

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120519\
 Data File : VD064434.D
 Acq On : 05 Dec 2019 14:10
 Operator : VA/SY
 Sample : K6147-07
 Misc : 5.53G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P001-WC007

Quant Time: Dec 06 05:54:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	49096	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	83088	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	83278	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	42627	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	34054	76.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	153.26%	
35) Dibromofluoromethane	7.93	113	28786	54.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.98%	
50) Toluene-d8	10.34	98	100214	50.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.64%	
62) 4-Bromofluorobenzene	12.64	95	36267	57.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.46%	

Target Compounds

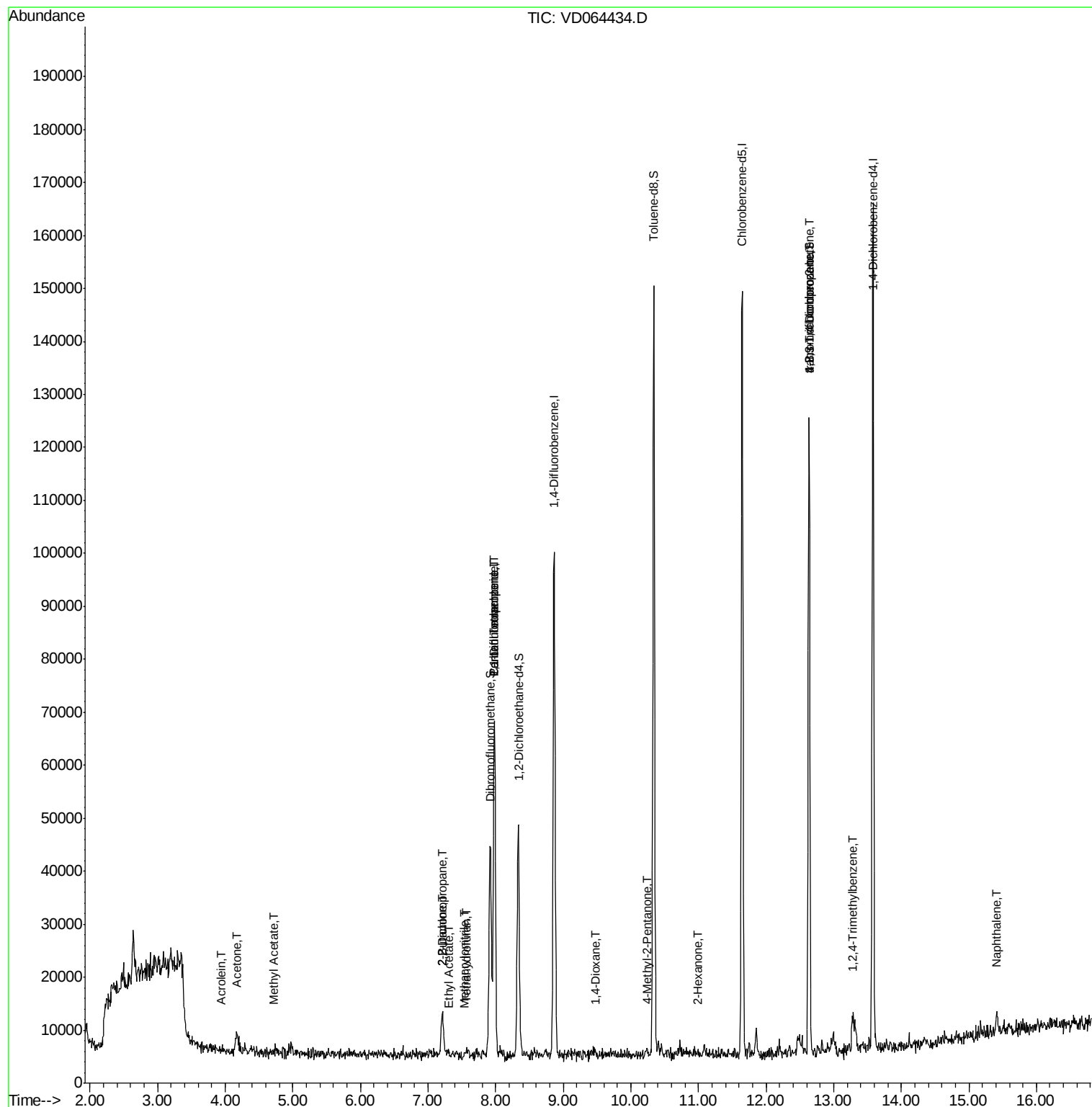
						Qvalue
13) Acrolein	3.93	56	55	1.425	ug/l #	50
16) Acetone	4.17	43	6812	75.855	ug/l	100
18) Methyl Acetate	4.72	43	399	1.523	ug/l #	51
20) Methylene Chloride	4.95	84	333	Below Cal	#	39
25) 2-Butanone	7.21	43	697	5.488	ug/l #	49
26) 2,2-Dichloropropane	7.21	77	841	1.179	ug/l #	67
29) Tetrahydrofuran	7.57	42	199	2.463	ug/l #	80
31) Cyclohexane	7.98	56	1328	Below Cal	#	35
36) 1,1-Dichloropropene	7.98	75	3536	4.499	ug/l #	45
37) Ethyl Acetate	7.31	43	712	2.135	ug/l #	69
38) Carbon Tetrachloride	7.98	117	4747	5.723	ug/l #	20
41) Methacrylonitrile	7.54	41	352	1.841	ug/l #	42
49) 1,4-Dioxane	9.47	88	374	102.796	ug/l #	53
51) 4-Methyl-2-Pentanone	10.23	43	447	1.378	ug/l #	80
59) 2-Hexanone	10.99	43	575	2.554	ug/l #	57
76) 1,2,3-Trichloropropane	12.64	75	19230	54.857	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	19230	119.616	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.27	105	4505	1.788	ug/l	73
92) 1,2-Dibromo-3-Chloropropan	14.51	75	67	Below Cal	#	1
95) Naphthalene	15.41	128	3796	2.419	ug/l #	94

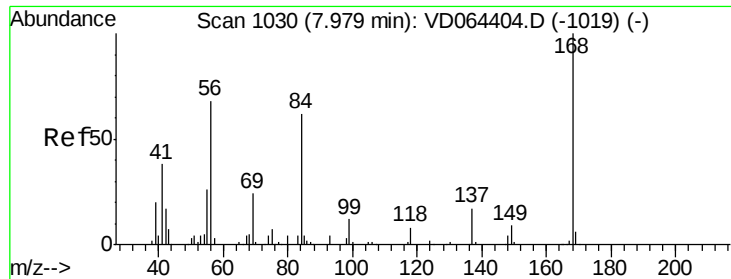
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

Instrument :

MSVOA_D

ClientSampleId :

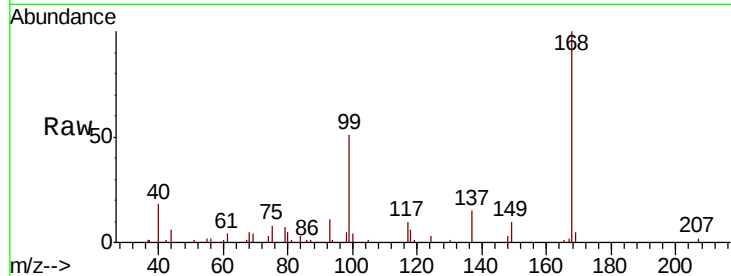
P001-WC007

Tot Ion:168 Resp: 49096

Ion Ratio Lower Upper

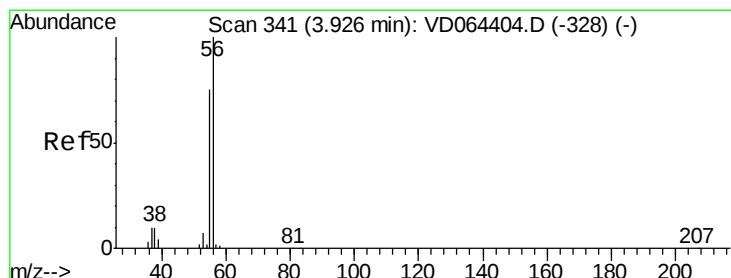
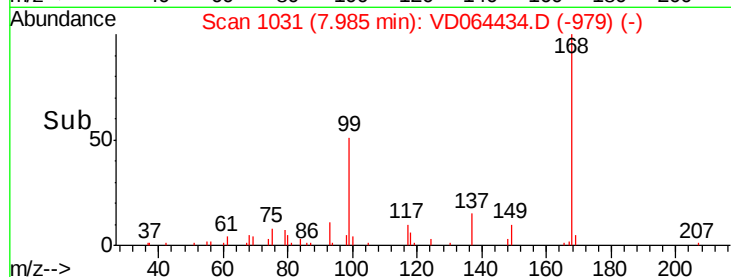
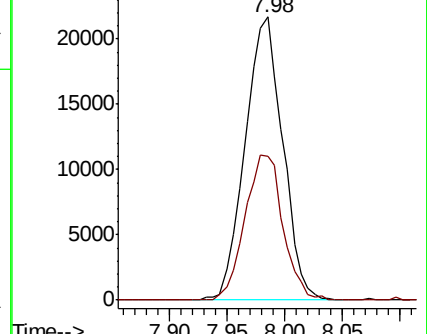
168 100

99 51.1 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#13

Acrolein

Concen: 1.425 ug/l

RT: 3.93 min Scan# 342

Delta R.T. 0.01 min

Lab File: VD064434.D

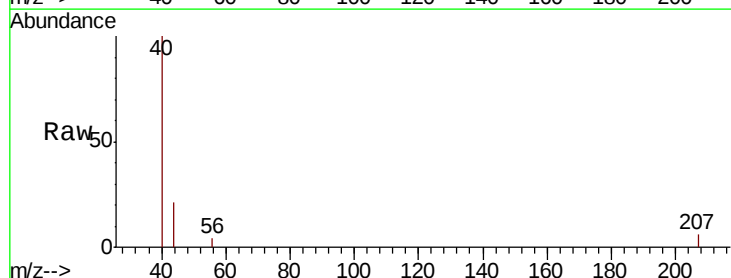
Acq: 05 Dec 2019 14:10

Tgt Ion: 56 Resp: 55

Ion Ratio Lower Upper

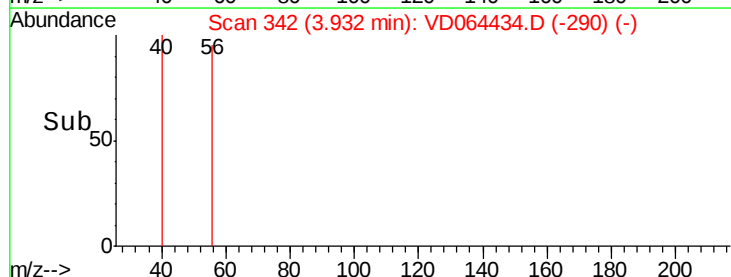
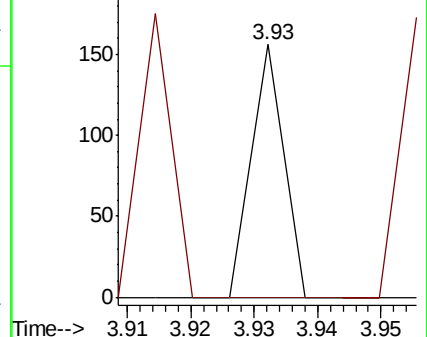
56 100

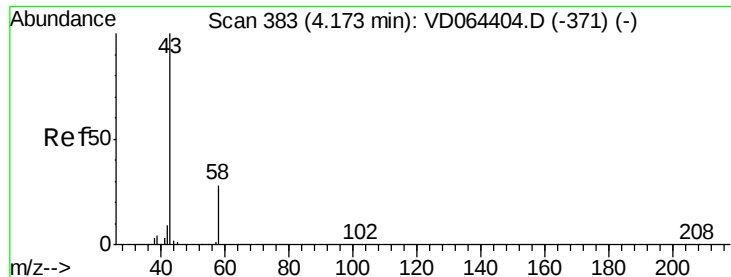
55 112.7 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 75.855 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

Instrument :

MSVOA_D

ClientSampleId :

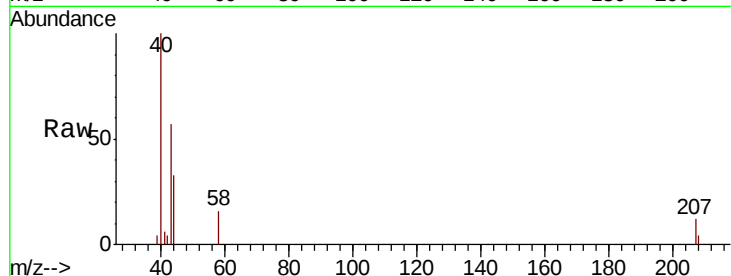
P001-WC007

Tot Ion: 43 Resp: 6812

Ion Ratio Lower Upper

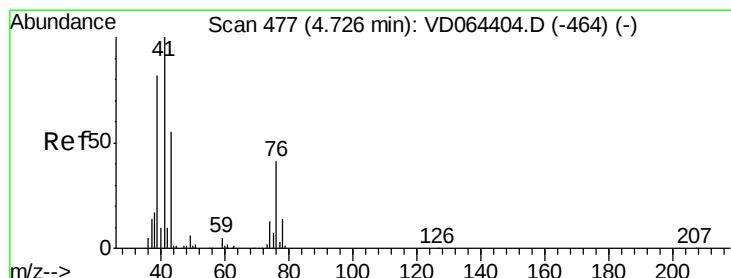
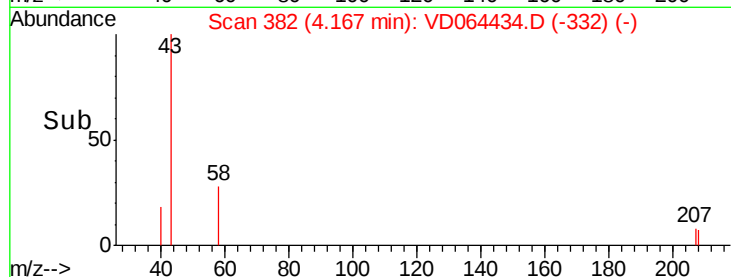
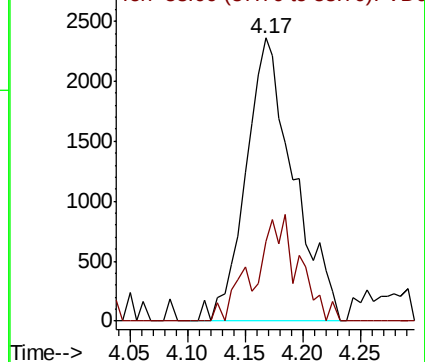
43 100

58 28.4 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 1.523 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD064434.D

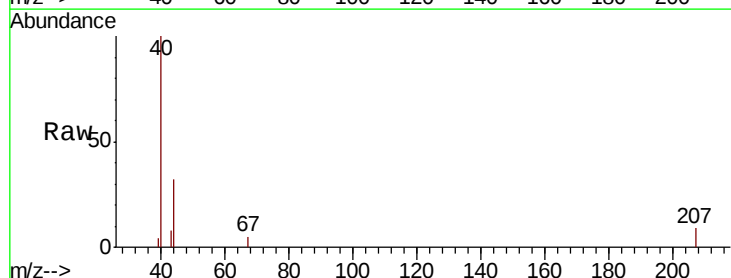
Acq: 05 Dec 2019 14:10

Tgt Ion: 43 Resp: 399

Ion Ratio Lower Upper

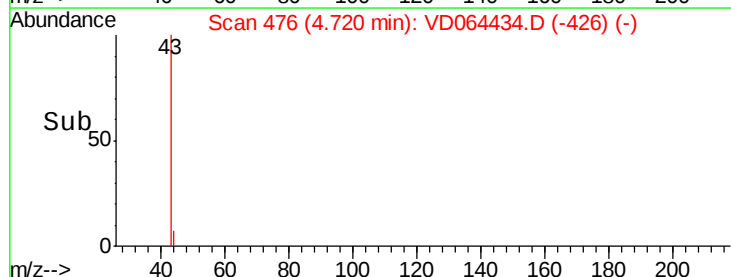
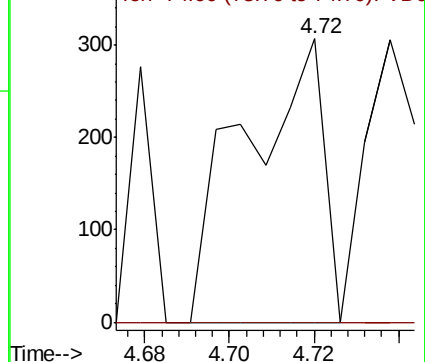
43 100

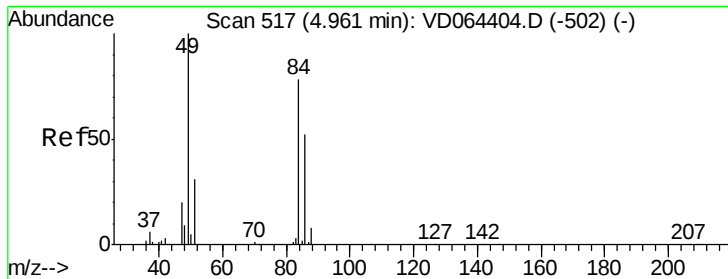
74 0.0 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

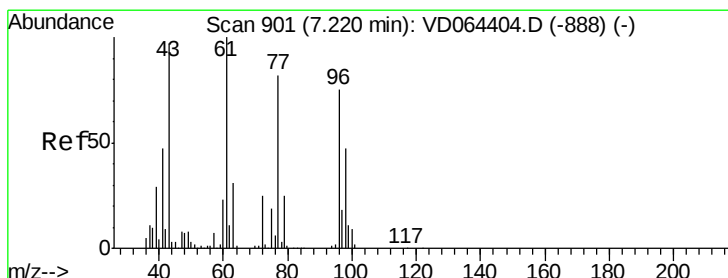
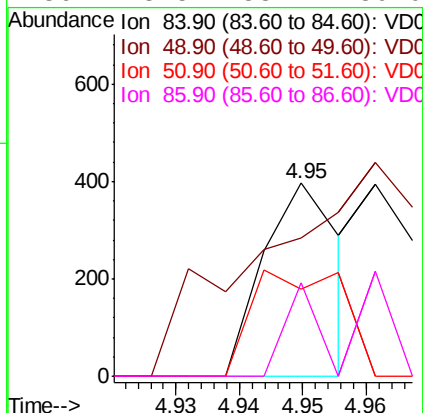
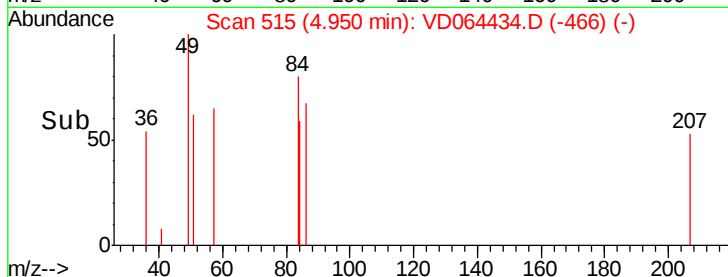
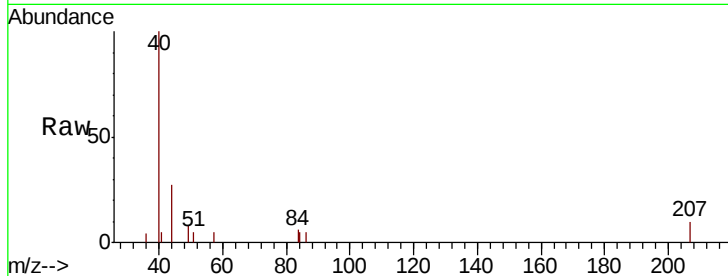




#20
Methylene Chloride
Concen: Below Cal
RT: 4.95 min Scan# 515
Delta R.T. -0.01 min
Lab File: VD064434.D
Acq: 05 Dec 2019 14:10

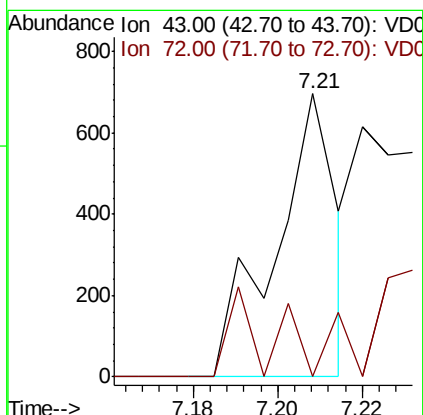
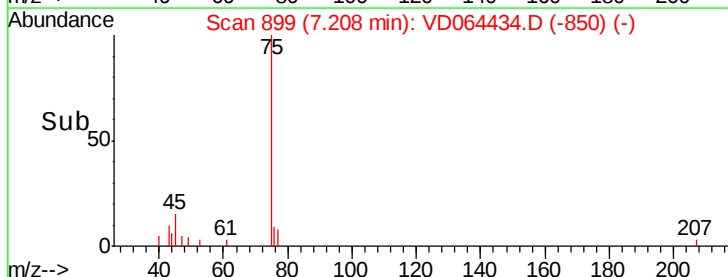
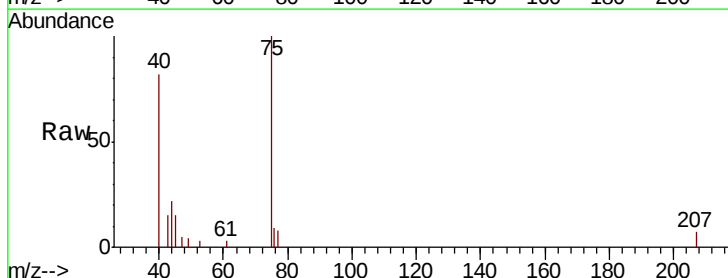
Instrument :
MSVOA_D
ClientSampleId :
P001-WC007

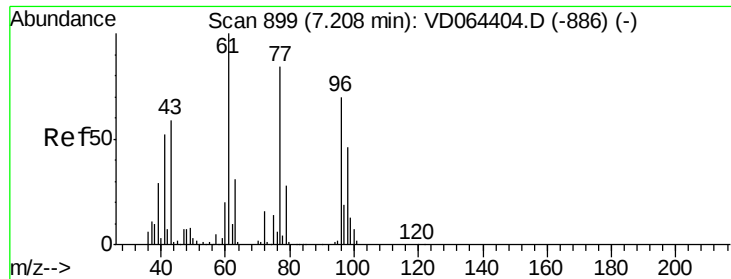
Tot Ion: 84 Resp: 333
Ion Ratio Lower Upper
84 100
49 16.2 102.6 153.8#
51 44.9 32.0 48.0
86 48.5 53.4 80.0#



#25
2-Butanone
Concen: 5.488 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD064434.D
Acq: 05 Dec 2019 14:10

Tgt Ion: 43 Resp: 697
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.4#

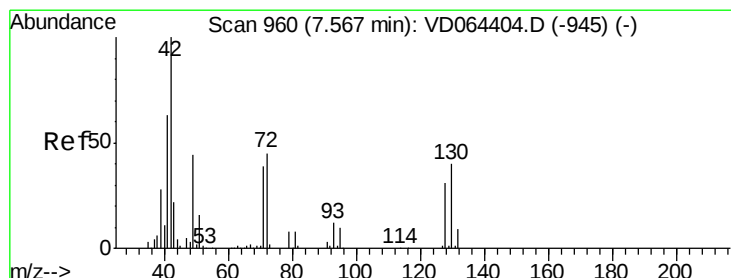
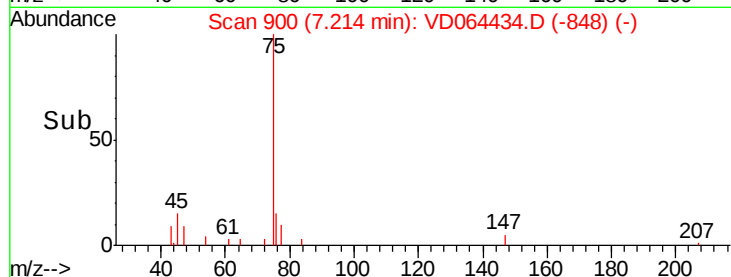
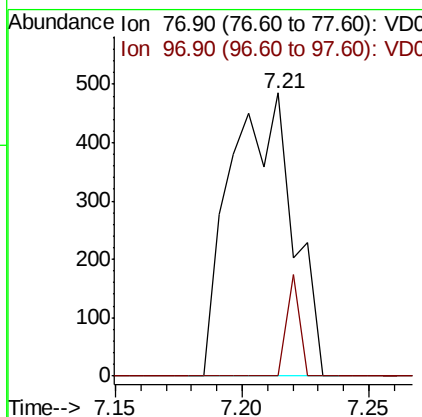
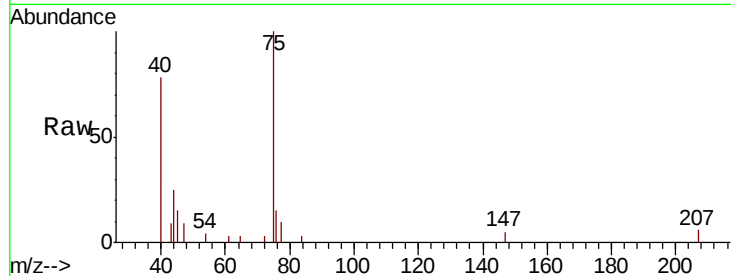




#26
 2,2-Dichloropropane
 Concen: 1.179 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VD064434.D
 Acq: 05 Dec 2019 14:10

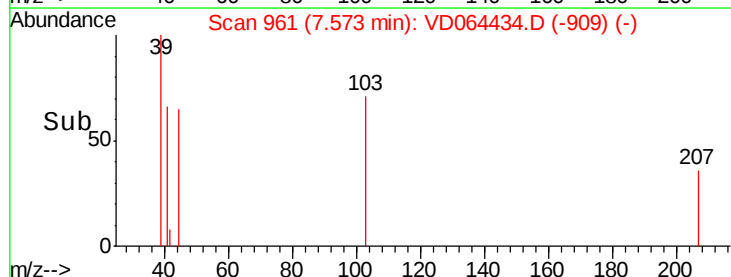
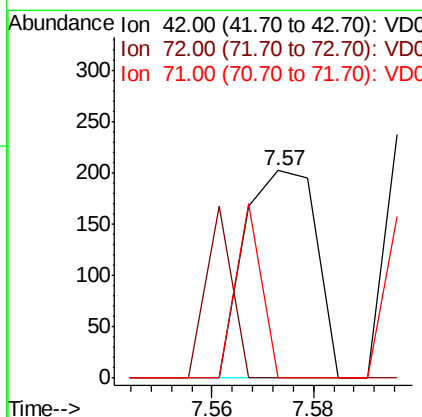
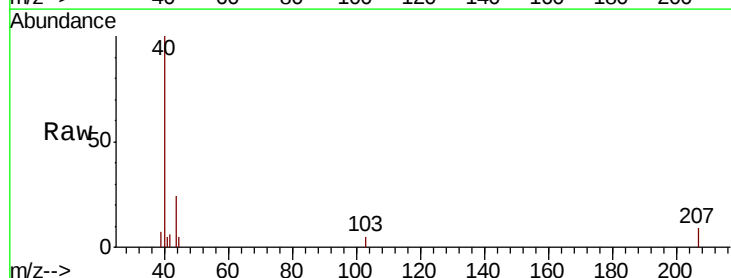
Instrument :
 MSVOA_D
 ClientSampled :
 P001-WC007

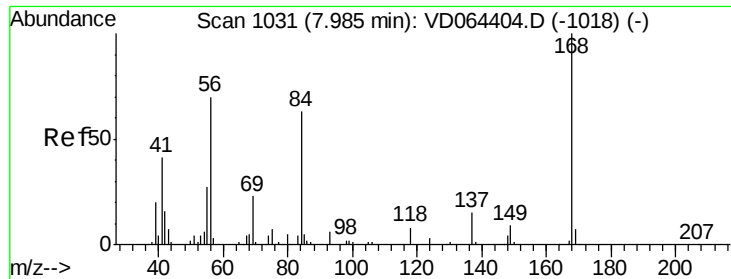
Tot Ion: 77 Resp: 841
 Ion Ratio Lower Upper
 77 100
 97 7.3 11.6 34.7#



#29
 Tetrahydrofuran
 Concen: 2.463 ug/l
 RT: 7.57 min Scan# 961
 Delta R.T. 0.01 min
 Lab File: VD064434.D
 Acq: 05 Dec 2019 14:10

Tgt Ion: 42 Resp: 199
 Ion Ratio Lower Upper
 42 100
 72 29.6 35.8 53.8#
 71 30.2 32.7 49.1#

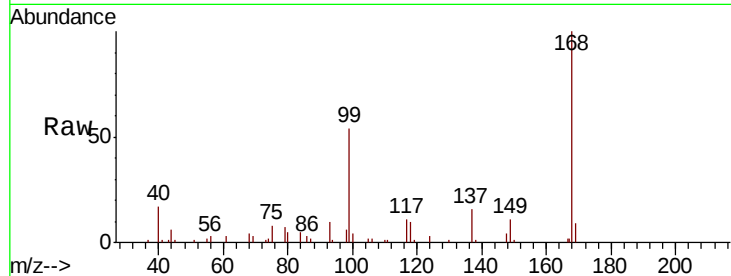




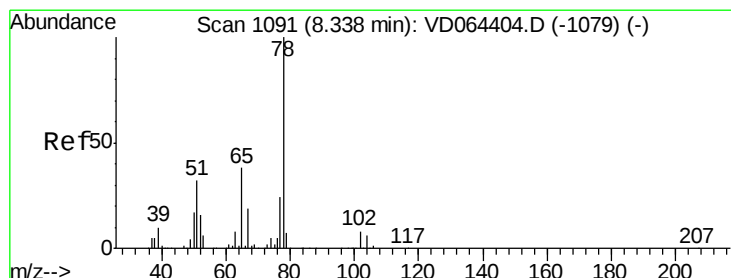
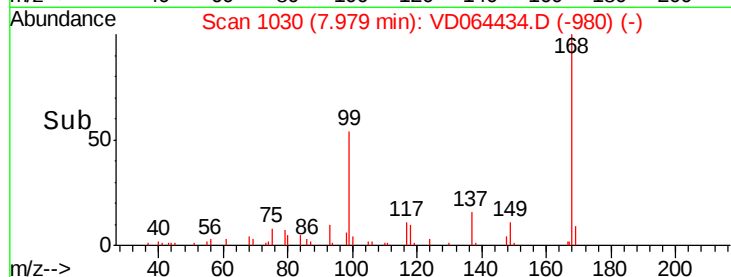
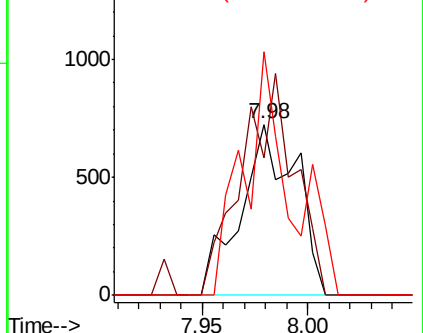
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064434.D
Acq: 05 Dec 2019 14:10

Instrument :
MSVOA_D
ClientSampleId :
P001-WC007

Tot Ion: 56 Resp: 1328
Ion Ratio Lower Upper
56 100
69 80.3 26.2 39.4#
84 142.1 70.3 105.5#

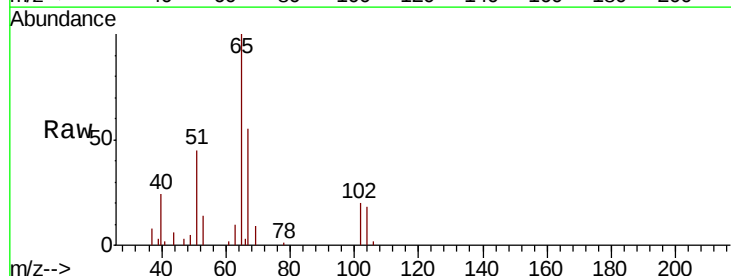


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

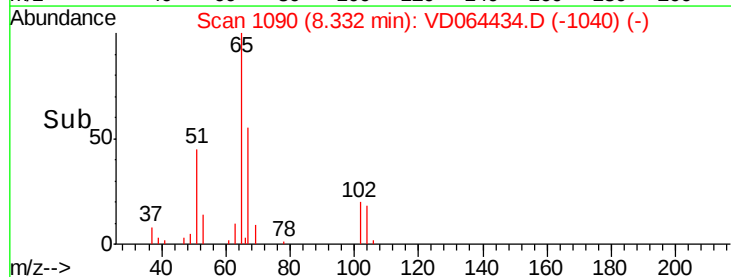
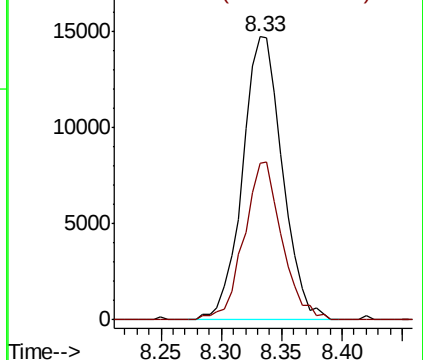


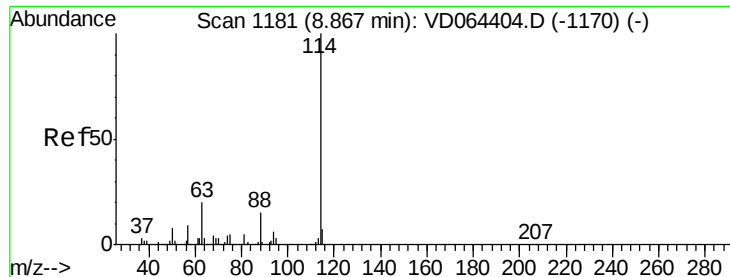
#33
1,2-Dichloroethane-d4
Concen: 76.631 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD064434.D
Acq: 05 Dec 2019 14:10

Tgt Ion: 65 Resp: 34054
Ion Ratio Lower Upper
65 100
67 52.9 0.0 102.0



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

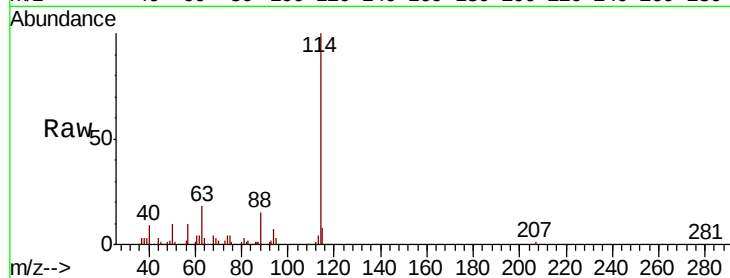




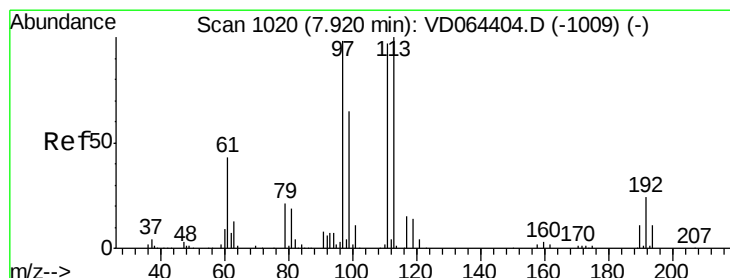
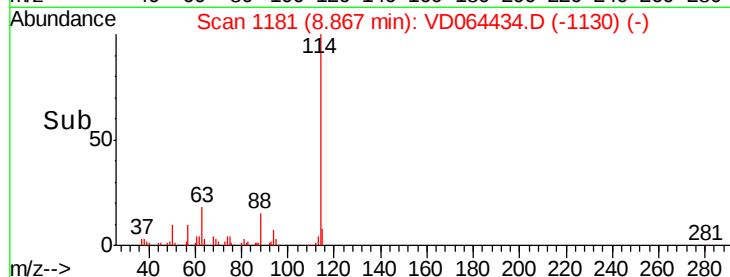
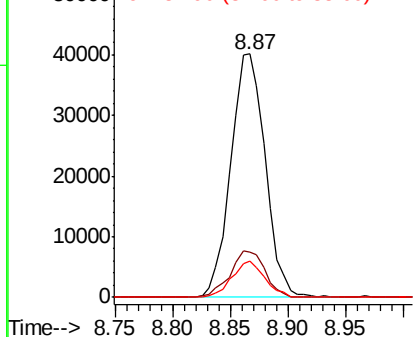
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD064434.D
Acq: 05 Dec 2019 14:10

Instrument :
MSVOA_D
ClientSampleId :
P001-WC007

Tot Ion:114 Resp: 83088
Ion Ratio Lower Upper
114 100
63 18.5 0.0 40.0
88 14.7 0.0 29.2

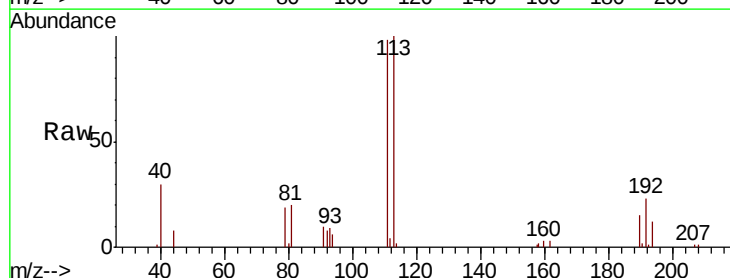


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

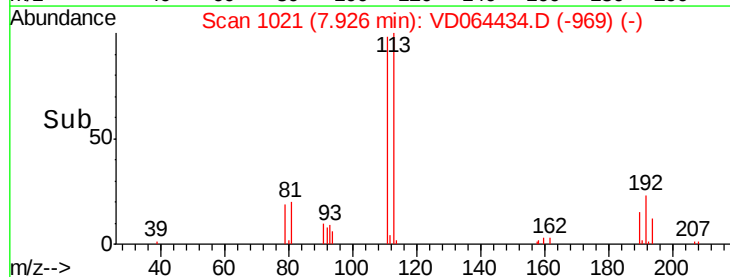
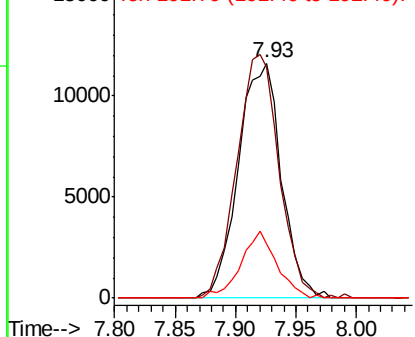


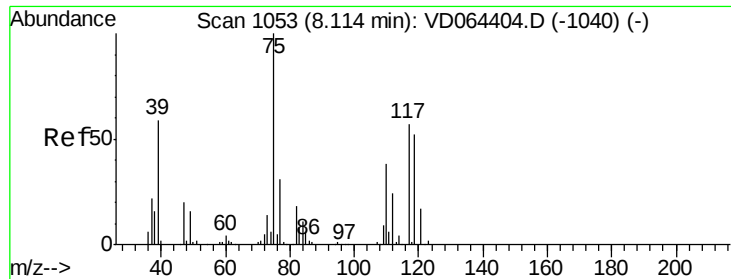
#35
Dibromofluoromethane
Concen: 54.988 ug/l
RT: 7.93 min Scan# 1021
Delta R.T. 0.01 min
Lab File: VD064434.D
Acq: 05 Dec 2019 14:10

Tgt Ion:113 Resp: 28786
Ion Ratio Lower Upper
113 100
111 102.6 79.4 119.2
192 23.9 18.6 28.0



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: 4.499 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

Instrument :

MSVOA_D

ClientSampleId :

P001-WC007

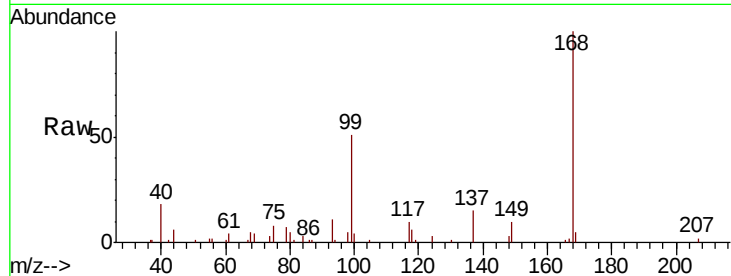
Tot Ion: 75 Resp: 3536

Ion Ratio Lower Upper

75 100

110 4.9 18.6 55.8#

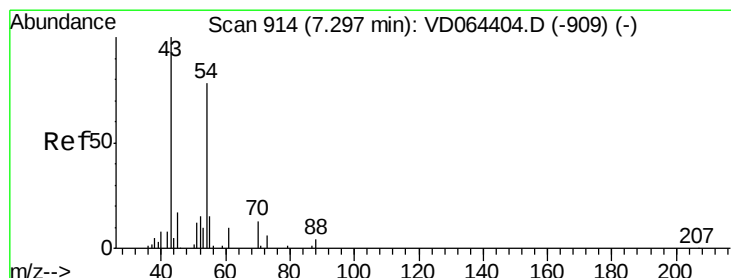
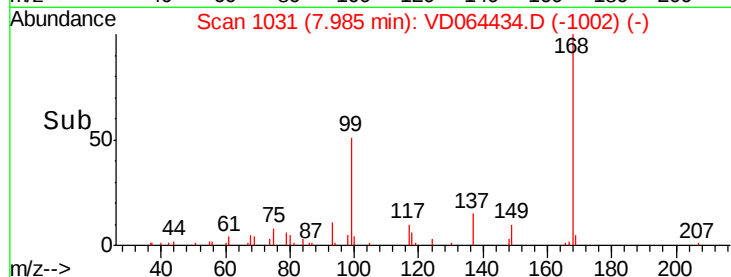
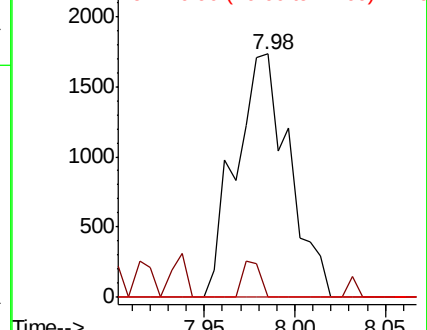
77 0.0 25.0 37.4#



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: 2.135 ug/l

RT: 7.31 min Scan# 917

Delta R.T. 0.02 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

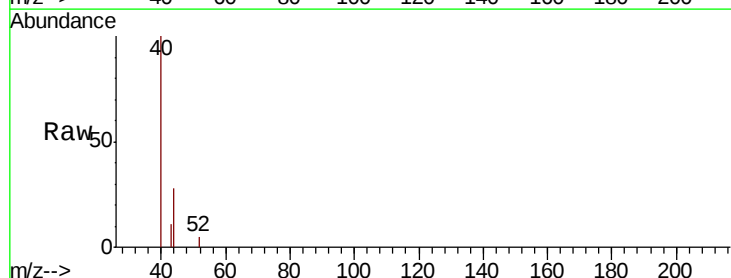
Tgt Ion: 43 Resp: 712

Ion Ratio Lower Upper

43 100

61 0.0 10.9 16.3#

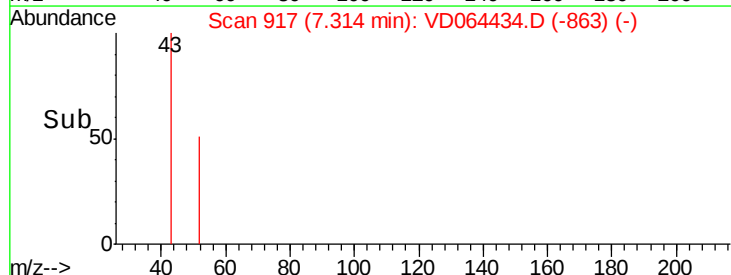
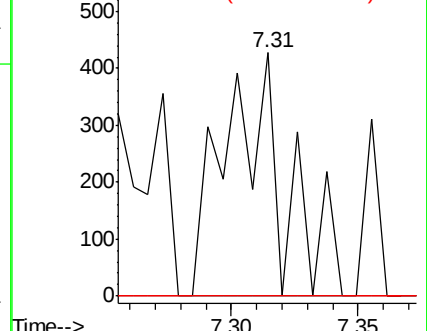
70 0.0 8.3 12.5#

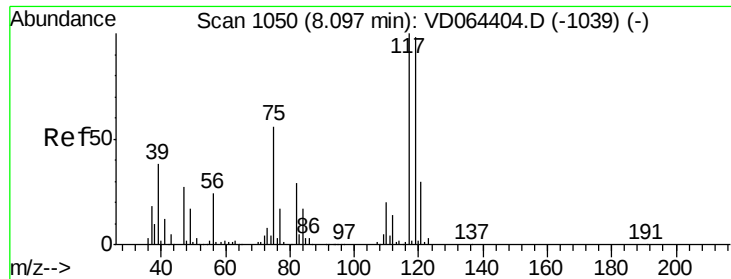


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.723 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

Instrument :

MSVOA_D

ClientSampleId :

P001-WC007

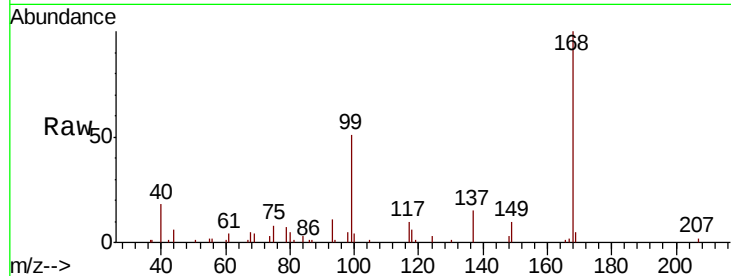
Tot Ion:117 Resp: 4747

Ion Ratio Lower Upper

117 100

119 12.0 78.8 118.2#

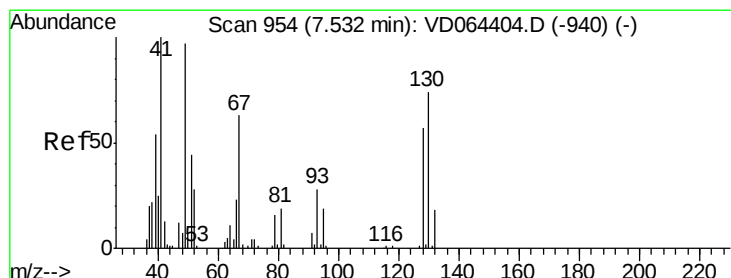
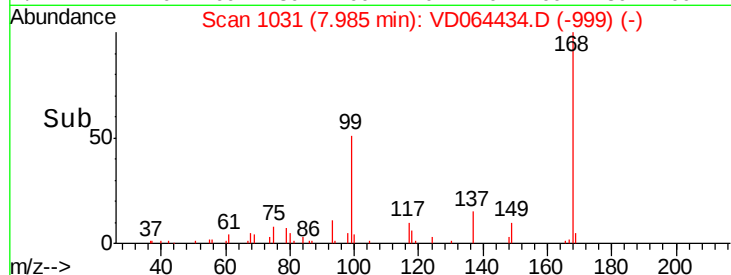
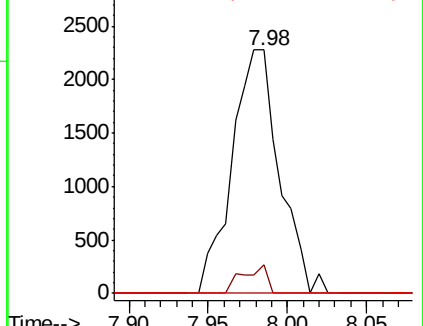
121 0.0 24.2 36.2#



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



#41

Methacrylonitrile

Concen: 1.841 ug/l

RT: 7.54 min Scan# 956

Delta R.T. 0.01 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

Tgt Ion: 41 Resp: 352

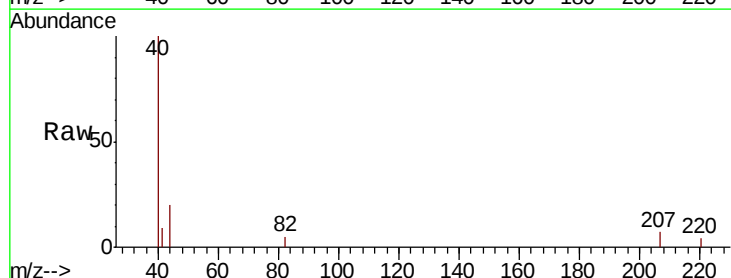
Ion Ratio Lower Upper

41 100

39 31.8 44.6 67.0#

67 0.0 50.9 76.3#

52 0.0 22.5 33.7#

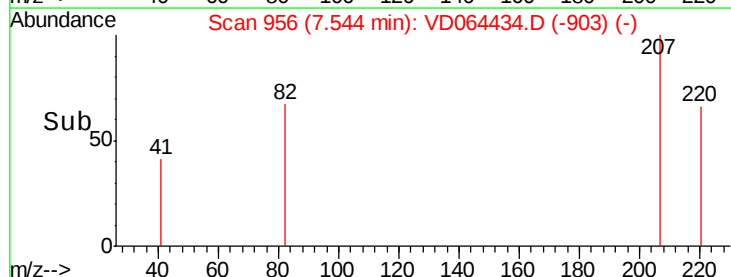
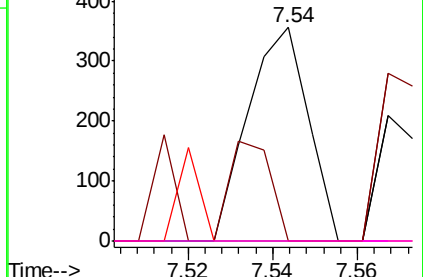


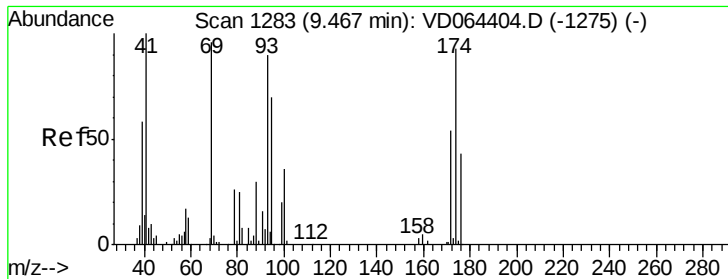
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#49

1,4-Dioxane

Concen: 102.796 ug/l

RT: 9.47 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

Instrument :

MSVOA_D

ClientSampleId :

P001-WC007

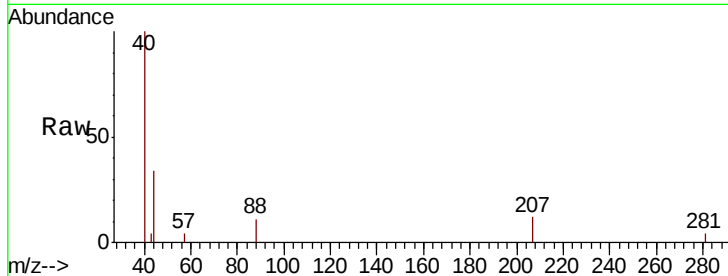
Tot Ion: 88 Resp: 374

Ion Ratio Lower Upper

88 100

43 43.6 26.7 40.1#

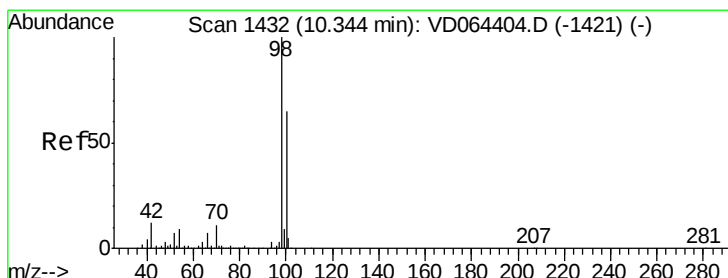
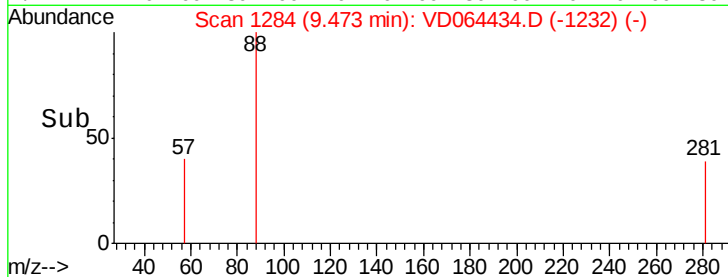
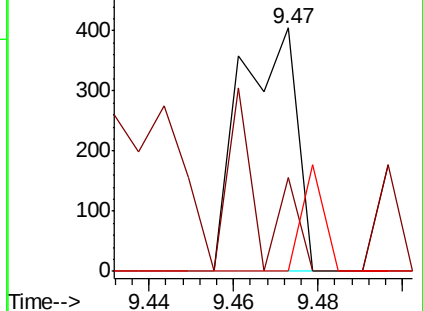
58 16.8 52.3 78.5#



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: 50.820 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064434.D

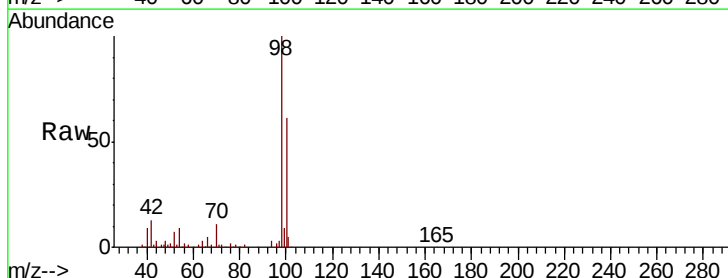
Acq: 05 Dec 2019 14:10

Tgt Ion: 98 Resp: 100214

Ion Ratio Lower Upper

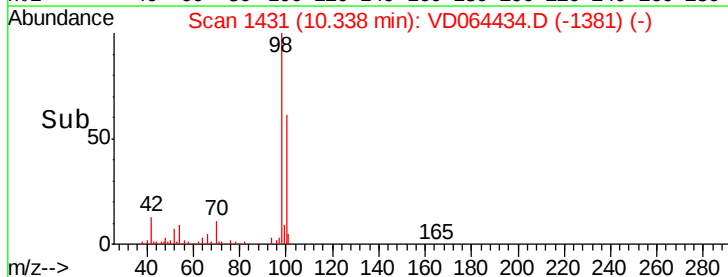
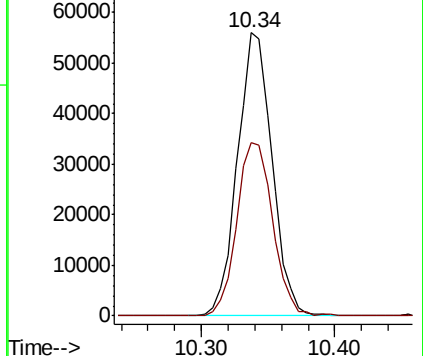
98 100

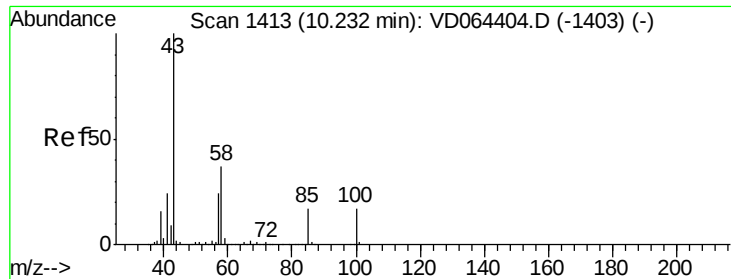
100 63.5 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.378 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

Instrument :

MSVOA_D

ClientSampleId :

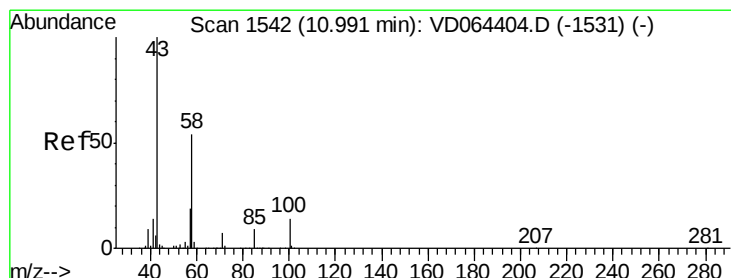
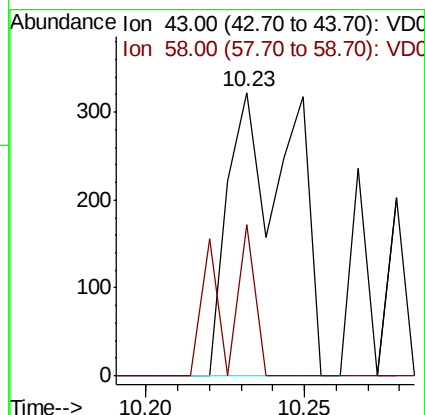
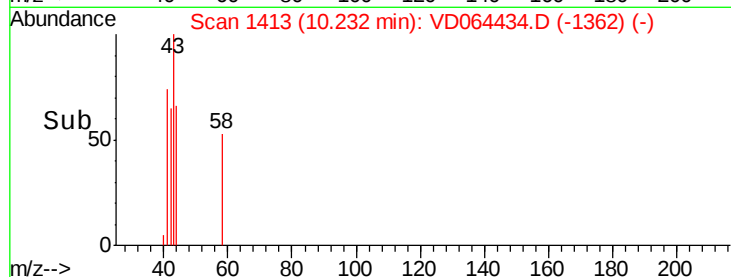
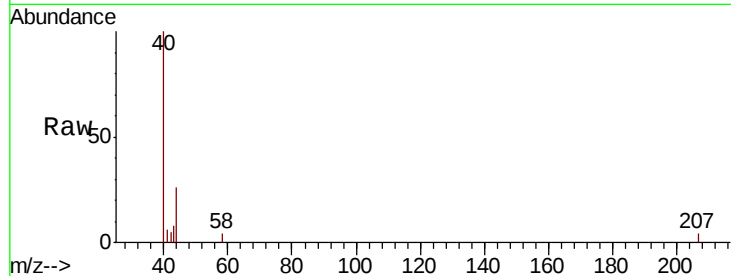
P001-WC007

Tot Ion: 43 Resp: 447

Ion Ratio Lower Upper

43 100

58 26.0 30.6 46.0#



#59

2-Hexanone

Concen: 2.554 ug/l

RT: 10.99 min Scan# 1542

Delta R.T. -0.00 min

Lab File: VD064434.D

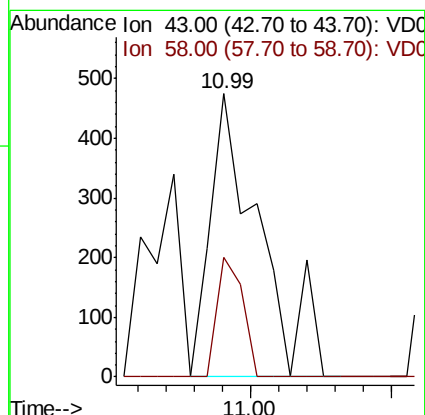
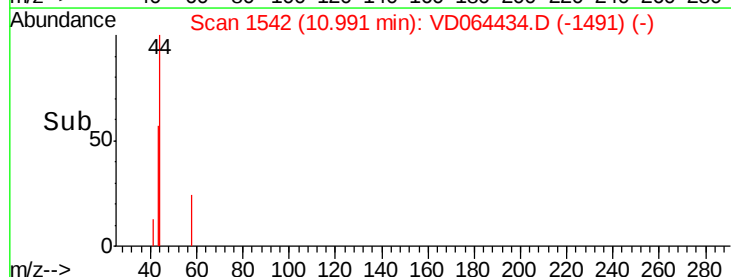
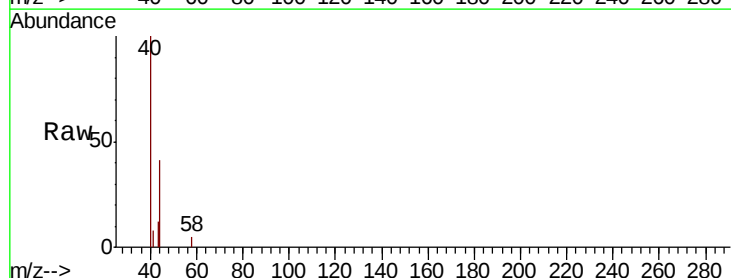
Acq: 05 Dec 2019 14:10

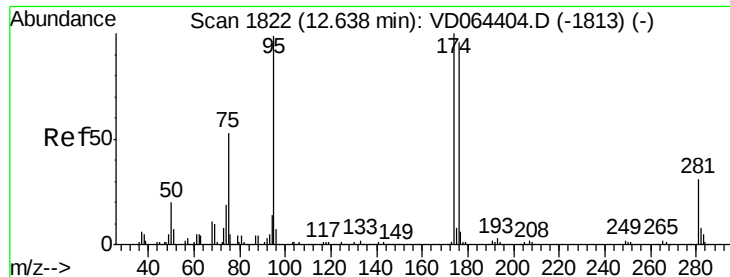
Tgt Ion: 43 Resp: 575

Ion Ratio Lower Upper

43 100

58 21.9 26.3 78.8#

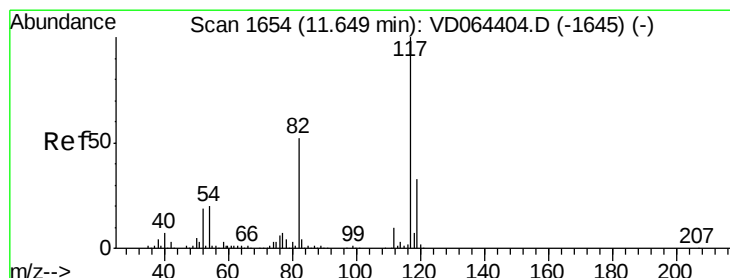
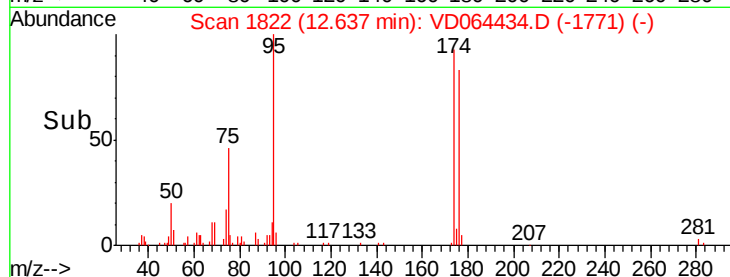
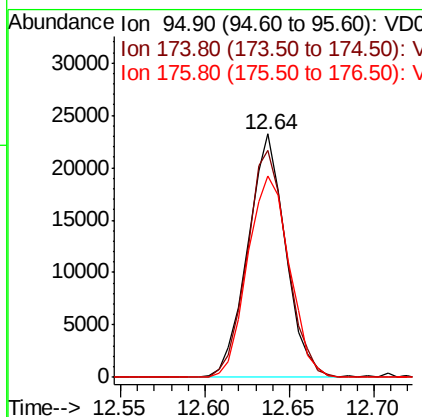
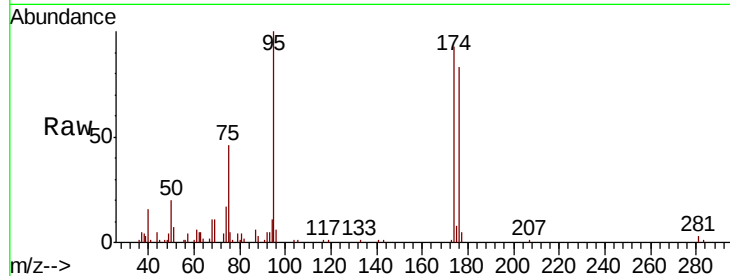




#62
4-Bromofluorobenzene
Concen: 57.228 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD064434.D
Acq: 05 Dec 2019 14:10

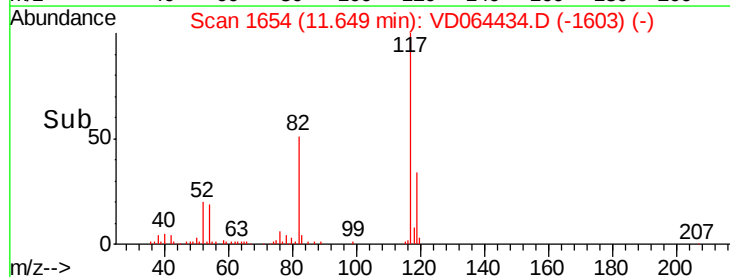
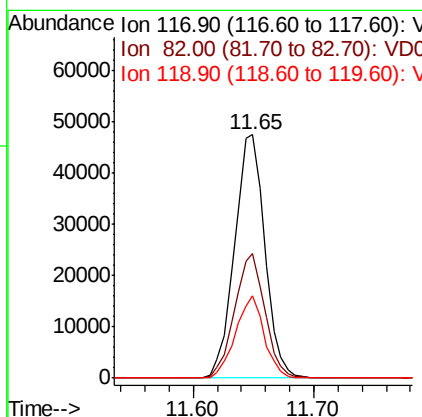
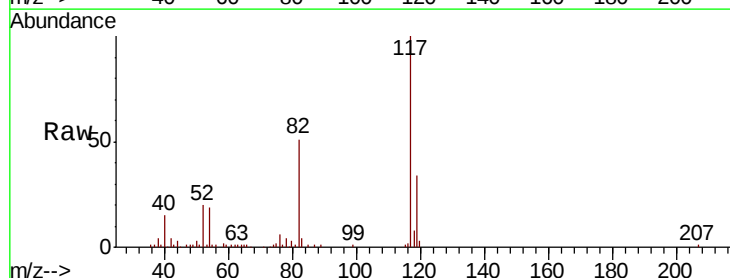
Instrument :
MSVOA_D
ClientSampleId :
P001-WC007

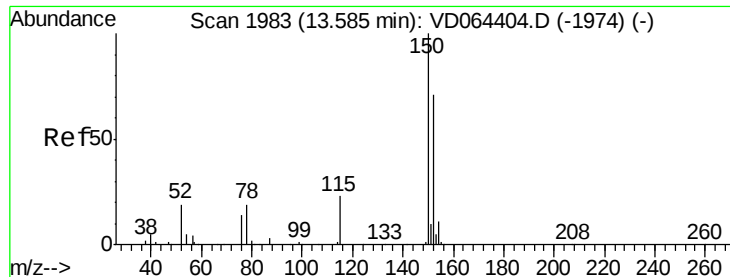
Tot Ion: 95 Resp: 36267
Ion Ratio Lower Upper
95 100
174 98.2 0.0 197.2
176 91.1 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064434.D
Acq: 05 Dec 2019 14:10

Tgt Ion: 117 Resp: 83278
Ion Ratio Lower Upper
117 100
82 50.9 41.4 62.2
119 33.7 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

Instrument :

MSVOA_D

ClientSampleId :

P001-WC007

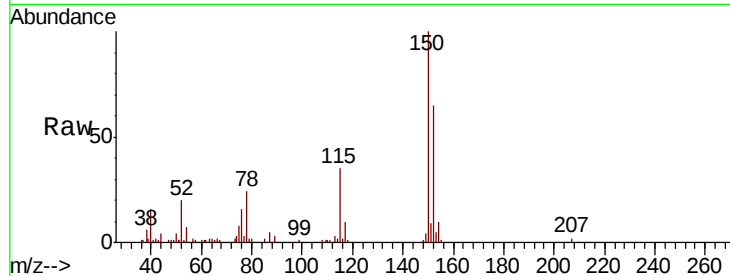
Tot Ion:152 Resp: 42627

Ion Ratio Lower Upper

152 100

115 53.0 26.7 80.1

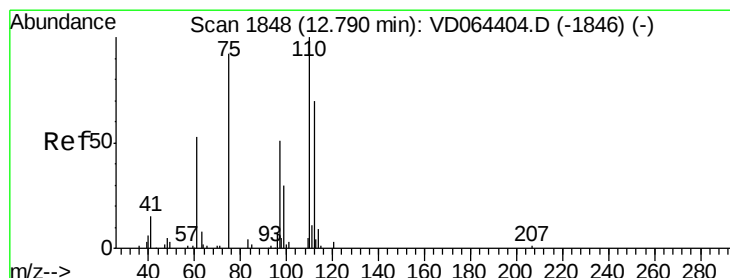
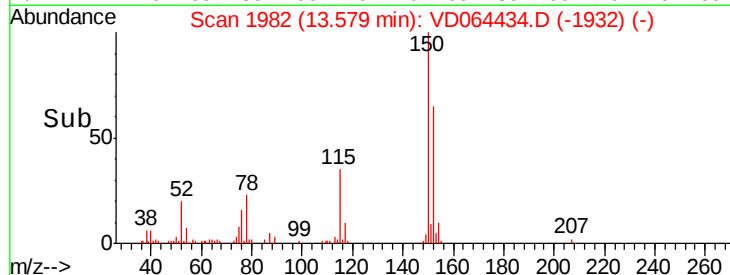
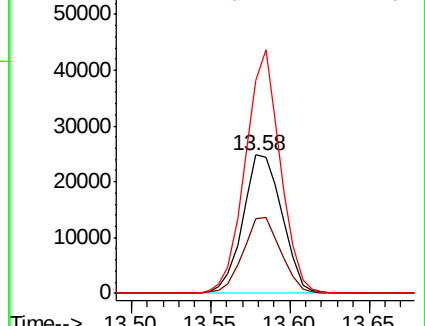
150 157.0 0.0 347.2



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: 54.857 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064434.D

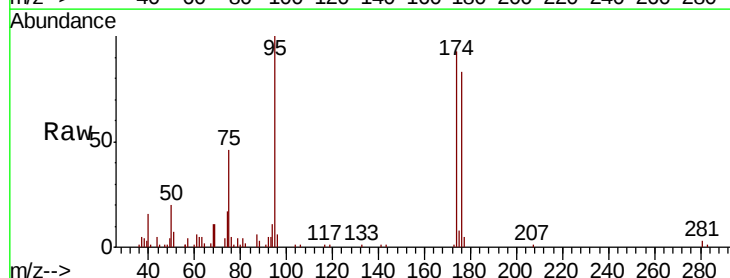
Acq: 05 Dec 2019 14:10

Tgt Ion: 75 Resp: 19230

Ion Ratio Lower Upper

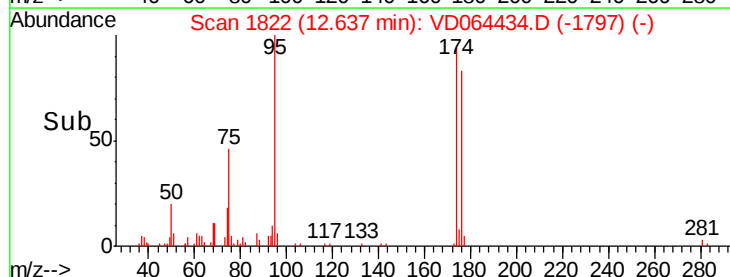
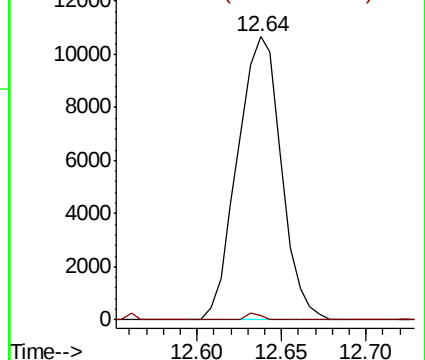
75 100

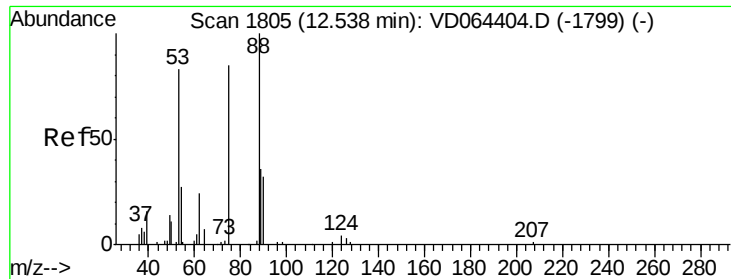
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 119.616 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

Instrument :

MSVOA_D

ClientSampleId :

P001-WC007

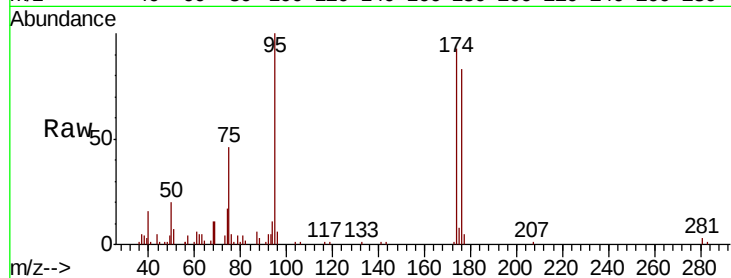
Tot Ion: 75 Resp: 19230

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

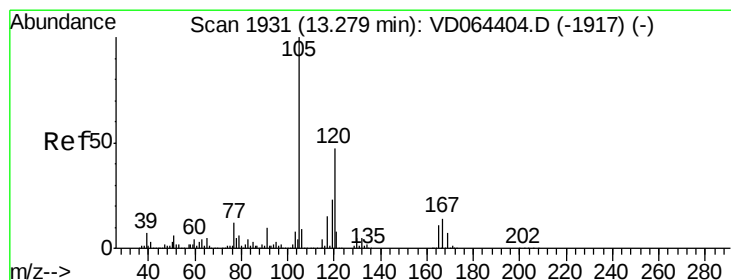
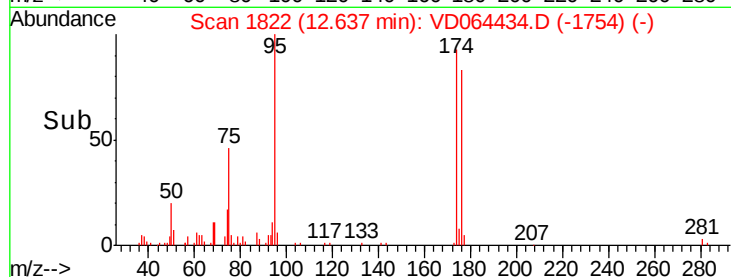
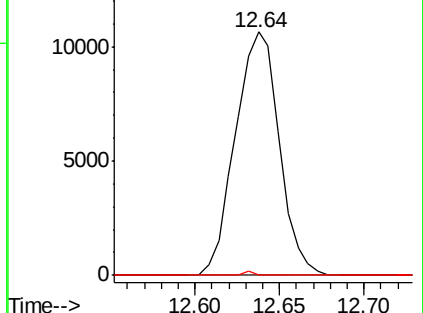
89 0.3 38.5 57.7#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.788 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD064434.D

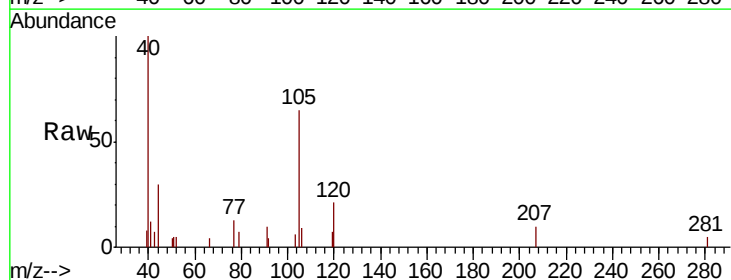
Acq: 05 Dec 2019 14:10

Tgt Ion: 105 Resp: 4505

Ion Ratio Lower Upper

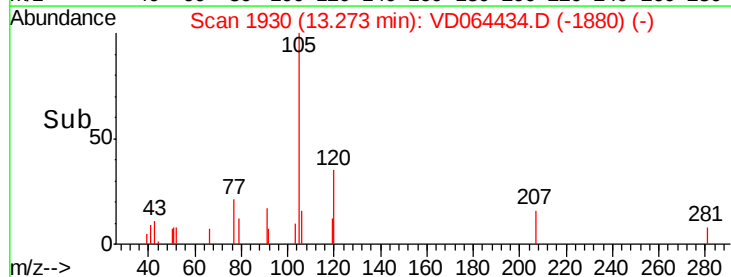
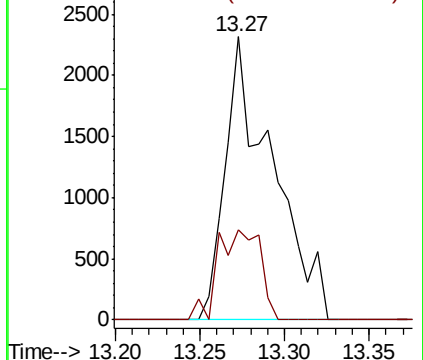
105 100

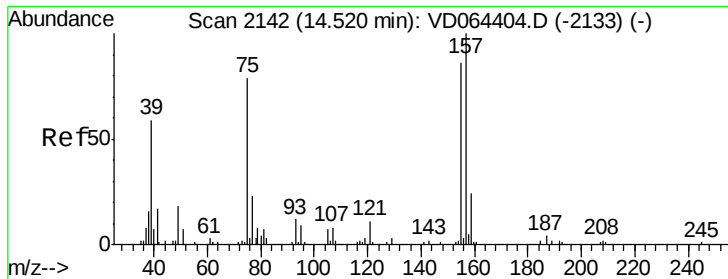
120 28.9 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.51 min Scan# 2141

Delta R.T. -0.01 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

Instrument :

MSVOA_D

ClientSampleId :

P001-WC007

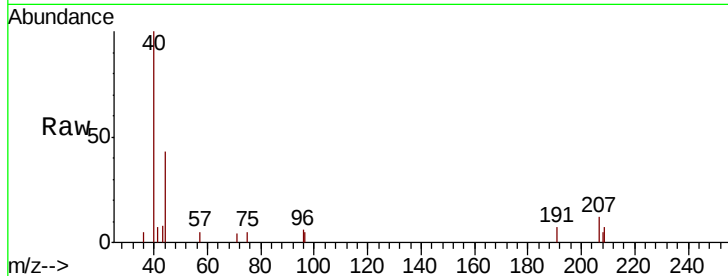
Tot Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

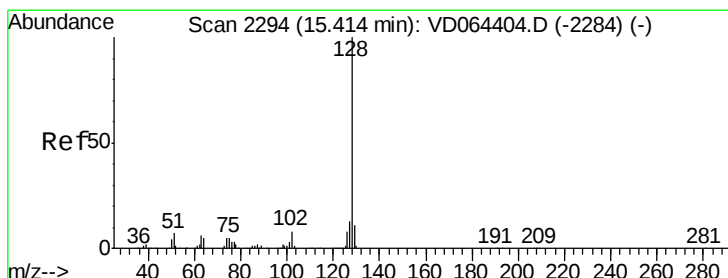
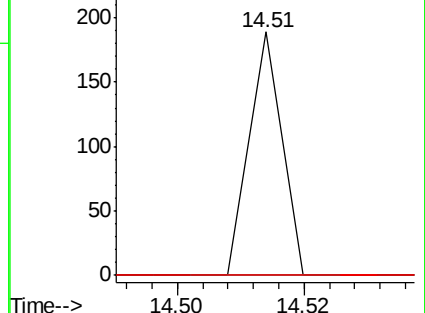
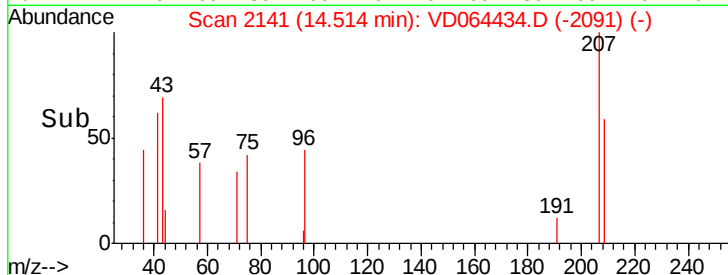
157 0.0 63.2 189.8#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 2.419 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD064434.D

Acq: 05 Dec 2019 14:10

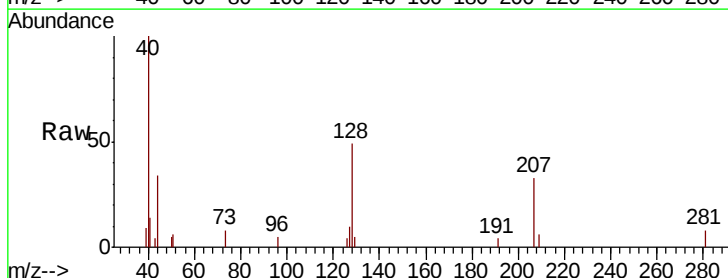
Tgt Ion: 128 Resp: 3796

Ion Ratio Lower Upper

128 100

127 11.9 10.5 15.7

129 7.6 8.8 13.2#



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

