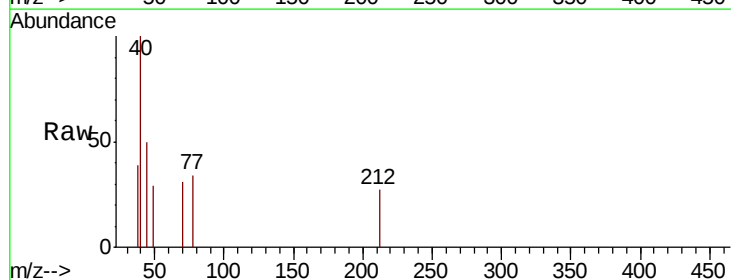
Instrument :
MSVOA_D
ClientSampleId :

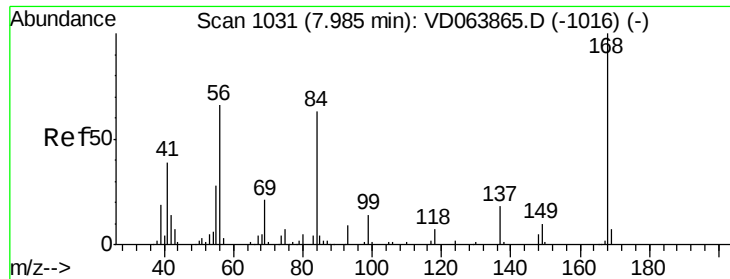
Tot Ion	Ratio	Lower	Upper
84	100		
49	88.9	97.3	145.9#
51	32.2	30.1	45.1
86	3.6	51.4	77.2#



#28
Bromochloromethane
Concen: 1.994 ug/l
RT: 7.56 min Scan# 958
Delta R.T. 0.01 min
Lab File: VD064026.D
Acq: 23 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.6
130	0.0	66.8	100.2#

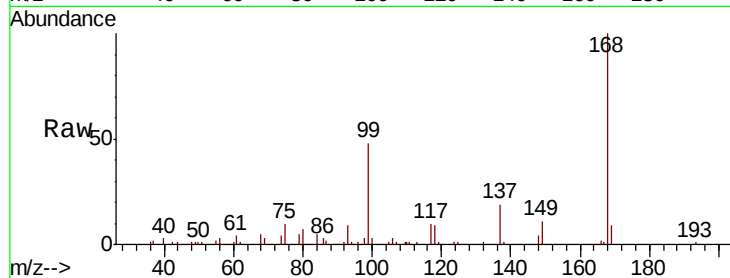




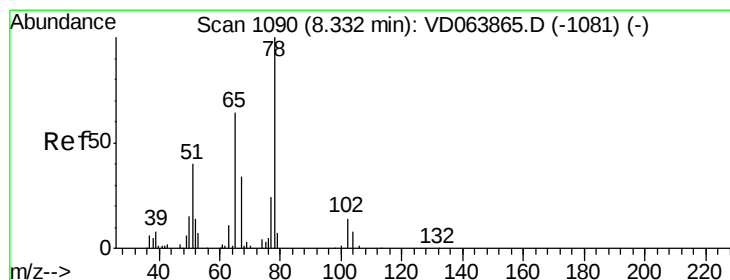
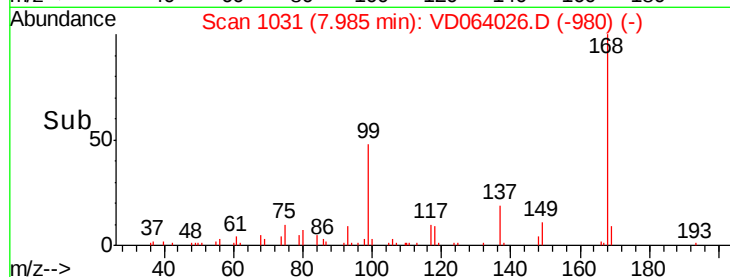
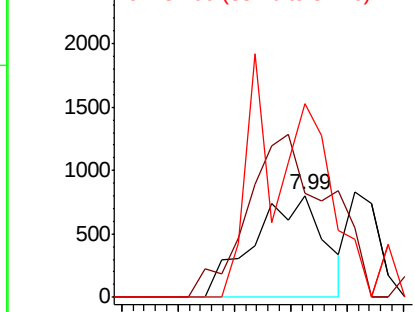
#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064026.D
Acq: 23 Oct 2019 17:43

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 1394
Ion Ratio Lower Upper
56 100
69 101.9 25.0 37.4#
84 191.0 76.3 114.5#

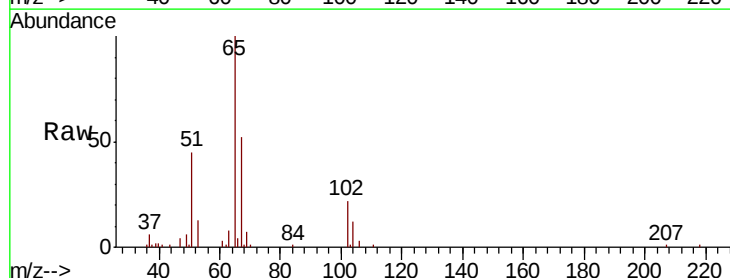


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

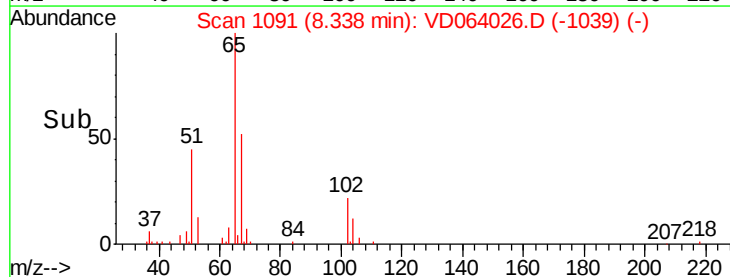
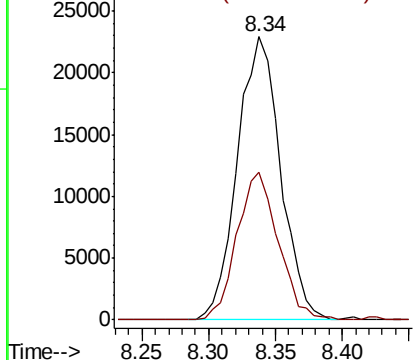


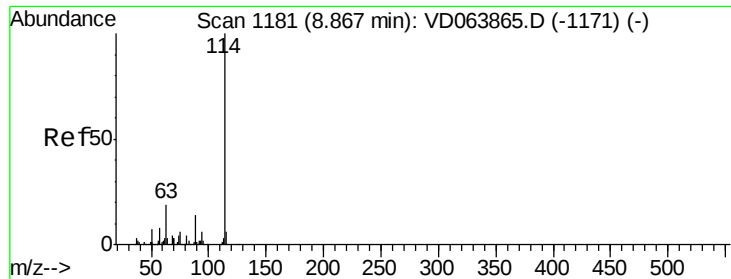
#33
1,2-Dichloroethane-d4
Concen: 76.408 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD064026.D
Acq: 23 Oct 2019 17:43

Tgt Ion: 65 Resp: 51382
Ion Ratio Lower Upper
65 100
67 49.7 0.0 106.4



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

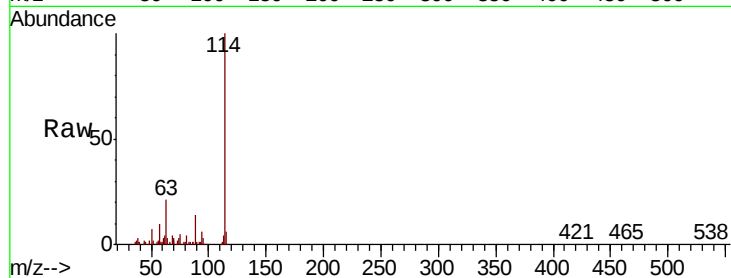




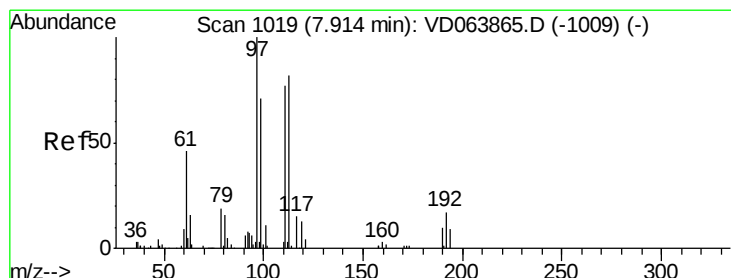
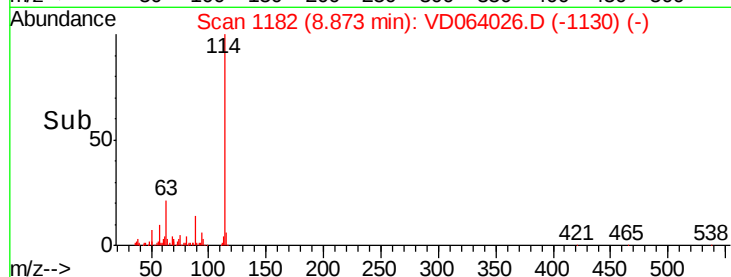
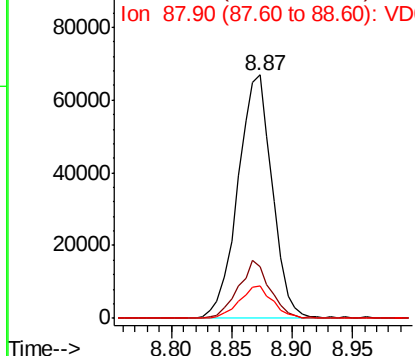
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1182
 Delta R.T. 0.01 min
 Lab File: VD064026.D
 Acq: 23 Oct 2019 17:43

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	38.4
88	13.5	0.0	27.4

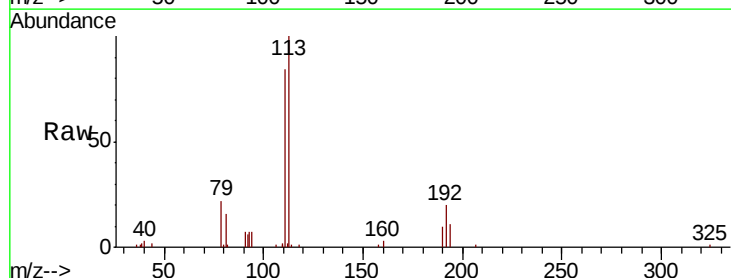


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

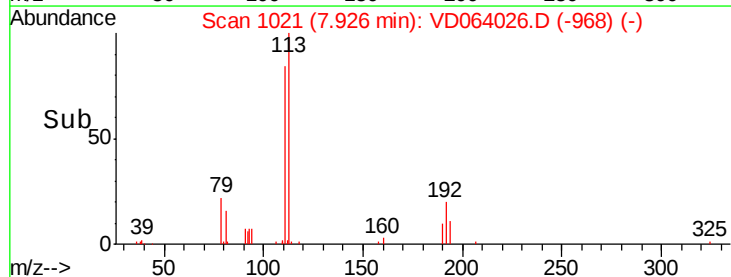
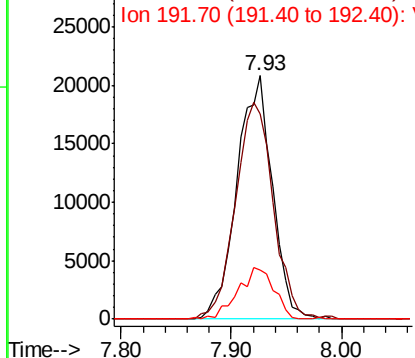


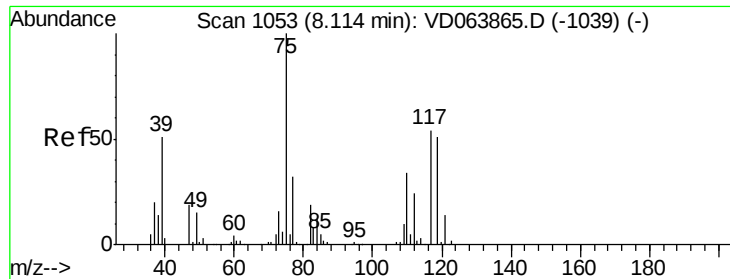
#35
 Dibromofluoromethane
 Concen: 58.023 ug/l
 RT: 7.93 min Scan# 1021
 Delta R.T. 0.01 min
 Lab File: VD064026.D
 Acq: 23 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
113	100		
111	94.9	82.6	123.8
192	21.5	17.1	25.7



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

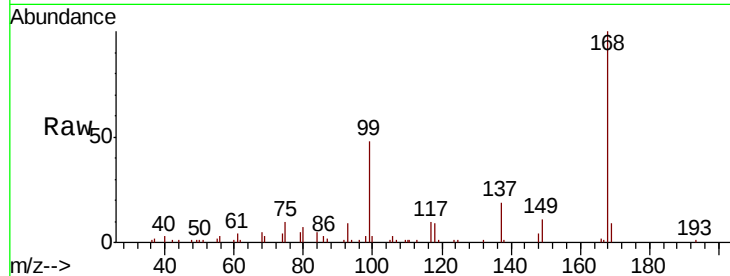




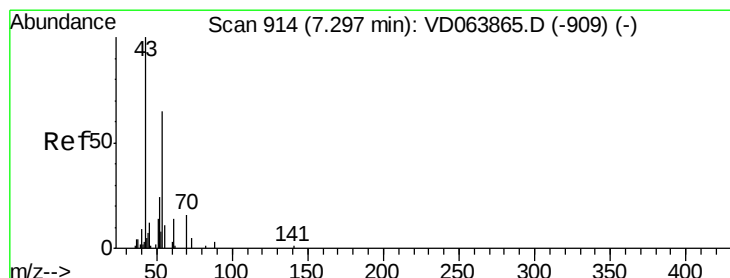
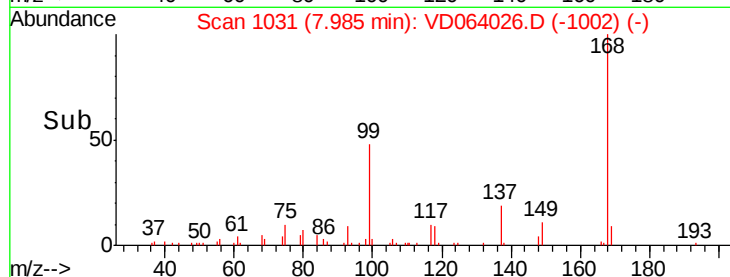
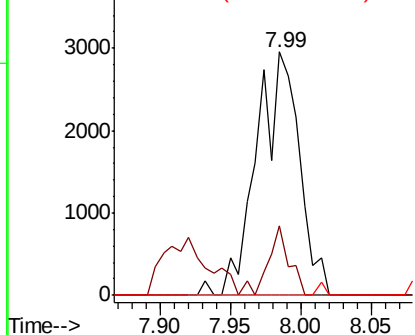
#36
 1,1-Dichloropropene
 Concen: 5.156 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064026.D
 Acq: 23 Oct 2019 17:43

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion: 75 Resp: 6250
 Ion Ratio Lower Upper
 75 100
 110 13.2 17.4 52.3#
 77 0.0 25.4 38.0#

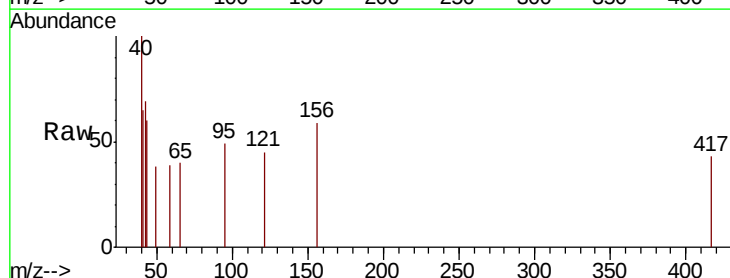


Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.90 (76.60 to 77.60): VDC

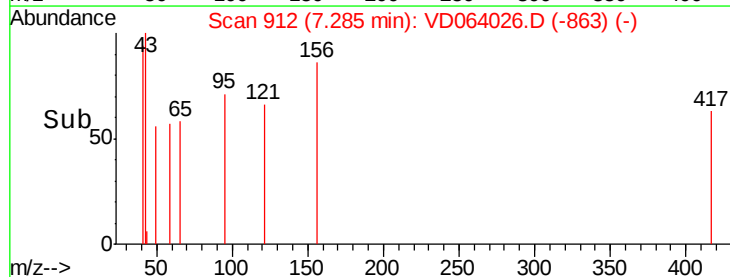
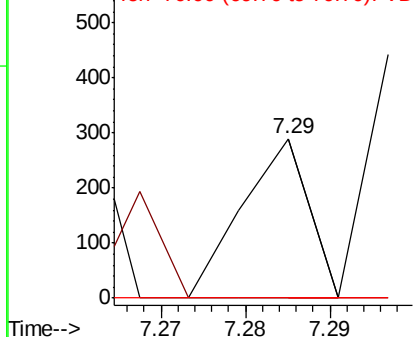


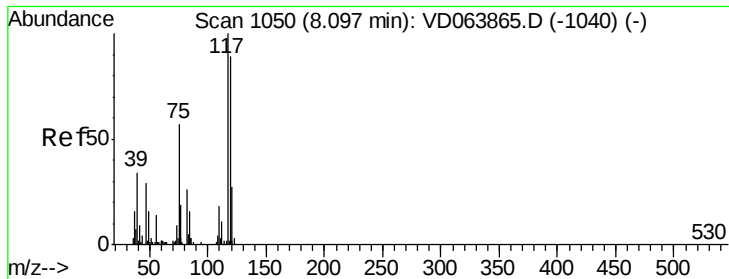
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.29 min Scan# 912
 Delta R.T. -0.01 min
 Lab File: VD064026.D
 Acq: 23 Oct 2019 17:43

Tgt Ion: 43 Resp: 158
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 8.2 12.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.601 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064026.D

Acq: 23 Oct 2019 17:43

Instrument :

MSVOA_D

ClientSampleId :

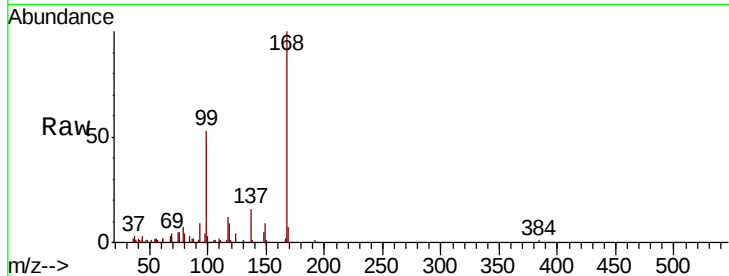
Tot Ion:117 Resp: 8085

Ion Ratio Lower Upper

117 100

119 5.2 70.8 106.2#

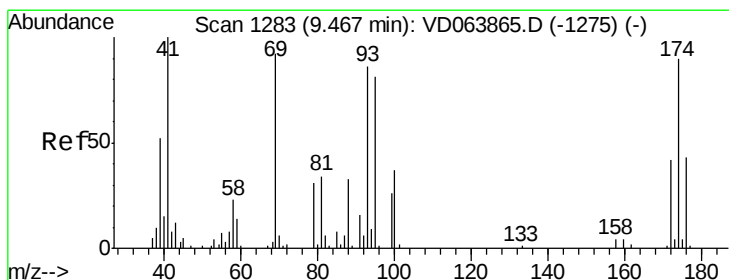
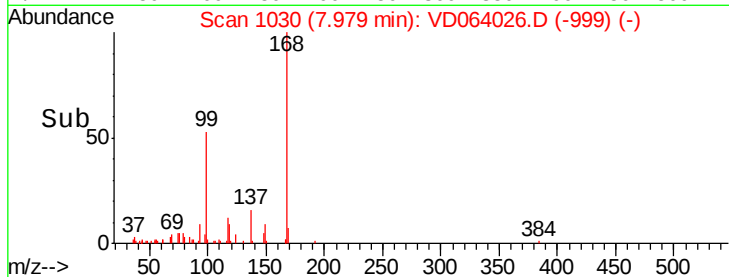
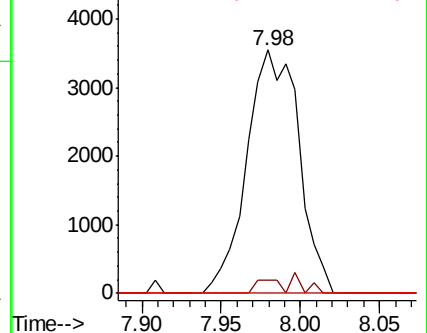
121 0.0 21.4 32.0#



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



#49

1,4-Dioxane

Concen: 22.696 ug/l

RT: 9.23 min Scan# 1243

Delta R.T. -0.24 min

Lab File: VD064026.D

Acq: 23 Oct 2019 17:43

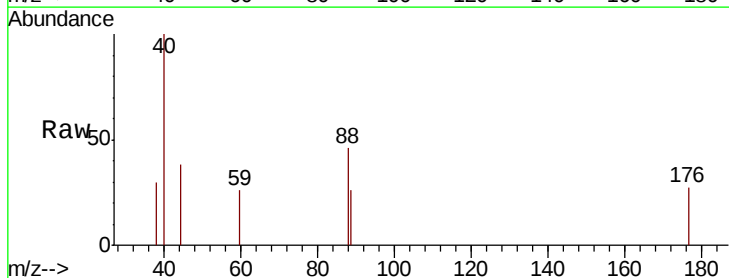
Tgt Ion: 88 Resp: 150

Ion Ratio Lower Upper

88 100

43 55.3 27.6 41.4#

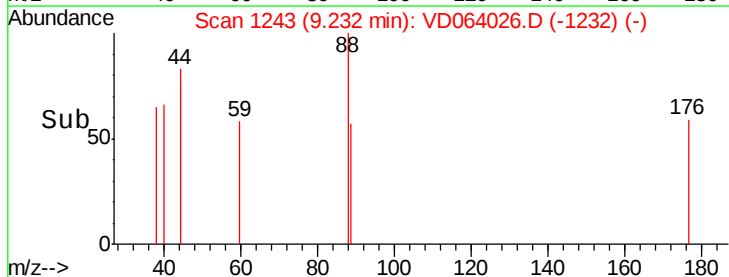
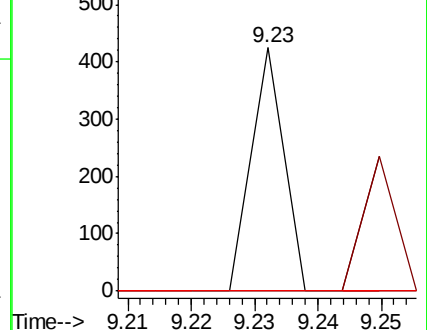
58 0.0 54.1 81.1#

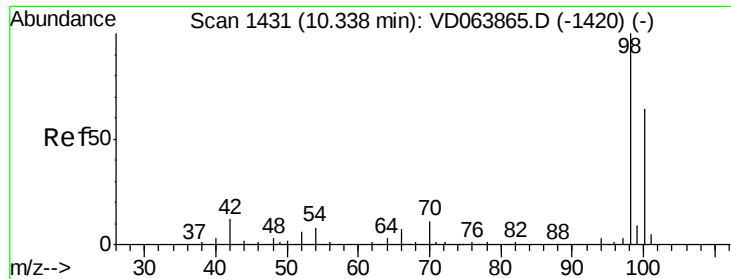


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

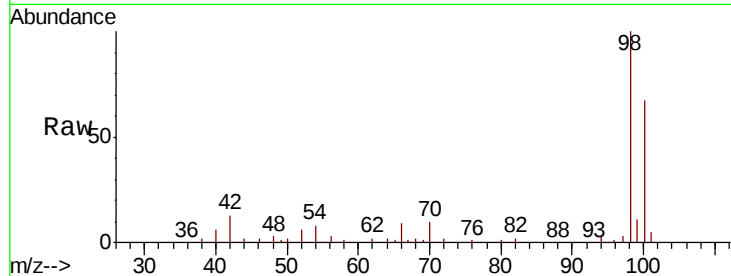




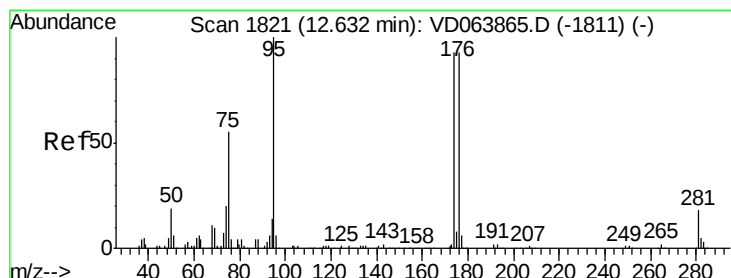
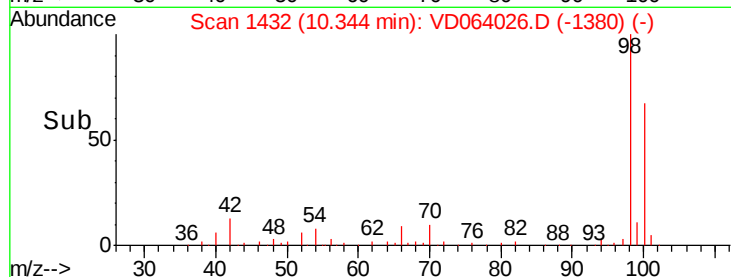
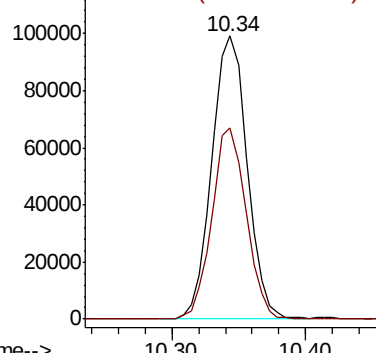
#50
Toluene-d8
Concen: 55.203 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064026.D
Acq: 23 Oct 2019 17:43

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 98 Resp: 181523
Ion Ratio Lower Upper
98 100
100 65.5 52.1 78.1

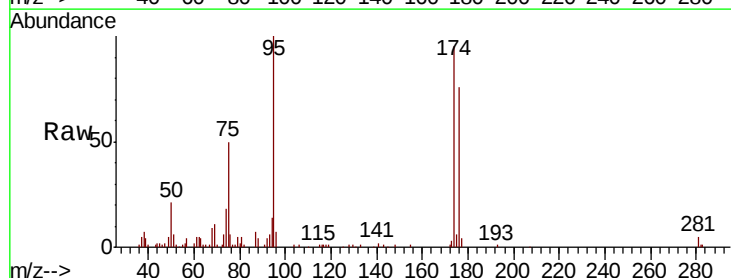


Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC

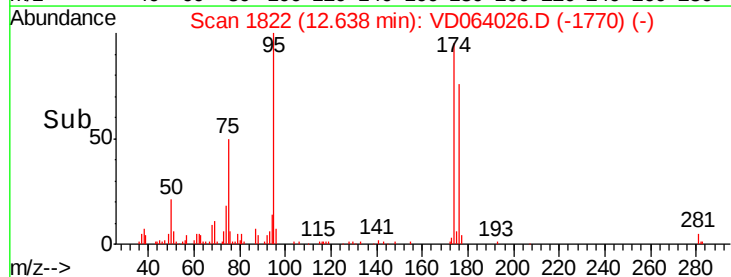
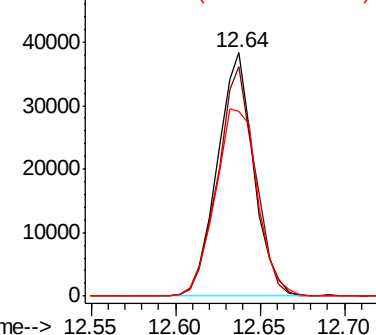


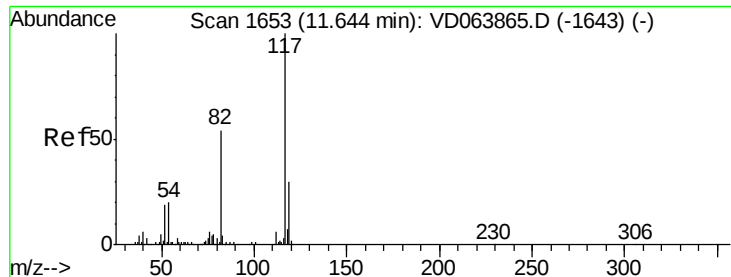
#62
4-Bromofluorobenzene
Concen: 50.377 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD064026.D
Acq: 23 Oct 2019 17:43

Tgt Ion: 95 Resp: 57564
Ion Ratio Lower Upper
95 100
174 96.1 0.0 186.4
176 89.6 0.0 184.2



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

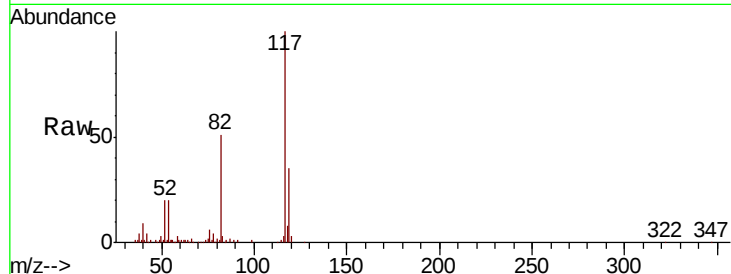




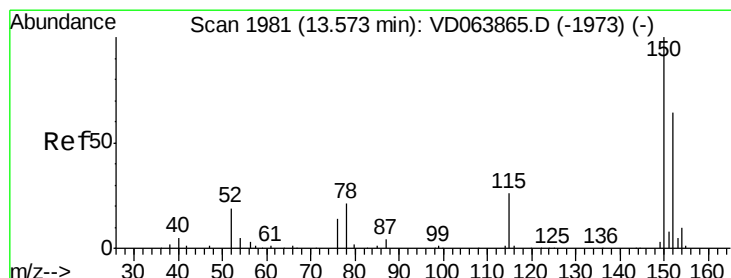
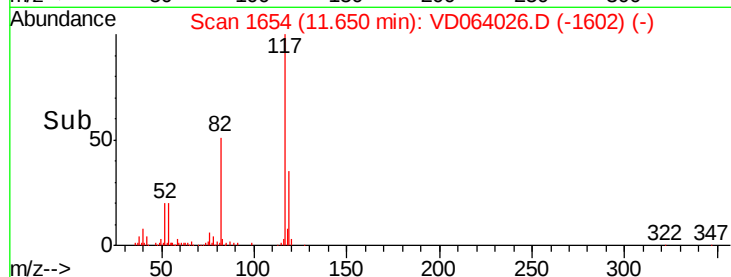
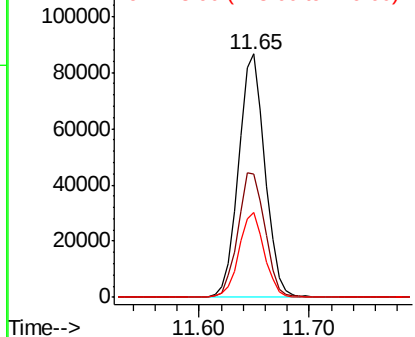
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD064026.D
Acq: 23 Oct 2019 17:43

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:117 Resp: 145568
Ion Ratio Lower Upper
117 100
82 50.8 42.8 64.2
119 34.5 24.4 36.6

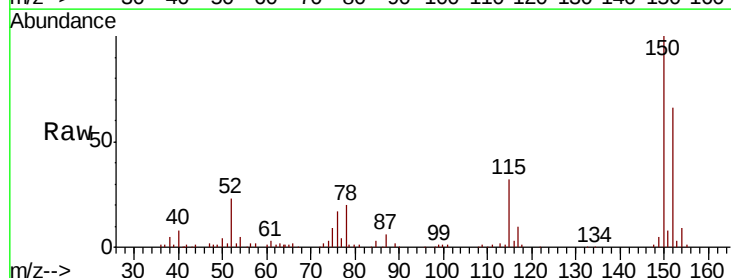


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

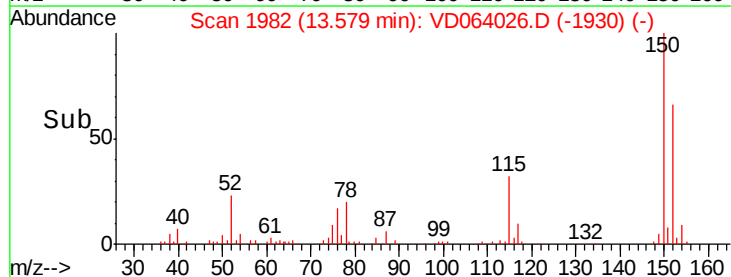
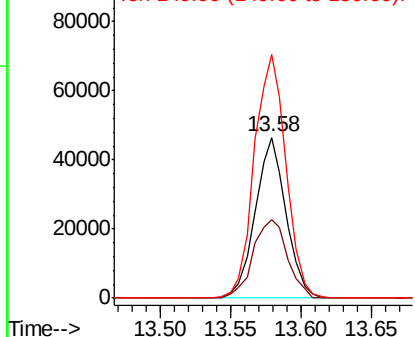


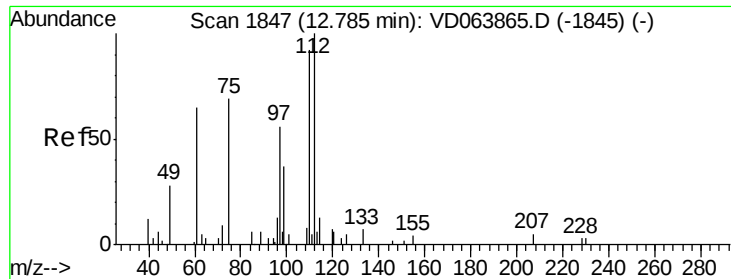
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD064026.D
Acq: 23 Oct 2019 17:43

Tgt Ion:152 Resp: 71027
Ion Ratio Lower Upper
152 100
115 54.5 25.9 77.7
150 156.5 0.0 344.2



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

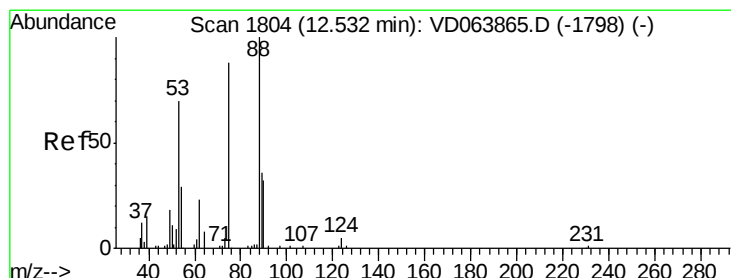
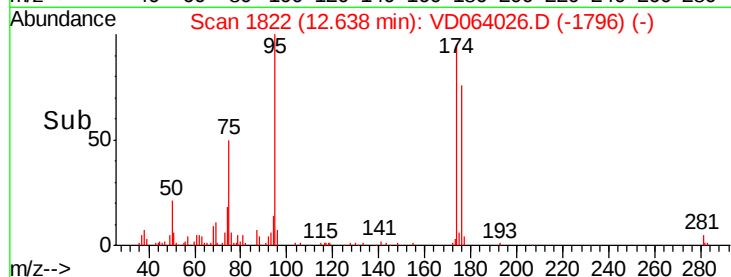
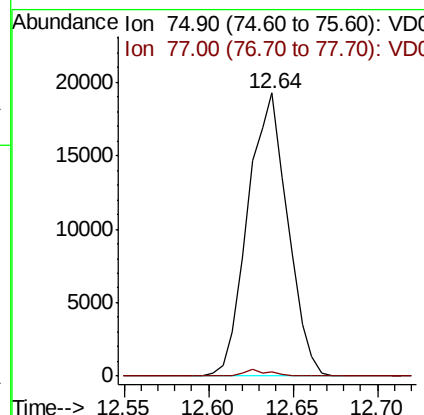
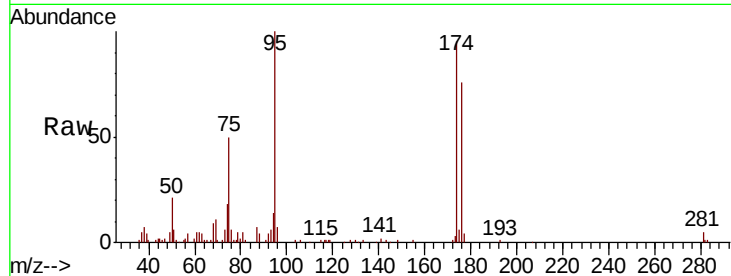




#76
 1,2,3-Trichloropropane
 Concen: 66.630 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064026.D
 Acq: 23 Oct 2019 17:43

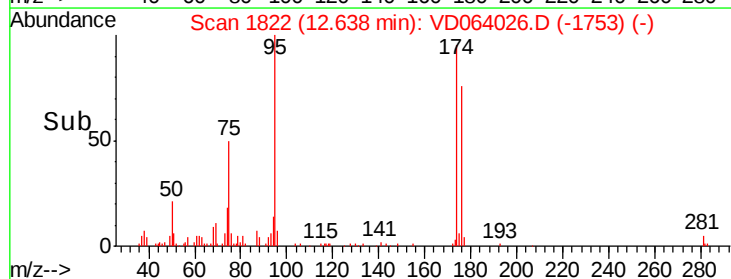
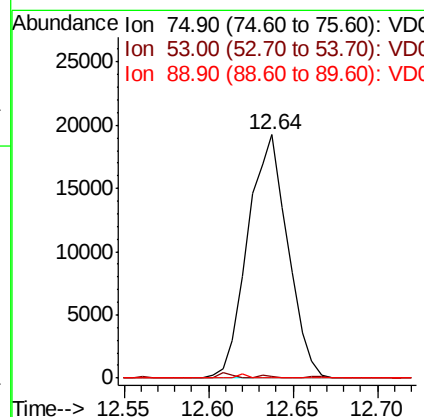
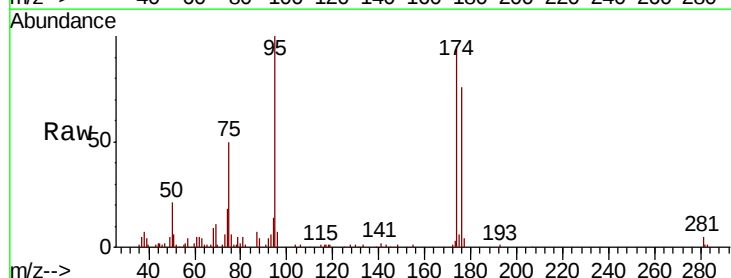
Instrument :
 MSVOA_D
 ClientSampleId :

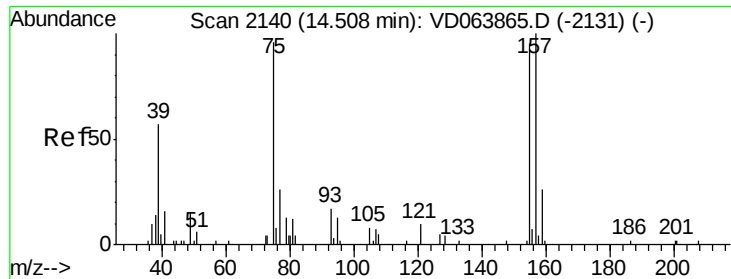
Tot Ion: 75 Resp: 31697
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 117.908 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD064026.D
 Acq: 23 Oct 2019 17:43

Tgt Ion: 75 Resp: 31697
 Ion Ratio Lower Upper
 75 100
 53 0.4 75.0 112.6#
 89 0.3 38.2 57.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.58 min Scan# 2152

Delta R.T. 0.07 min

Lab File: VD064026.D

Acq: 23 Oct 2019 17:43

Instrument :

MSVOA_D

ClientSampleId :

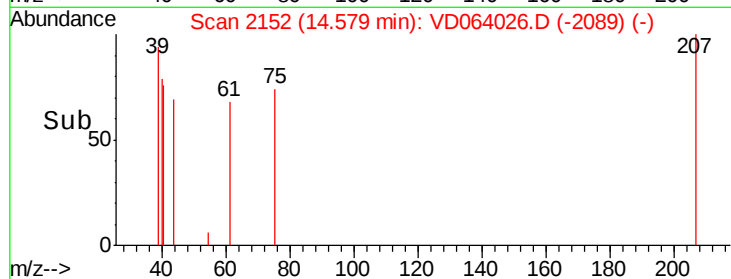
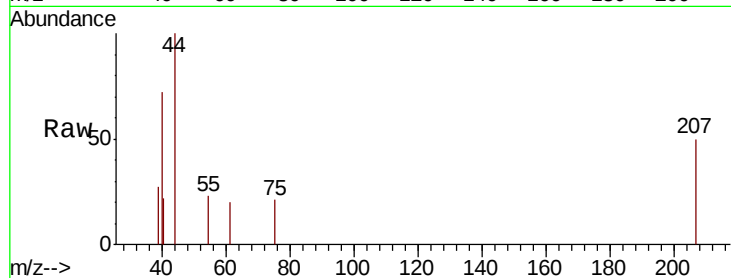
Tot Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#



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

