

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121619\
 Data File : VD064533.D
 Acq On : 16 Dec 2019 19:53
 Operator : VA/SY
 Sample : K6177-10
 Misc : 6.73G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-8

Quant Time: Dec 17 01:57:29 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	404211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	643479	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	630772	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	320584	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	177467	48.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.02%	
35) Dibromofluoromethane	7.92	113	195118	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
50) Toluene-d8	10.34	98	780686	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
62) 4-Bromofluorobenzene	12.64	95	275870	56.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.42%	

Target Compounds

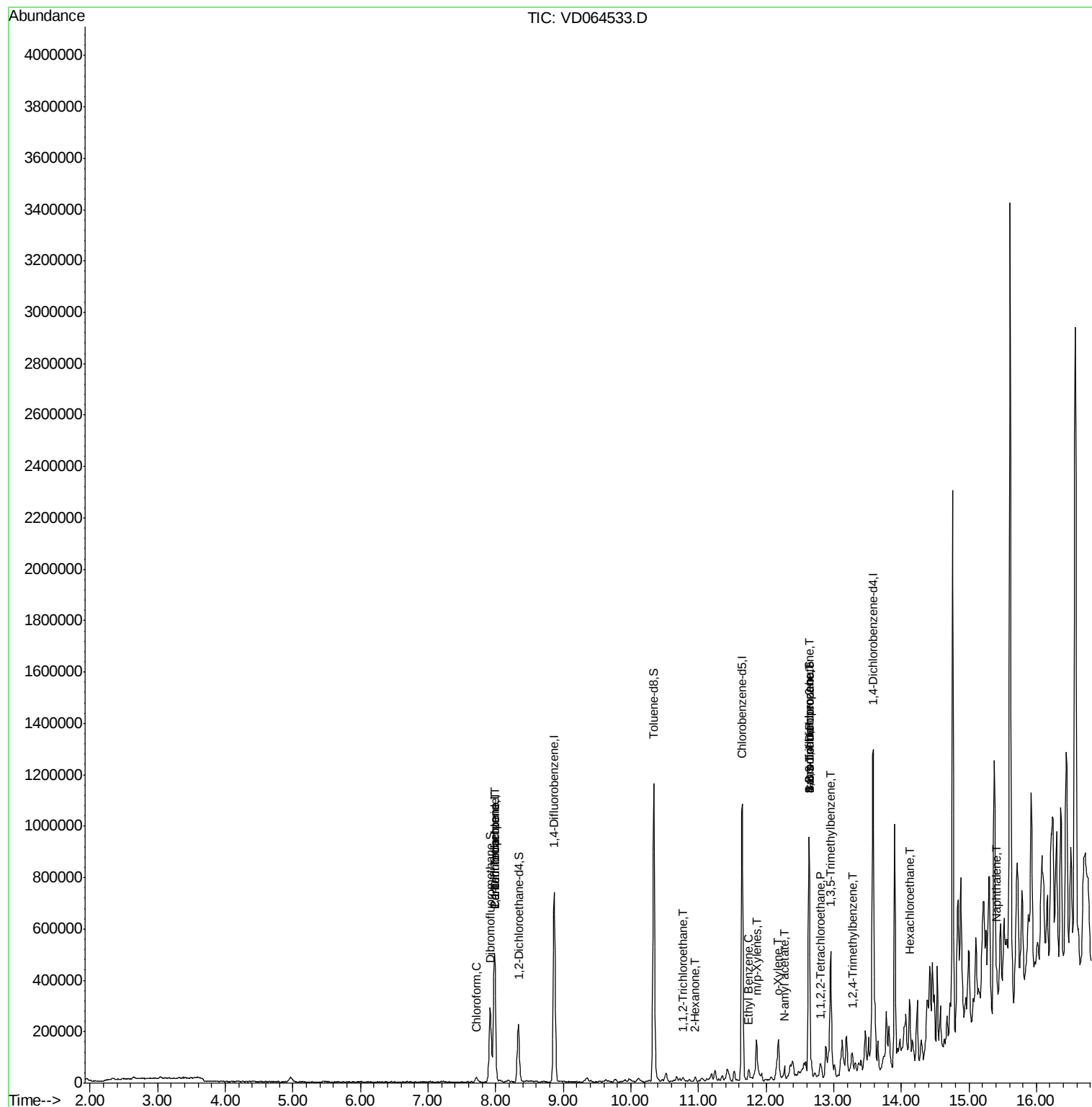
					Qvalue
20) Methylene Chloride	4.97	84	13440	Below Cal	86
30) Chloroform	7.71	83	17304	2.475 ug/l	99
31) Cyclohexane	7.98	56	9549	Below Cal	# 5
36) 1,1-Dichloropropene	7.98	75	28189	4.631 ug/l	# 48
38) Carbon Tetrachloride	7.98	117	36242	5.642 ug/l	# 14
55) 1,1,2-Trichloroethane	10.78	97	5763	1.845 ug/l	# 22
59) 2-Hexanone	10.96	43	8138	4.668 ug/l	# 27
67) Ethyl Benzene	11.74	91	25874	1.105 ug/l	94
68) m/p-Xylenes	11.86	106	15550	1.742 ug/l	94
69) o-Xylene	12.18	106	40842	4.955 ug/l	99
71) Bromoform	12.64	173	3291	1.129 ug/l	# 1
74) N-amyl acetate	12.27	43	11802	2.255 ug/l	# 63
75) 1,1,2,2-Tetrachloroethane	12.80	83	5566	1.460 ug/l	# 27
76) 1,2,3-Trichloropropane	12.64	75	142262	53.961 ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.96	105	76481	4.059 ug/l	96
81) trans-1,4-Dichloro-2-buten	12.64	75	142262	117.663 ug/l	# 9
84) 1,2,4-Trimethylbenzene	13.27	105	42723	2.255 ug/l	100
90) Hexachloroethane	14.13	117	9120	2.297 ug/l	# 5
92) 1,2-Dibromo-3-Chloropropan	14.53	75	769	Below Cal	# 33
95) Naphthalene	15.41	128	57205	4.846 ug/l	# 89

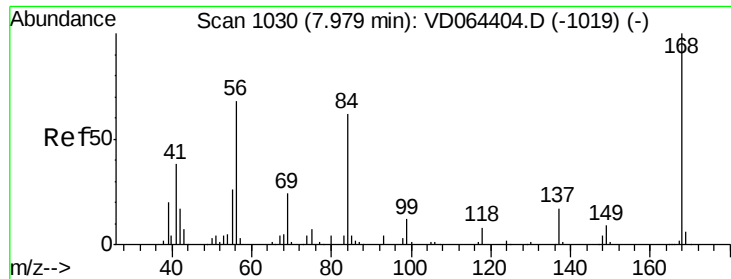
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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EP-8

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064533.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_D

ClientSampleId :

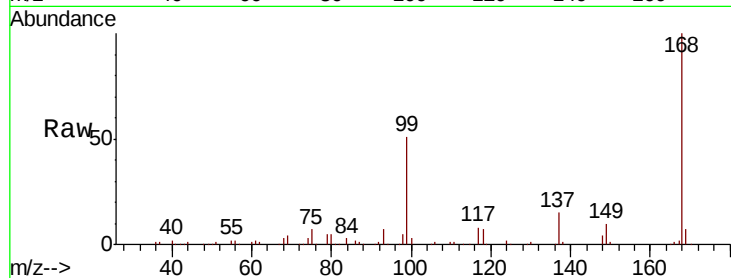
EP-8

Tgt Ion:168 Resp: 404211

Ion Ratio Lower Upper

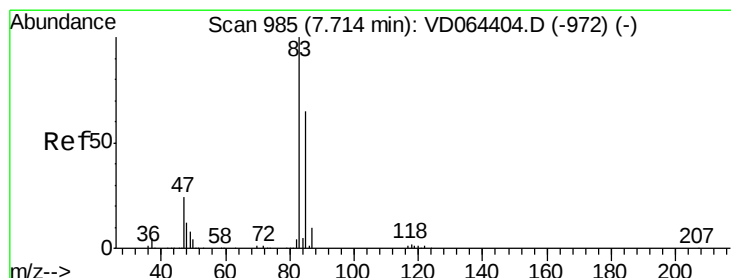
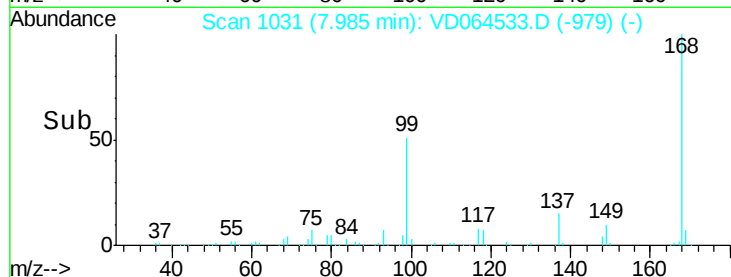
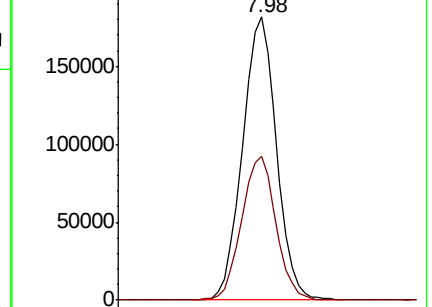
168 100

99 50.6 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#30

Chloroform

Concen: 2.475 ug/l

RT: 7.71 min Scan# 984

Delta R.T. -0.01 min

Lab File: VD064533.D

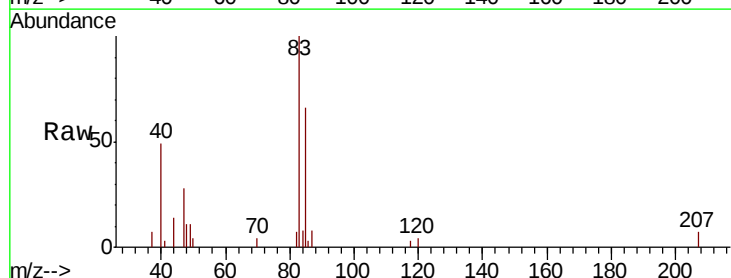
Acq: 16 Dec 2019 19:53

Tgt Ion: 83 Resp: 17304

Ion Ratio Lower Upper

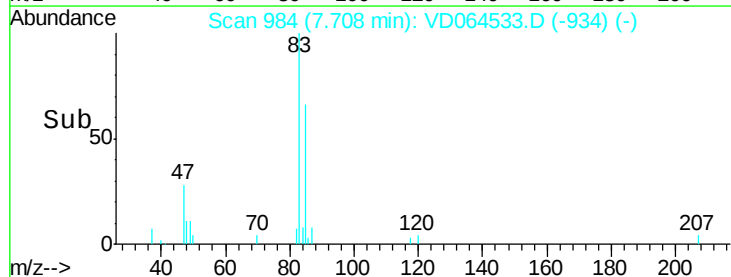
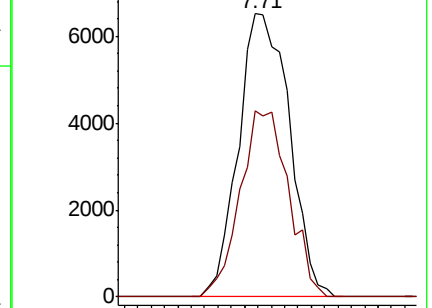
83 100

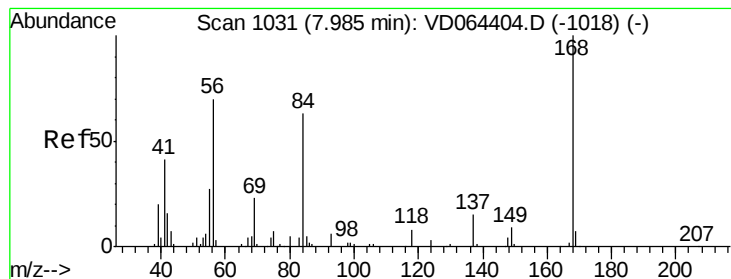
85 65.9 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC





#31

Cyclohexane

Concen: Below Cal

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064533.D

Acq: 16 Dec 2019 19:53

Instrument :
MSVOA_D
ClientSampleId :
EP-8

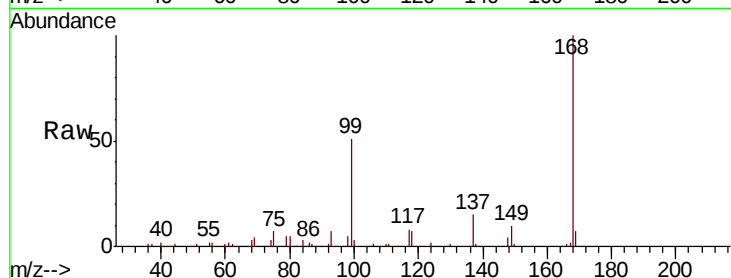
Tgt Ion: 56 Resp: 9549

Ion Ratio Lower Upper

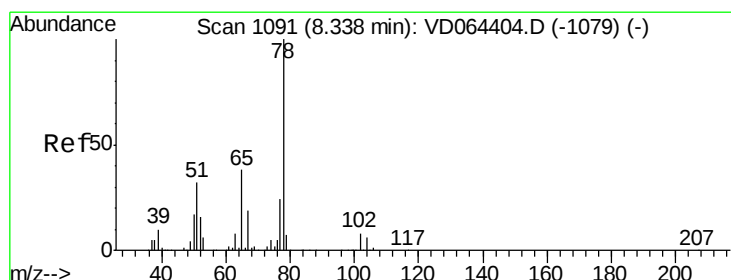
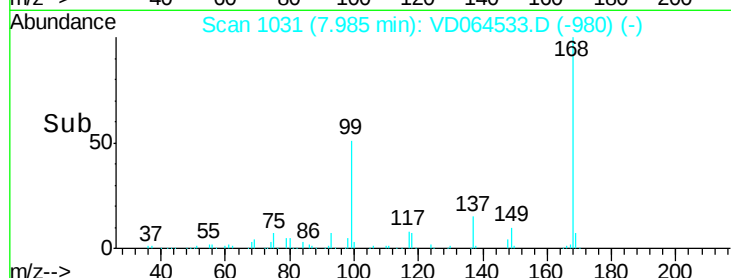
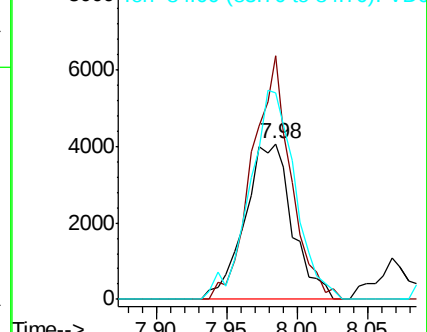
56 100

69 156.6 26.2 39.4#

84 132.5 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: 48.505 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD064533.D

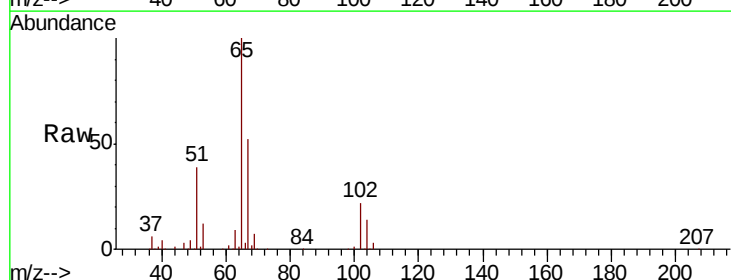
Acq: 16 Dec 2019 19:53

Tgt Ion: 65 Resp: 177467

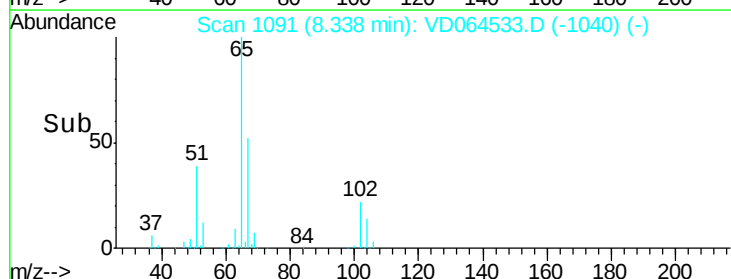
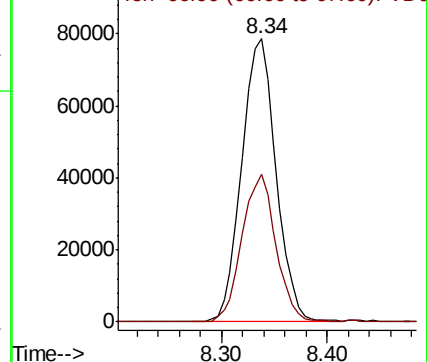
Ion Ratio Lower Upper

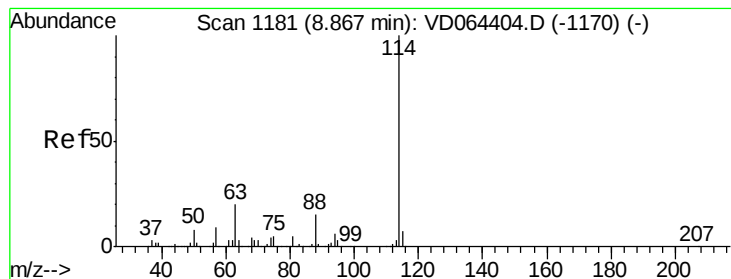
65 100

67 51.4 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: VD064533.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_D

ClientSampleId :

EP-8

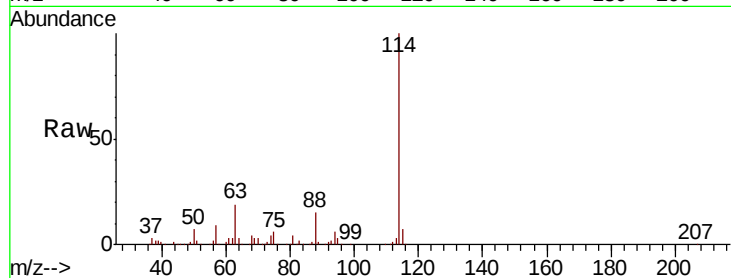
Tgt Ion:114 Resp: 643479

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

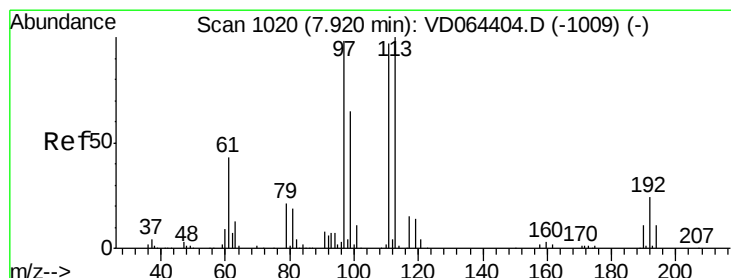
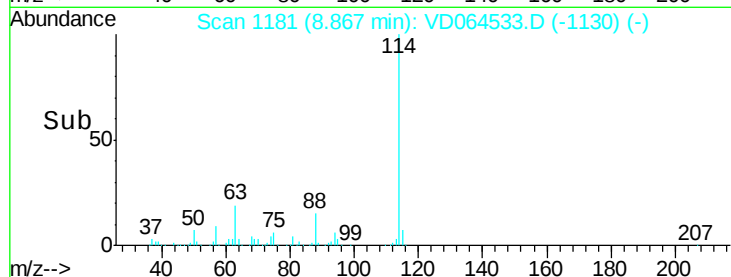
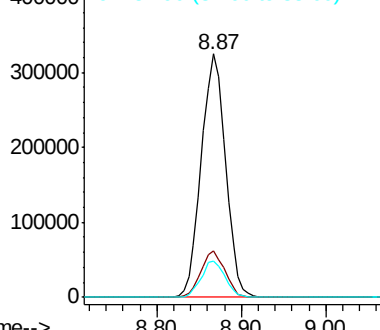
88 14.7 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 48.127 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD064533.D

Acq: 16 Dec 2019 19:53

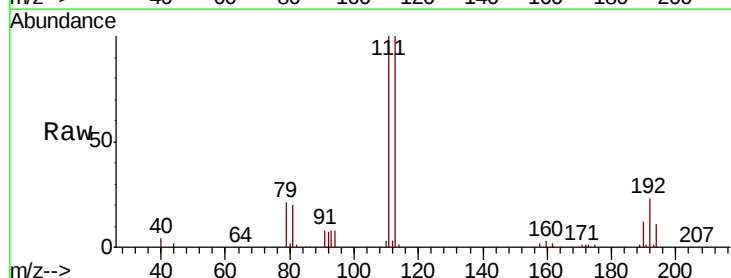
Tgt Ion:113 Resp: 195118

Ion Ratio Lower Upper

113 100

111 101.3 79.4 119.2

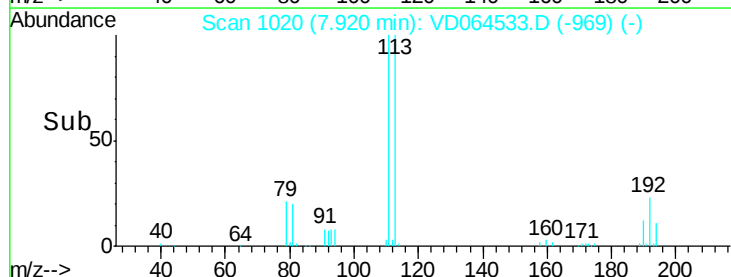
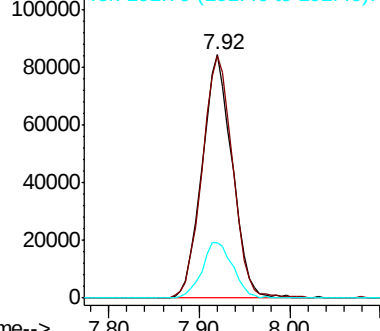
192 23.6 18.6 28.0

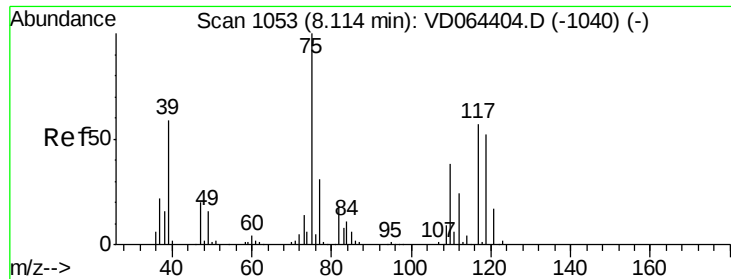


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

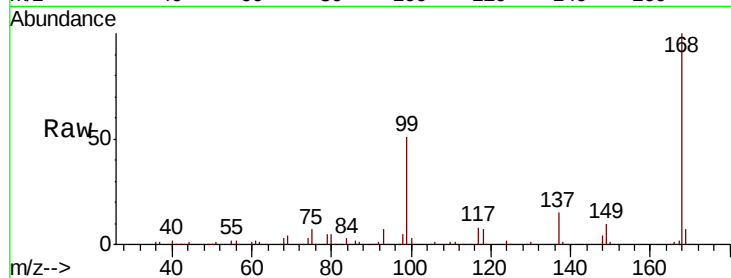




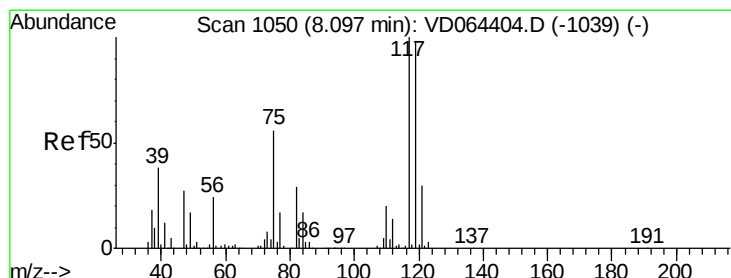
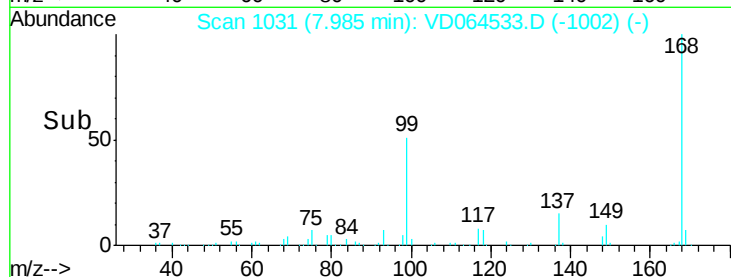
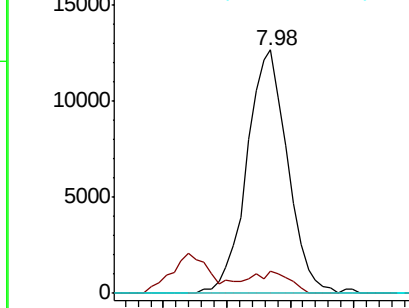
#36
 1,1-Dichloropropene
 Concen: 4.631 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064533.D
 Acq: 16 Dec 2019 19:53

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-8

Tgt Ion: 75 Resp: 28189
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.6 55.8#
 77 0.0 25.0 37.4#

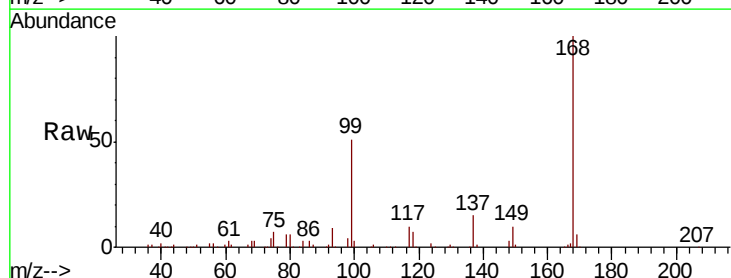


Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

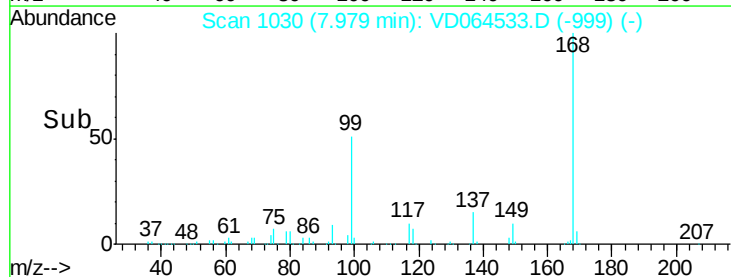
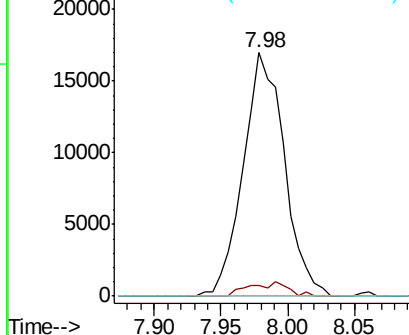


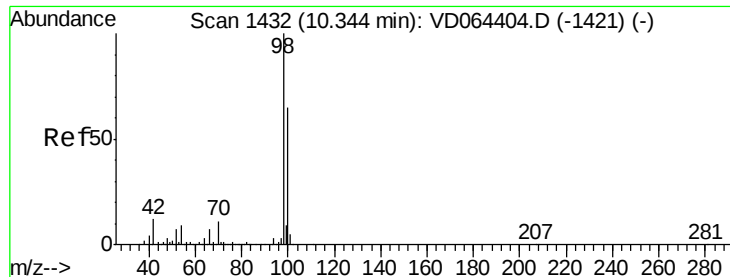
#38
 Carbon Tetrachloride
 Concen: 5.642 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD064533.D
 Acq: 16 Dec 2019 19:53

Tgt Ion: 117 Resp: 36242
 Ion Ratio Lower Upper
 117 100
 119 4.4 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

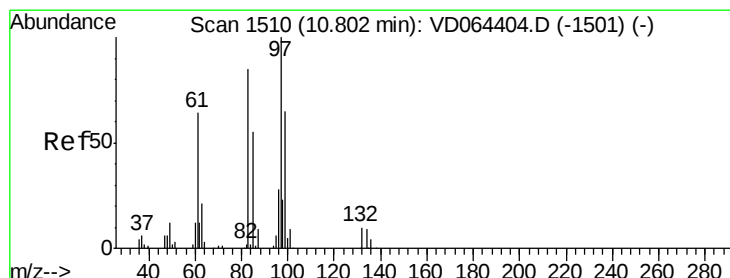
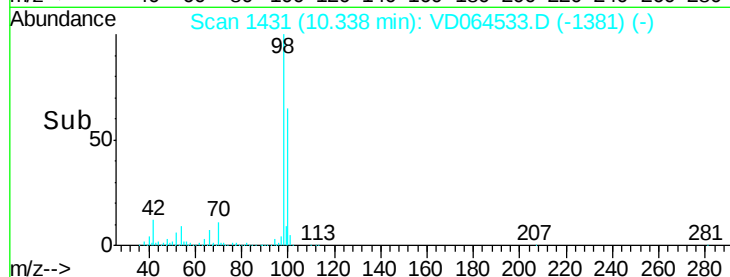
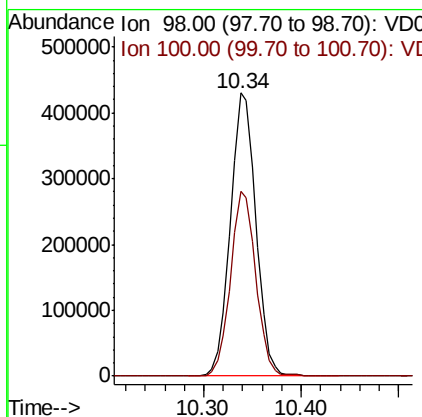
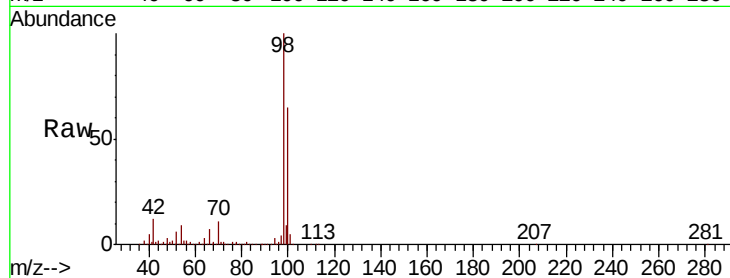




#50
Toluene-d8
Concen: 51.119 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064533.D
Acq: 16 Dec 2019 19:53

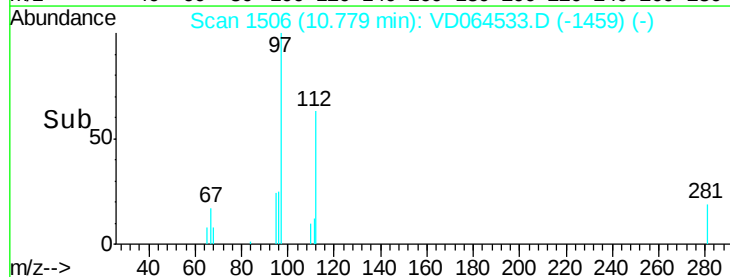
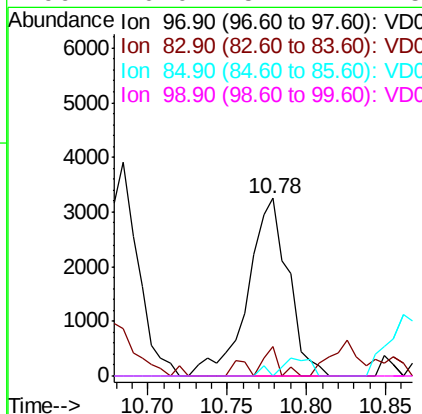
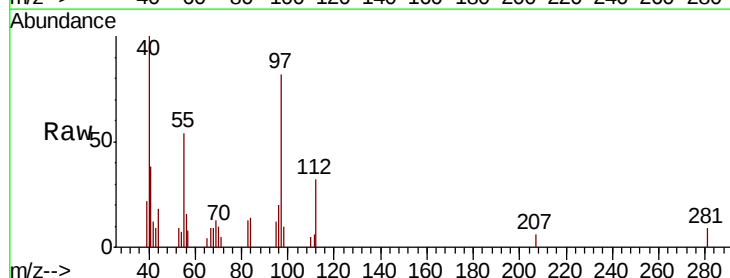
Instrument :
MSVOA_D
ClientSampleId :
EP-8

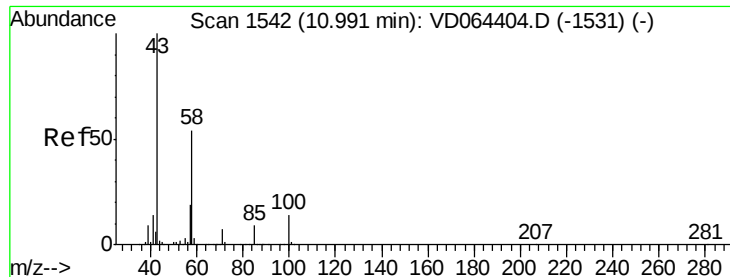
Tgt Ion: 98 Resp: 780686
Ion Ratio Lower Upper
98 100
100 64.8 52.6 79.0



#55
1,1,2-Trichloroethane
Concen: 1.845 ug/l
RT: 10.78 min Scan# 1506
Delta R.T. -0.02 min
Lab File: VD064533.D
Acq: 16 Dec 2019 19:53

Tgt Ion: 97 Resp: 5763
Ion Ratio Lower Upper
97 100
83 16.3 67.8 101.8#
85 0.0 43.7 65.5#
99 0.0 51.7 77.5#

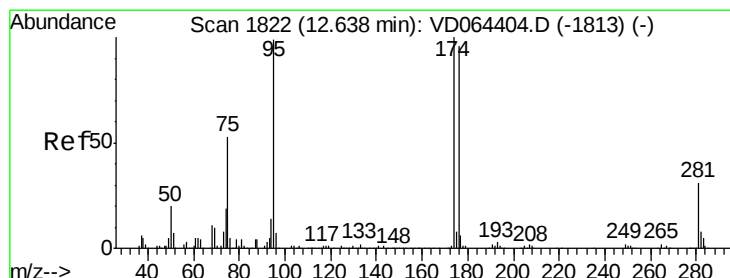
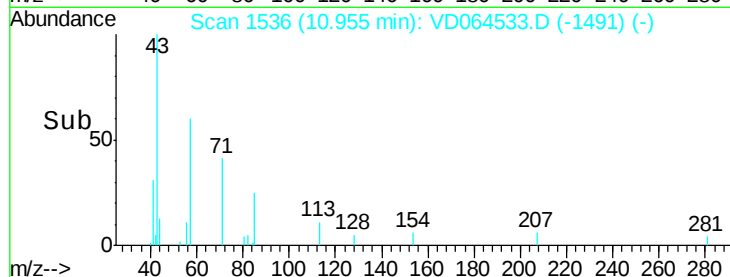
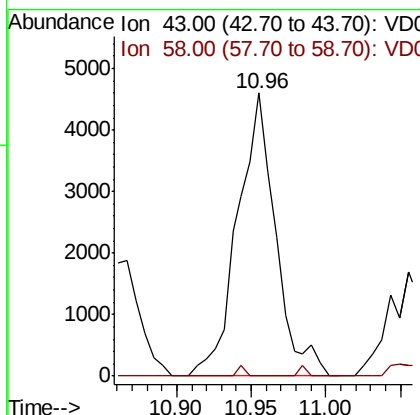
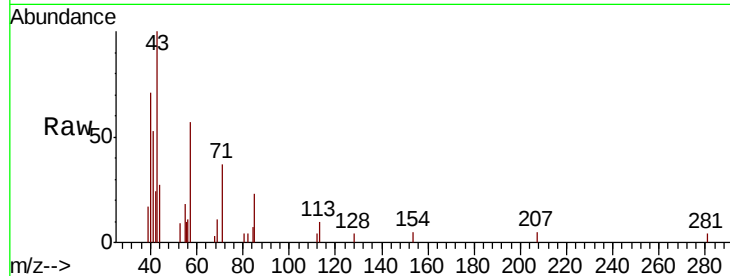




#59
2-Hexanone
Concen: 4.668 ug/l
RT: 10.96 min Scan# 1536
Delta R.T. -0.04 min
Lab File: VD064533.D
Acq: 16 Dec 2019 19:53

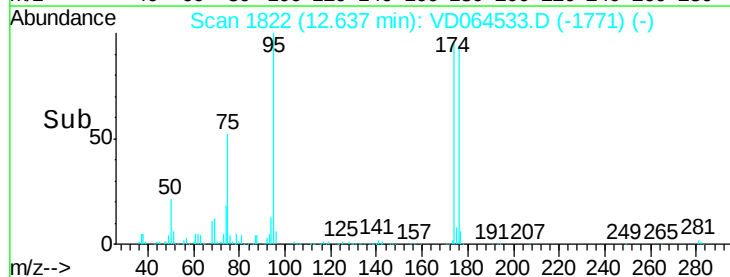
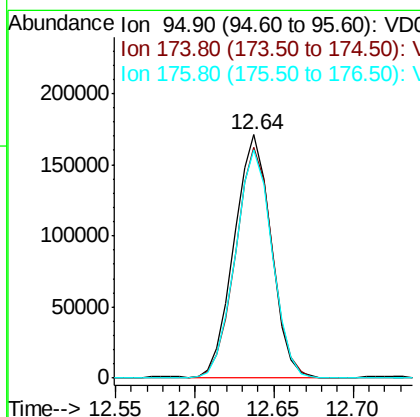
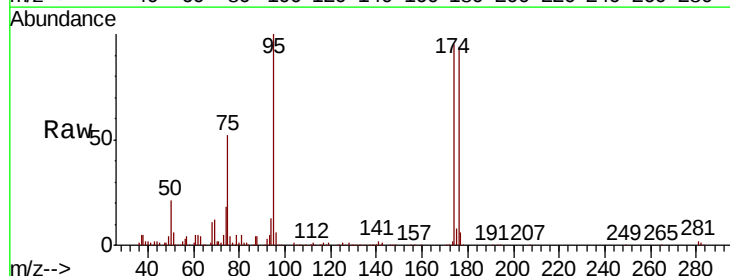
Instrument :
MSVOA_D
ClientSampleId :
EP-8

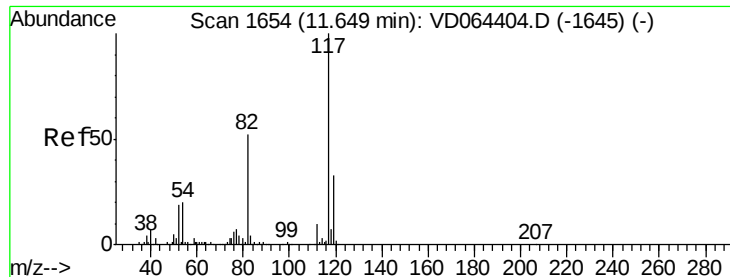
Tgt Ion: 43 Resp: 8138
Ion Ratio Lower Upper
43 100
58 0.8 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 56.209 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD064533.D
Acq: 16 Dec 2019 19:53

Tgt Ion: 95 Resp: 275870
Ion Ratio Lower Upper
95 100
174 94.3 0.0 197.2
176 93.9 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: VD064533.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_D

ClientSampleID :

EP-8

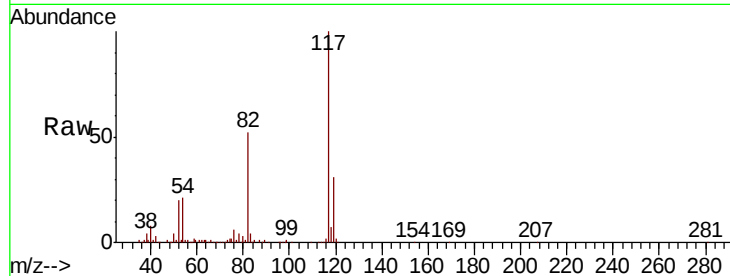
Tgt Ion:117 Resp: 630772

Ion Ratio Lower Upper

117 100

82 51.6 41.4 62.2

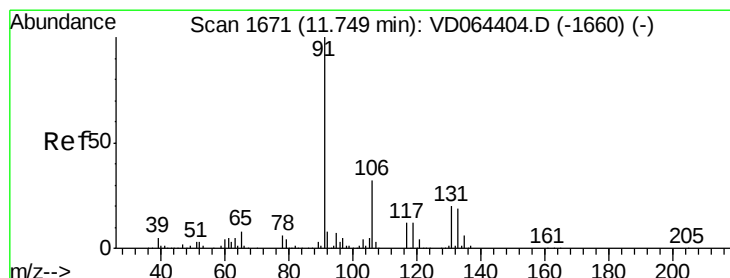
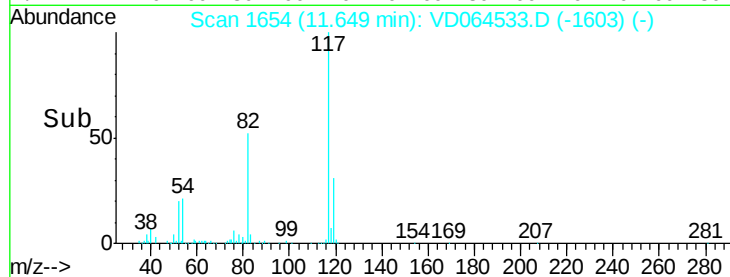
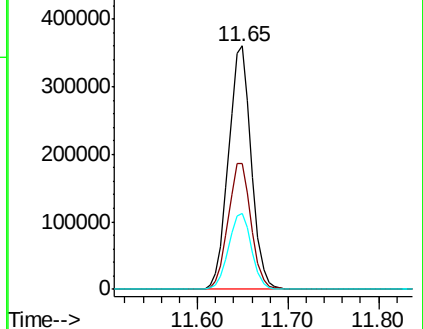
119 31.3 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VDC

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 1.105 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VD064533.D

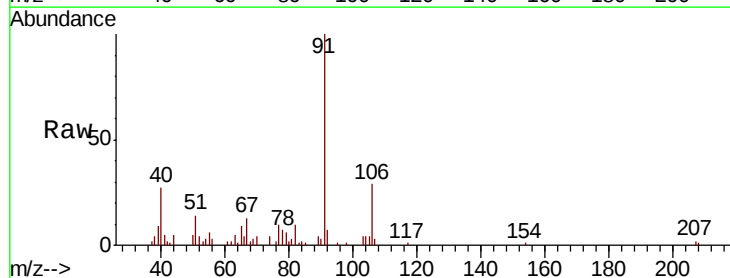
Acq: 16 Dec 2019 19:53

Tgt Ion: 91 Resp: 25874

Ion Ratio Lower Upper

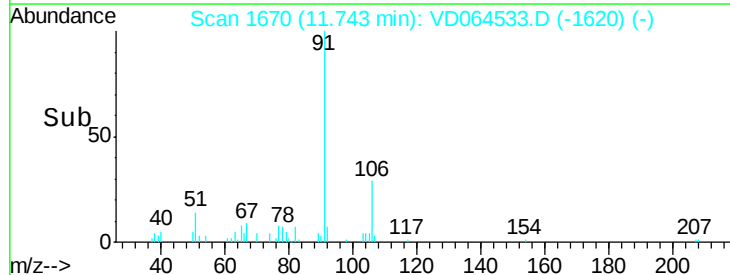
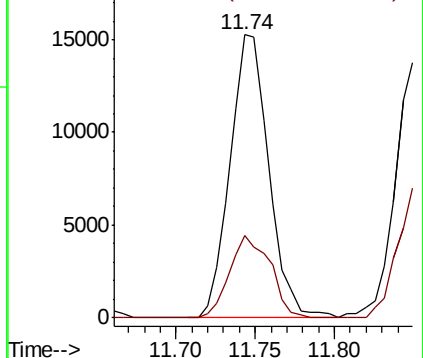
91 100

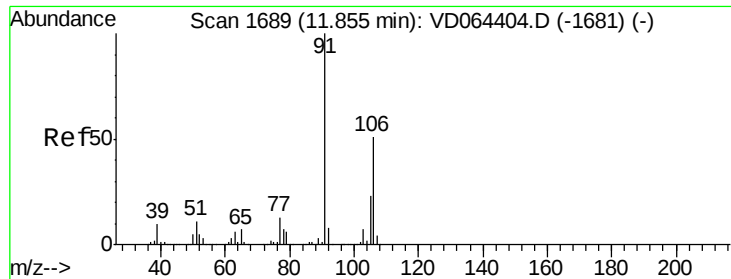
106 29.1 25.8 38.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.00 (105.70 to 106.70): V

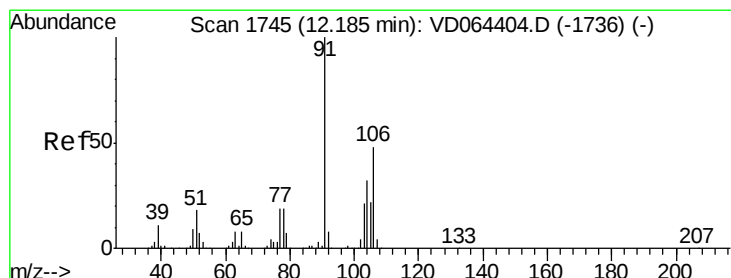
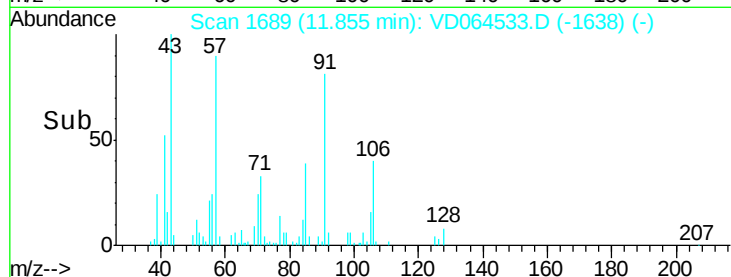
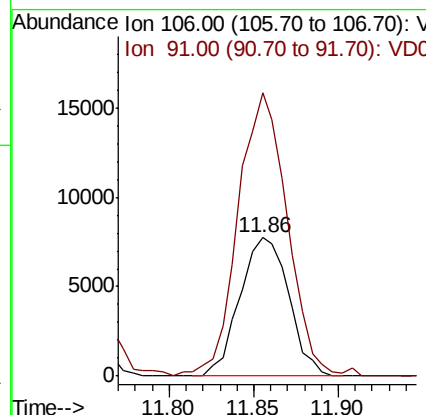
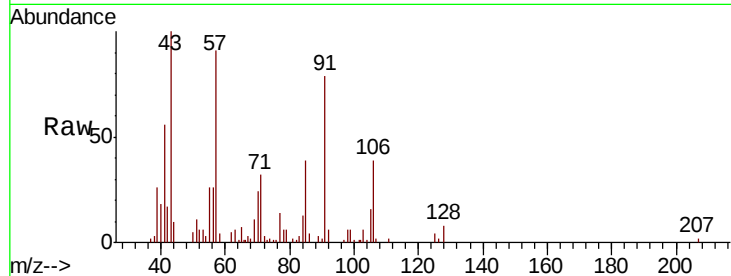




#68
m/p-Xylenes
Concen: 1.742 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD064533.D
Acq: 16 Dec 2019 19:53

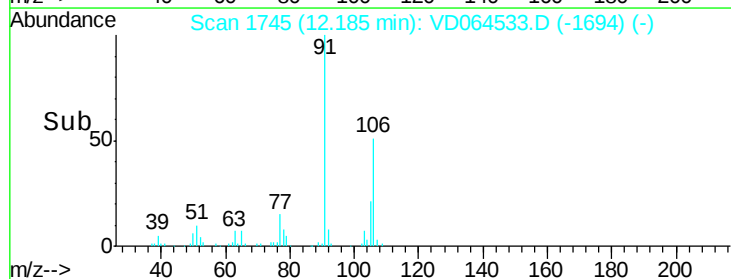
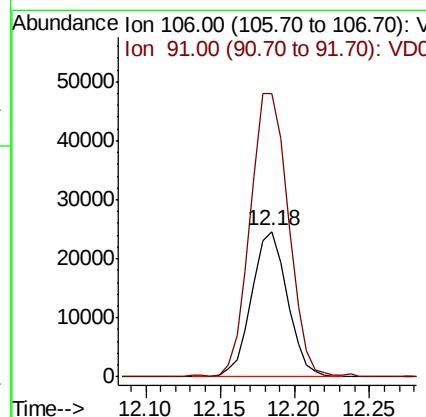
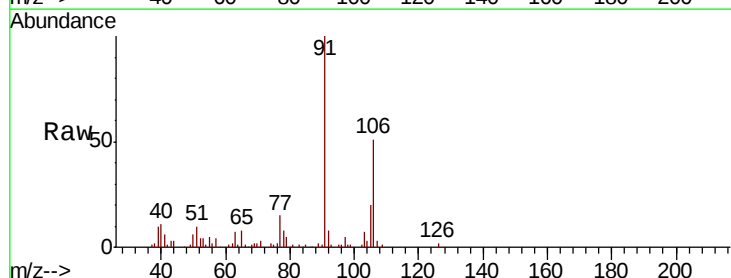
Instrument :
MSVOA_D
ClientSampleId :
EP-8

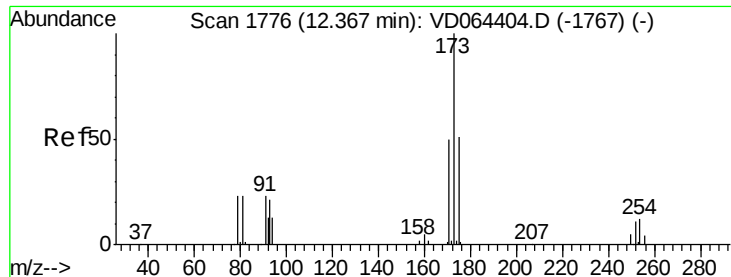
Tgt Ion:106 Resp: 15550
Ion Ratio Lower Upper
106 100
91 206.2 157.4 236.2



#69
o-Xylene
Concen: 4.955 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064533.D
Acq: 16 Dec 2019 19:53

Tgt Ion:106 Resp: 40842
Ion Ratio Lower Upper
106 100
91 209.1 103.8 311.4

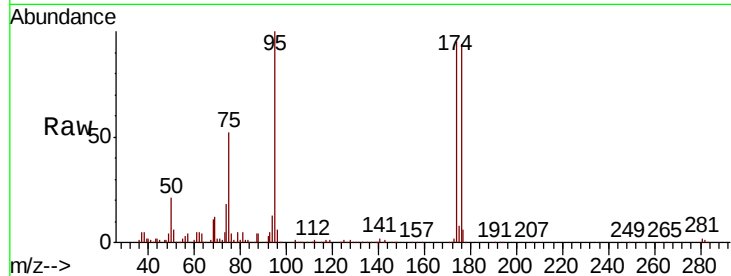




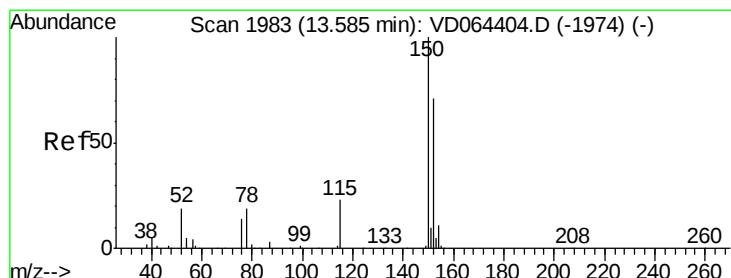
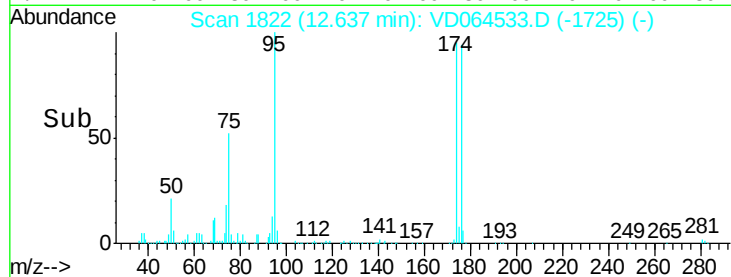
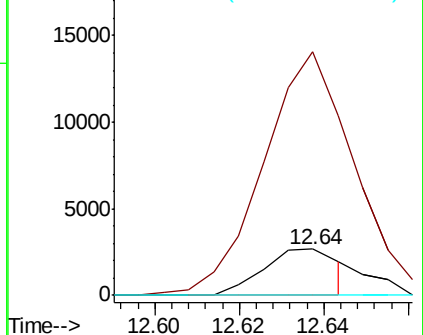
#71
Bromoform
Concen: 1.129 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.27 min
Lab File: VD064533.D
Acq: 16 Dec 2019 19:53

Instrument :
MSVOA_D
ClientSampleId :
EP-8

Tgt Ion:173 Resp: 3291
Ion Ratio Lower Upper
173 100
175 530.8 25.3 75.8#
254 0.0 0.0 0.0

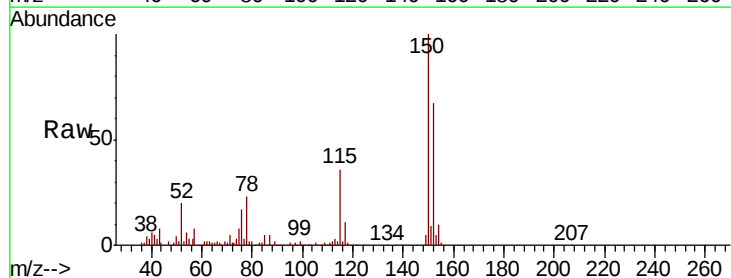


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

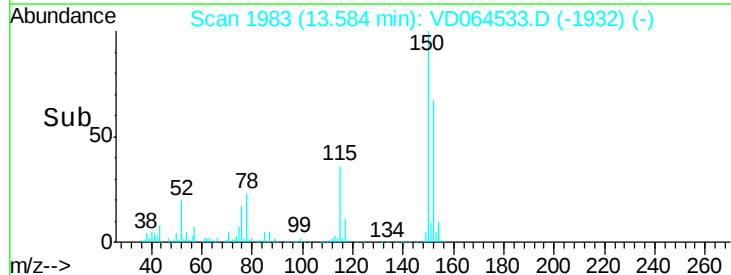
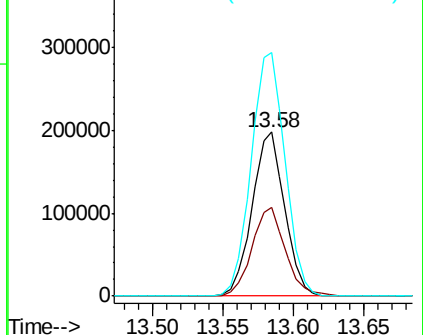


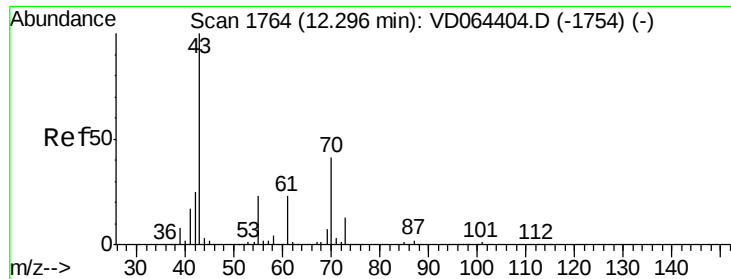
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD064533.D
Acq: 16 Dec 2019 19:53

Tgt Ion:152 Resp: 320584
Ion Ratio Lower Upper
152 100
115 55.7 26.7 80.1
150 155.0 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





#74

N-amyI acetate

Concen: 2.255 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD064533.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_D

ClientSampled :

EP-8

Tgt Ion: 43 Resp: 11802

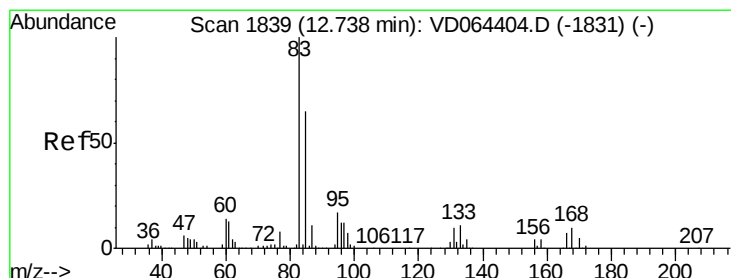
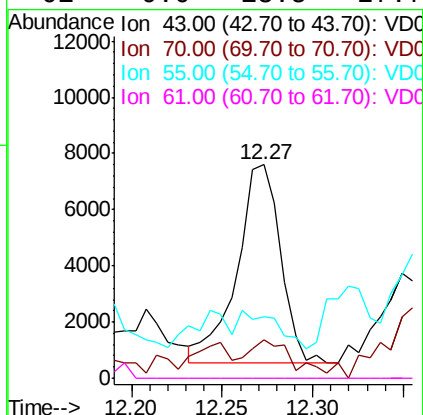
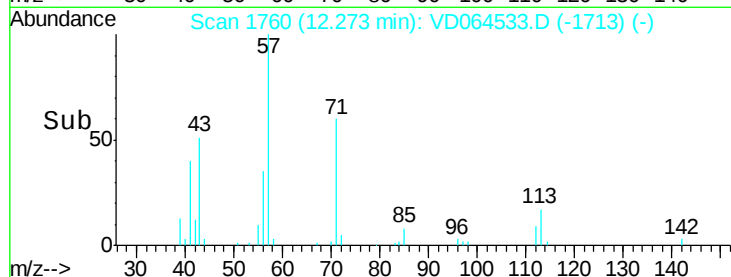
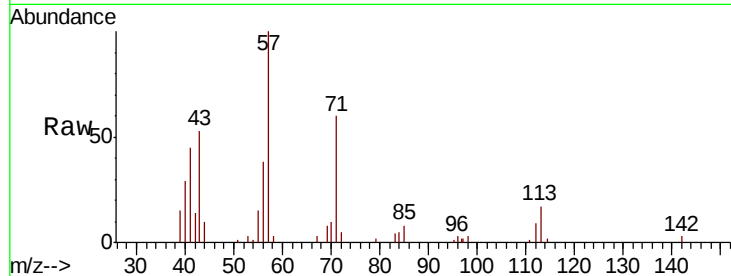
Ion Ratio Lower Upper

43 100

70 13.8 33.4 50.2#

55 16.3 18.9 28.3#

61 0.0 18.5 27.7#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.460 ug/l

RT: 12.80 min Scan# 1850

Delta R.T. 0.06 min

Lab File: VD064533.D

Acq: 16 Dec 2019 19:53

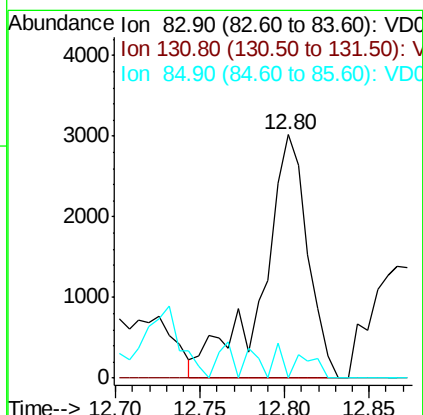
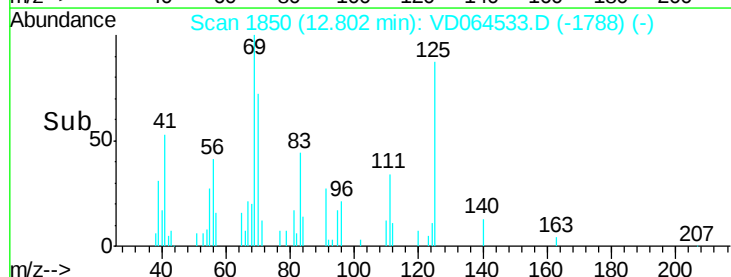
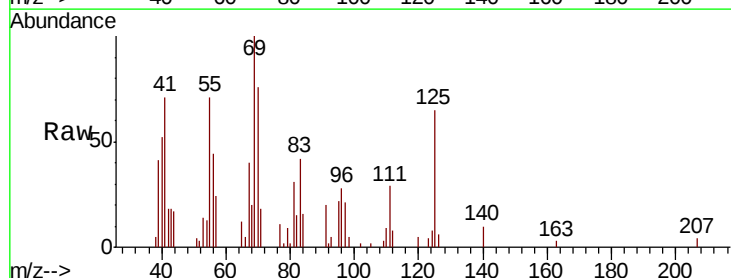
Tgt Ion: 83 Resp: 5566

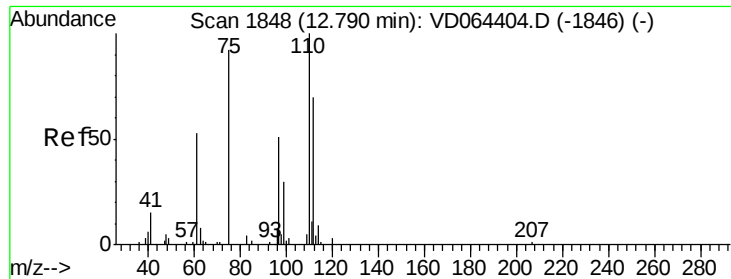
Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

85 0.0 31.3 93.9#

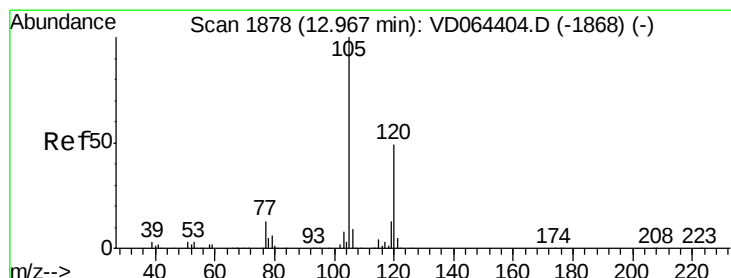
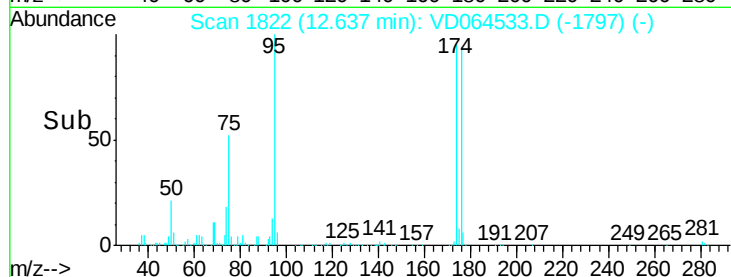
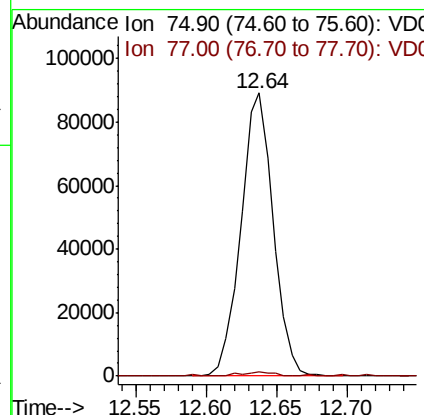
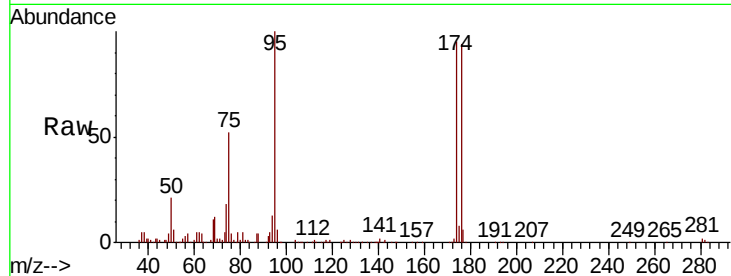




#76
 1,2,3-Trichloropropane
 Concen: 53.961 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064533.D
 Acq: 16 Dec 2019 19:53

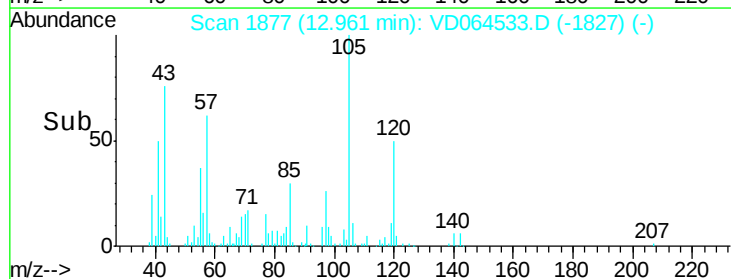
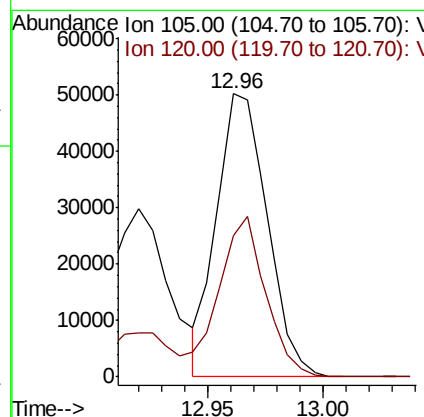
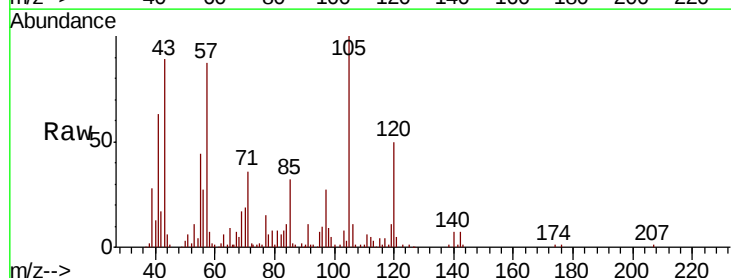
Instrument :
 MSVOA_D
 ClientSampleID :
 EP-8

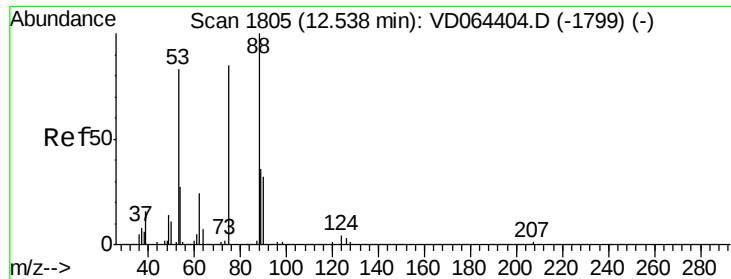
Tgt Ion: 75 Resp: 142262
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 4.059 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. -0.01 min
 Lab File: VD064533.D
 Acq: 16 Dec 2019 19:53

Tgt Ion: 105 Resp: 76481
 Ion Ratio Lower Upper
 105 100
 120 53.2 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 117.663 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064533.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_D

ClientSampleId :

EP-8

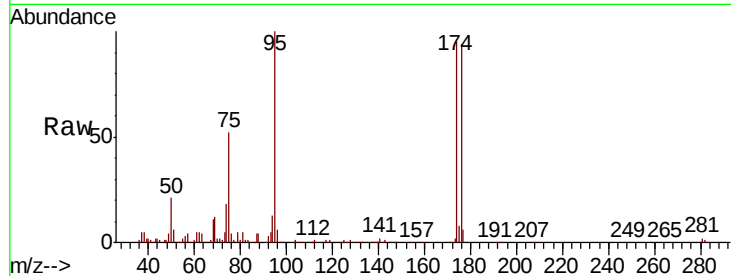
Tgt Ion: 75 Resp: 142262

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

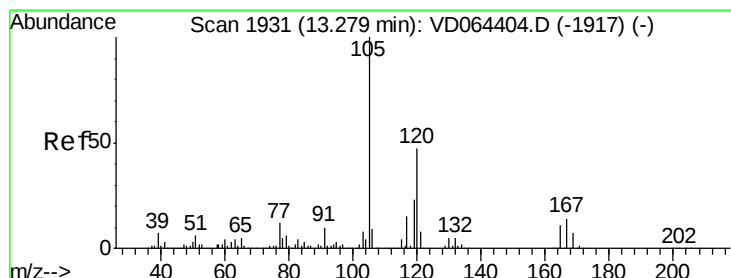
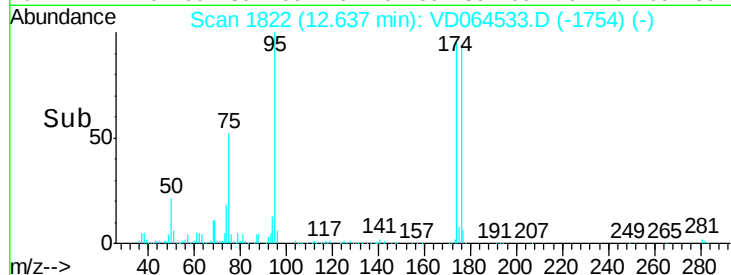
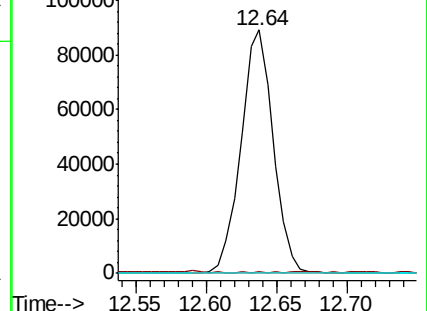
89 0.1 38.5 57.7#



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: 2.255 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD064533.D

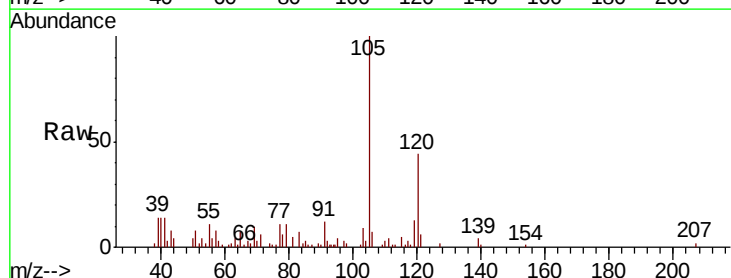
Acq: 16 Dec 2019 19:53

Tgt Ion: 105 Resp: 42723

Ion Ratio Lower Upper

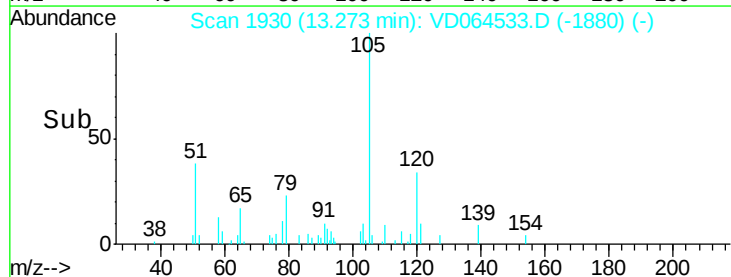
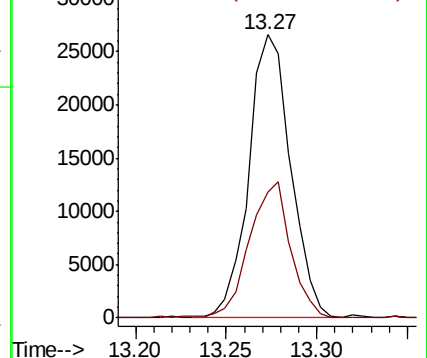
105 100

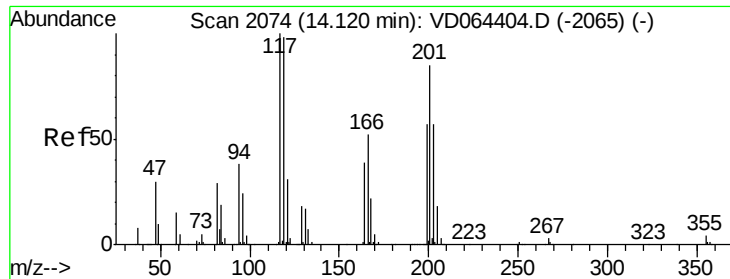
120 47.5 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 2.297 ug/l

RT: 14.13 min Scan# 2076

Delta R.T. 0.01 min

Lab File: VD064533.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_D

ClientSampleId :

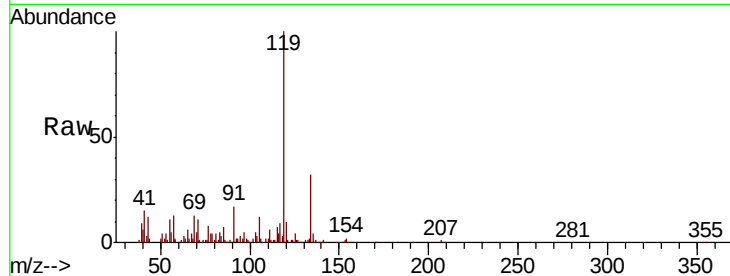
EP-8

Tgt Ion: 117 Resp: 9120

Ion Ratio Lower Upper

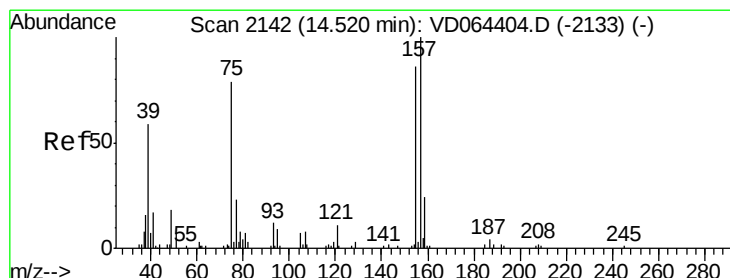
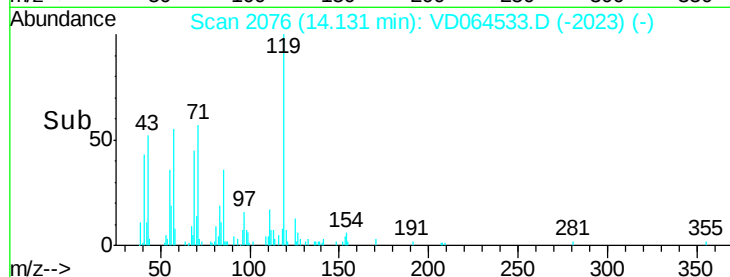
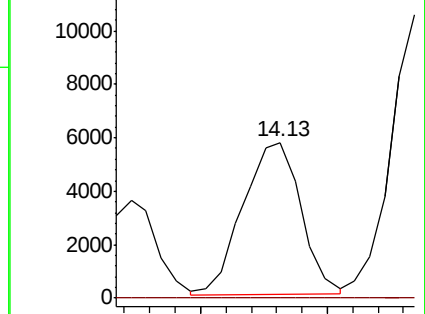
117 100

201 0.0 44.3 132.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.53 min Scan# 2144

Delta R.T. 0.01 min

Lab File: VD064533.D

Acq: 16 Dec 2019 19:53

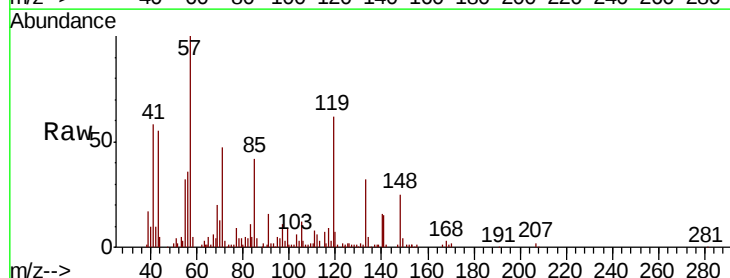
Tgt Ion: 75 Resp: 769

Ion Ratio Lower Upper

75 100

155 90.0 51.9 155.7

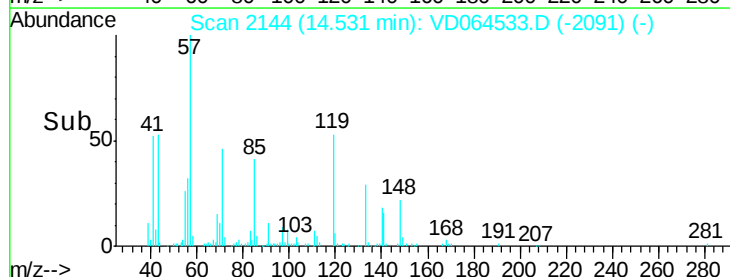
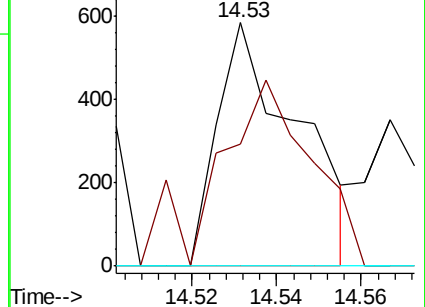
157 0.0 63.2 189.8#

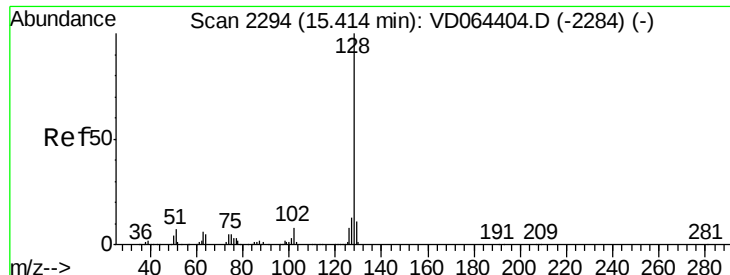


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 4.846 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD064533.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_D

ClientSampleId :

EP-8

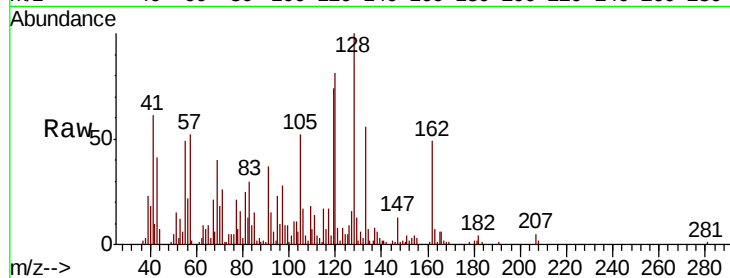
Tgt Ion:128 Resp: 57205

Ion Ratio Lower Upper

128 100

127 10.2 10.5 15.7#

129 17.1 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

