

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010320\
 Data File : VD064765.D
 Acq On : 04 Jan 2020 07:22
 Operator : VA/SY
 Sample : K6484-50
 Misc : 5.10G/5.00ml/MSVOA D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 06 06:53:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	341808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	541042	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	475982	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	214809	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	165382	54.87	ug/l	0.00
Spiked Amount						
			Recovery	=	109.74%	
35) Dibromofluoromethane	7.92	113	169793	51.15	ug/l	0.00
Spiked Amount						
			Recovery	=	102.30%	
50) Toluene-d8	10.34	98	642604	50.55	ug/l	0.00
Spiked Amount						
			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	12.64	95	197718	49.18	ug/l	0.00
Spiked Amount						
			Recovery	=	98.36%	

Target Compounds

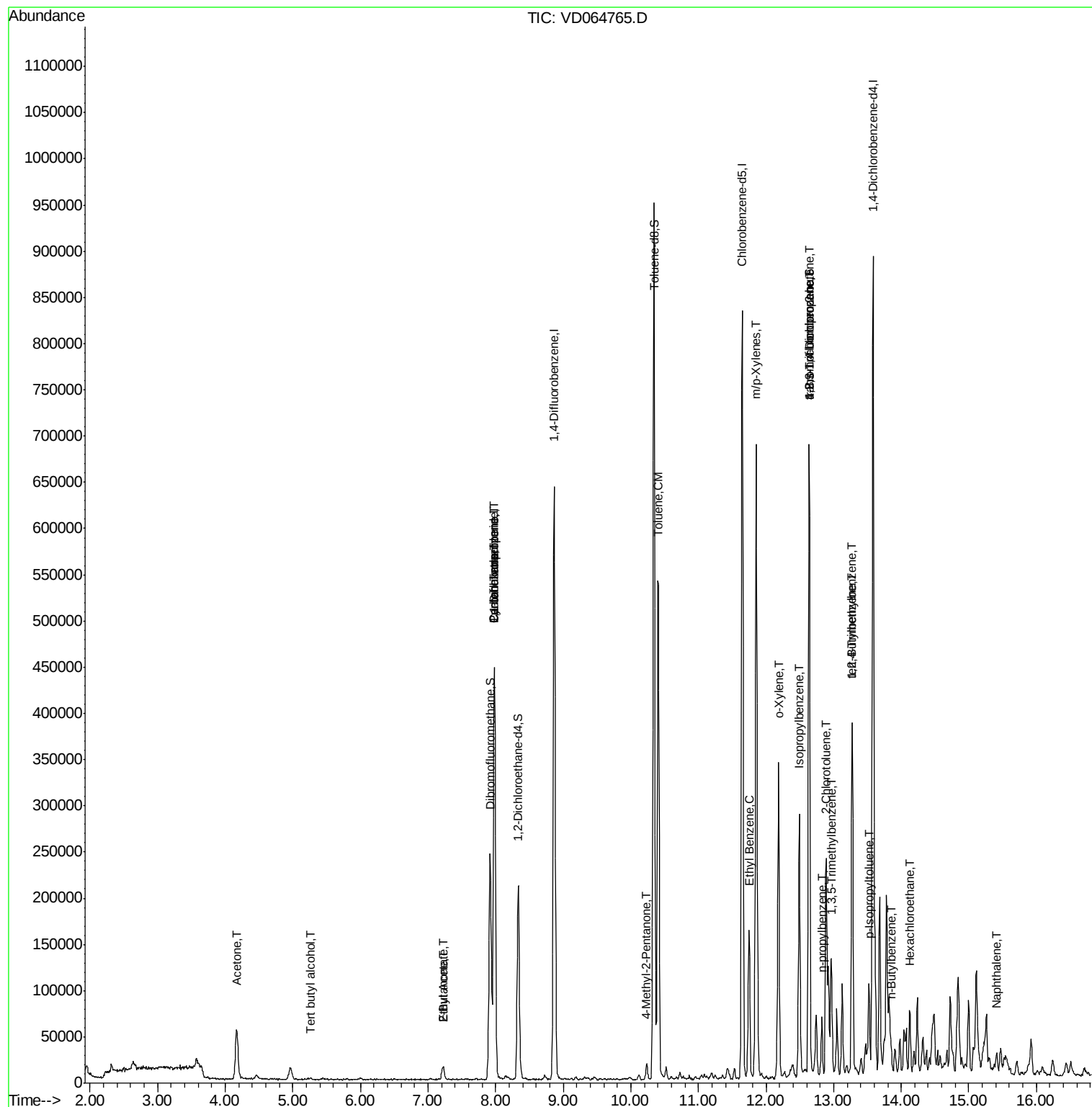
					Qvalue	
11) Tert butyl alcohol	5.26	59	1622	9.390	ug/l	99
16) Acetone	4.16	43	98090	148.982	ug/l	94
20) Methylene Chloride	4.96	84	9079	Below Cal		96
25) 2-Butanone	7.23	43	11012	13.292	ug/l #	87
31) Cyclohexane	7.98	56	7458	1.327	ug/l #	16
36) 1,1-Dichloropropene	7.99	75	25839	4.962	ug/l #	51
37) Ethyl Acetate	7.23	43	11012	5.383	ug/l #	70
38) Carbon Tetrachloride	7.98	117	32972	5.938	ug/l #	16
51) 4-Methyl-2-Pentanone	10.23	43	11519	5.723	ug/l	96
52) Toluene	10.40	92	232433	24.921	ug/l	99
67) Ethyl Benzene	11.75	91	113779	6.345	ug/l	99
68) m/p-Xylenes	11.86	106	203012	29.333	ug/l	99
69) o-Xylene	12.18	106	89360	14.295	ug/l	99
73) Isopropylbenzene	12.49	105	26409	1.720	ug/l	81
76) 1,2,3-Trichloropropane	12.64	75	108162	63.765	ug/l #	100
78) n-propylbenzene	12.83	91	48375	2.701	ug/l	97
79) 2-Chlorotoluene	12.89	91	18607	1.891	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.97	105	53427	4.237	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.64	75	108162	133.362	ug/l #	10
83) tert-Butylbenzene	13.27	119	25860	2.362	ug/l #	53
84) 1,2,4-Trimethylbenzene	13.28	105	210421	16.755	ug/l	98
86) p-Isopropyltoluene	13.53	119	54162	3.774	ug/l	98
89) n-Butylbenzene	13.86	91	18456	1.428	ug/l #	72
90) Hexachloroethane	14.13	117	4071	1.485	ug/l #	5
95) Naphthalene	15.42	128	15775	2.209	ug/l #	93

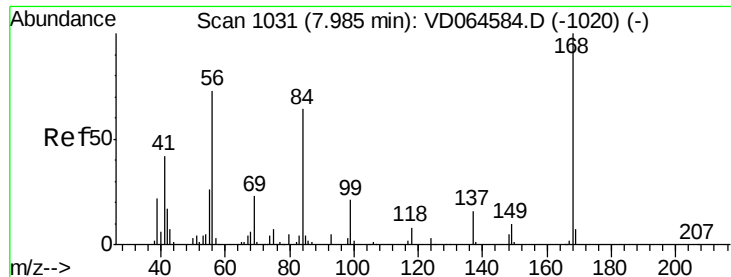
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064765.D

Acq: 04 Jan 2020 07:22

Instrument :

MSVOA_D

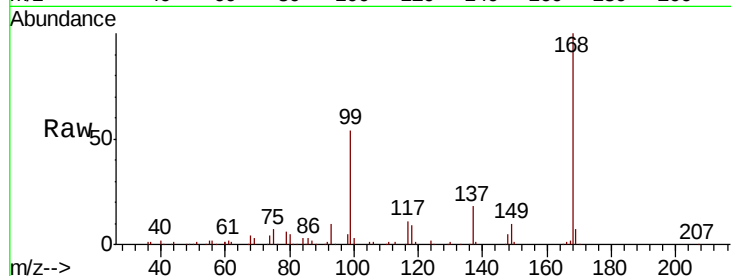
ClientSampleId :

Tot Ion:168 Resp: 341808

Ion Ratio Lower Upper

168 100

99 53.7 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

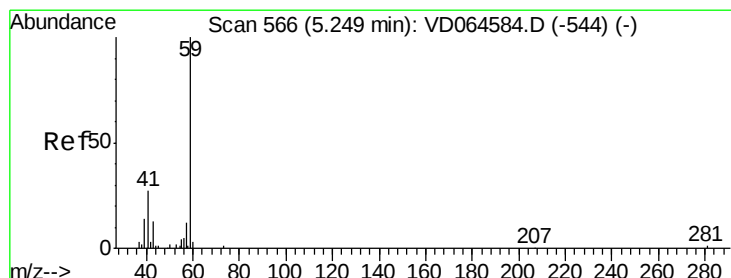
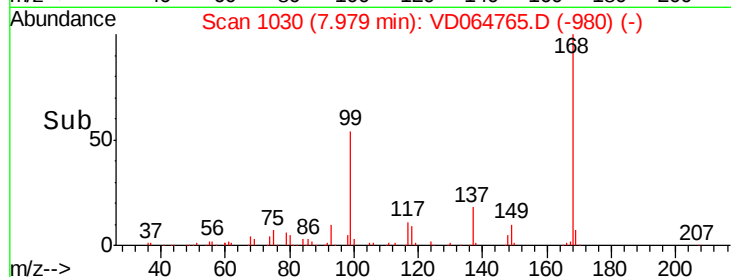
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 9.390 ug/l

RT: 5.26 min Scan# 567

Delta R.T. 0.01 min

Lab File: VD064765.D

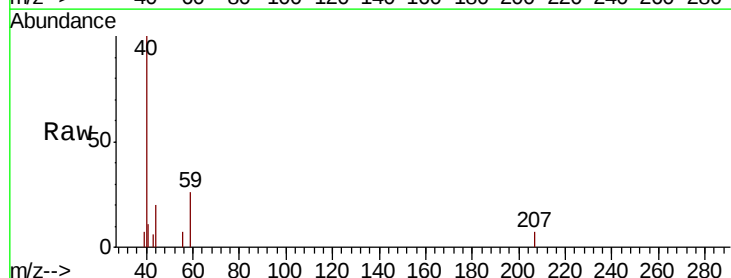
Acq: 04 Jan 2020 07:22

Tgt Ion: 59 Resp: 1622

Ion Ratio Lower Upper

59 100

57 12.0 9.3 13.9



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.26

800

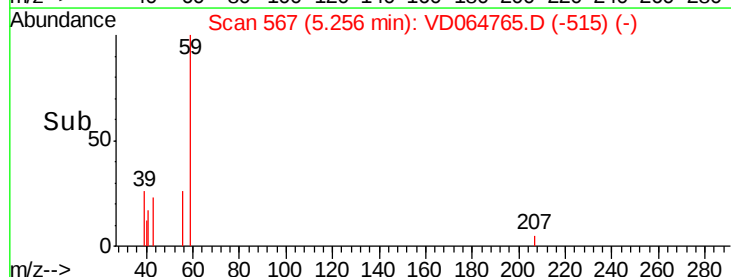
600

400

200

0

Time-->

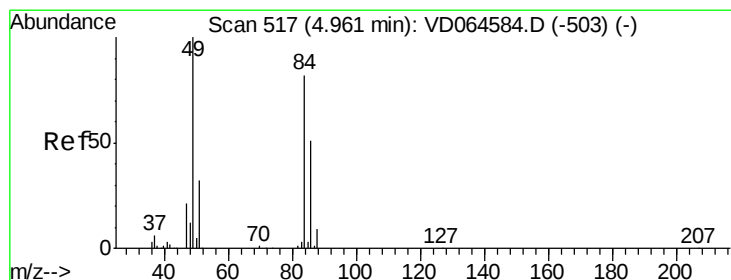
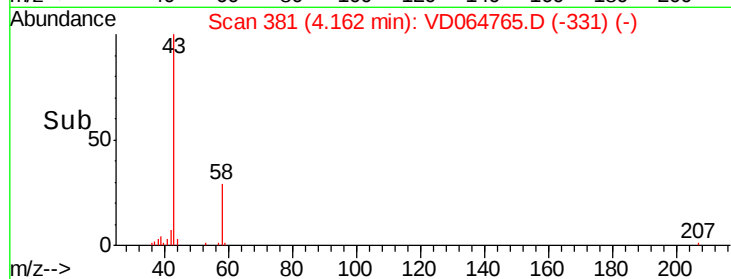
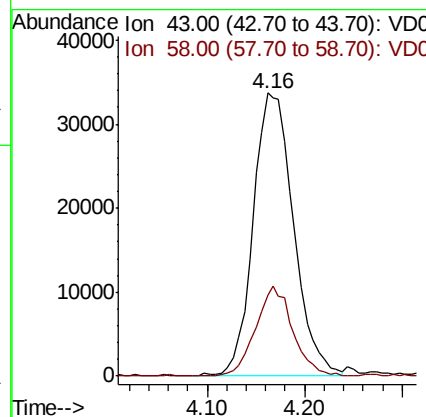
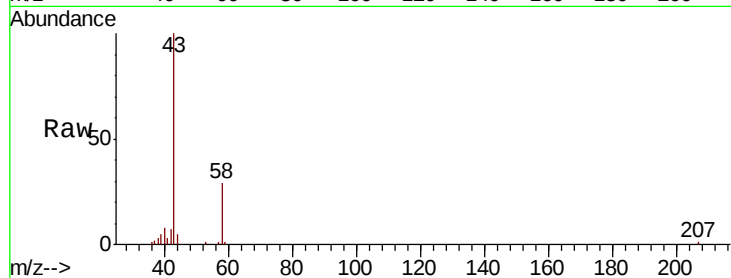




#16
Acetone
Concen: 148.982 ug/l
RT: 4.16 min Scan# 381
Delta R.T. -0.01 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

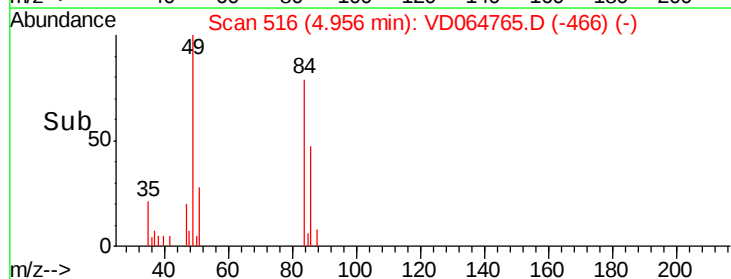
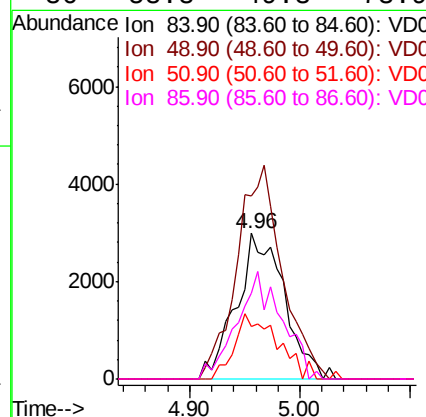
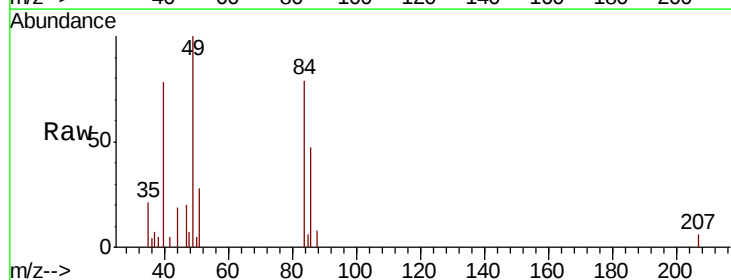
Instrument :
MSVOA_D
ClientSampleId :

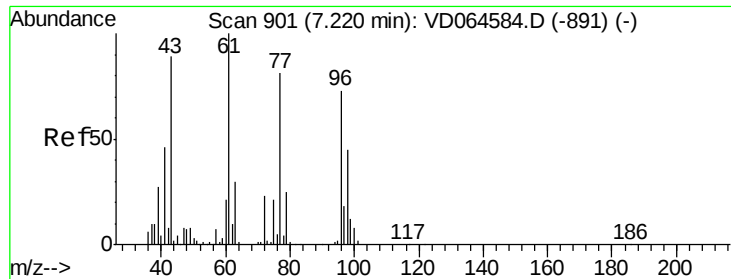
Tot Ion: 43 Resp: 98090
Ion Ratio Lower Upper
43 100
58 28.6 25.8 38.6



#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

Tgt Ion: 84 Resp: 9079
Ion Ratio Lower Upper
84 100
49 126.0 97.2 145.8
51 35.9 31.4 47.0
86 58.8 49.3 73.9

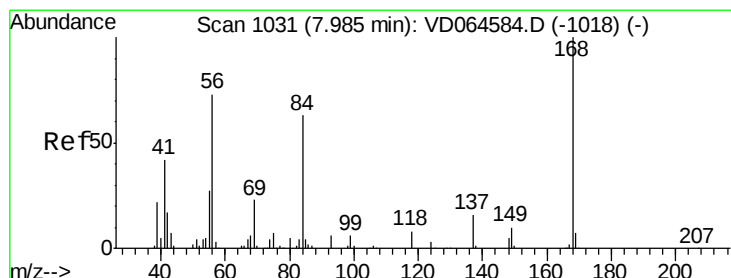
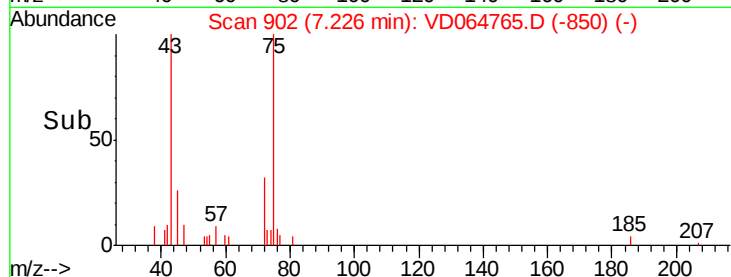
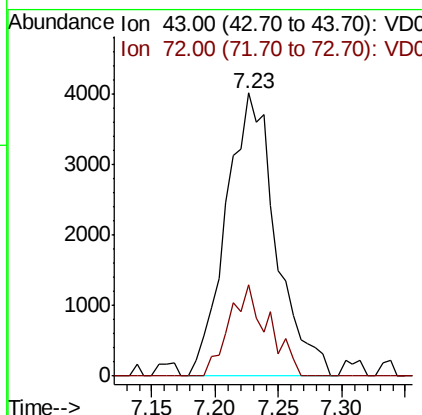
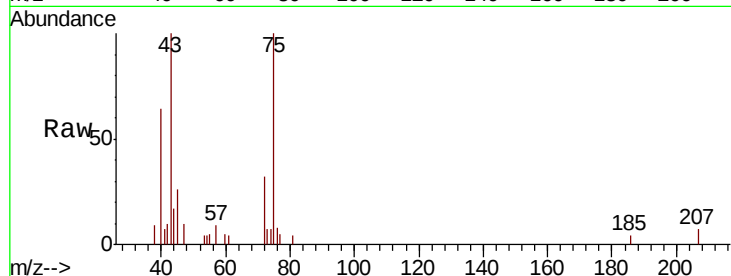




#25
2-Butanone
Concen: 13.292 ug/l
RT: 7.23 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

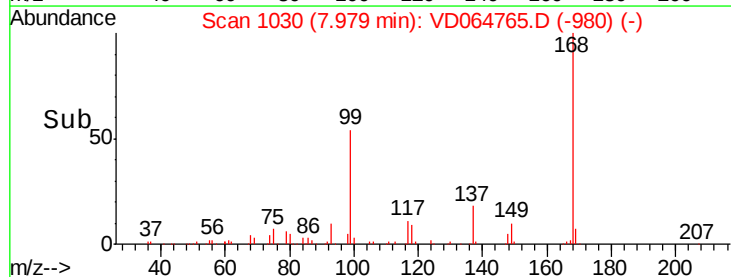
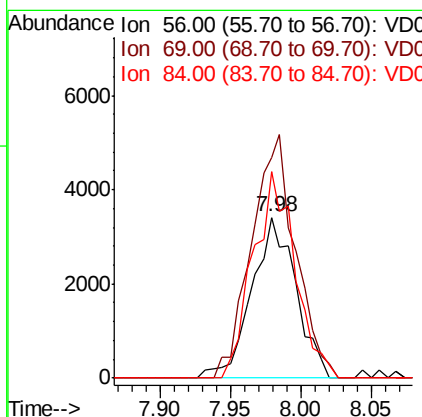
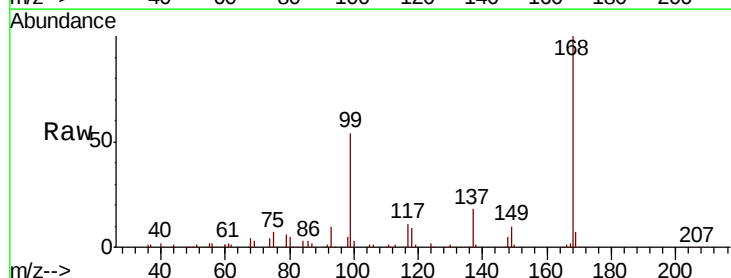
Instrument :
MSVOA_D
ClientSampleId :

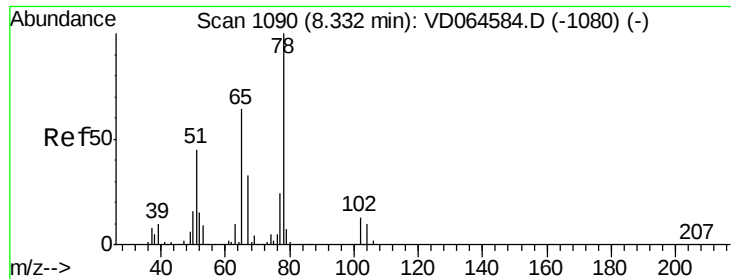
Tot Ion: 43 Resp: 11012
Ion Ratio Lower Upper
43 100
72 32.5 20.7 31.1#



#31
Cyclohexane
Concen: 1.327 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

Tgt Ion: 56 Resp: 7458
Ion Ratio Lower Upper
56 100
69 137.0 24.7 37.1#
84 128.7 69.4 104.2#





#33

1,2-Dichloroethane-d4

Concen: 54.871 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064765.D

Acq: 04 Jan 2020 07:22

Instrument :

MSVOA_D

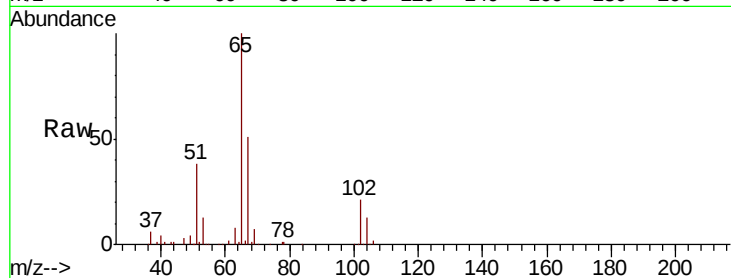
ClientSampleId :

Tot Ion: 65 Resp: 165382

Ion Ratio Lower Upper

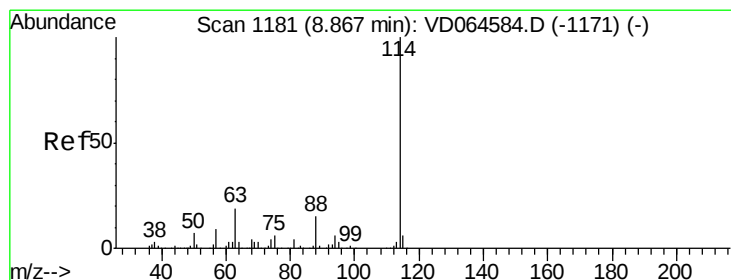
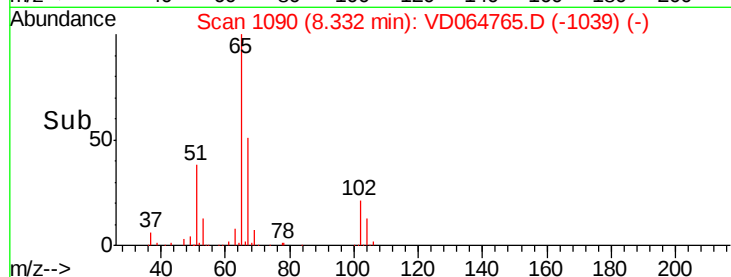
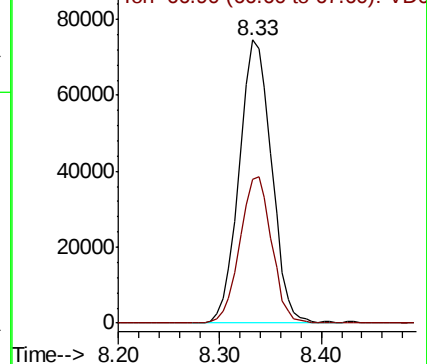
65 100

67 50.9 0.0 106.2



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: VD064765.D

Acq: 04 Jan 2020 07:22

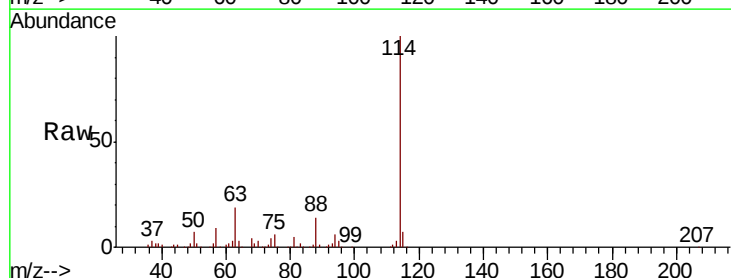
Tgt Ion: 114 Resp: 541042

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.0

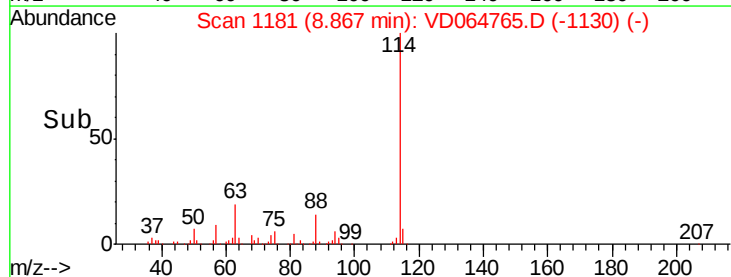
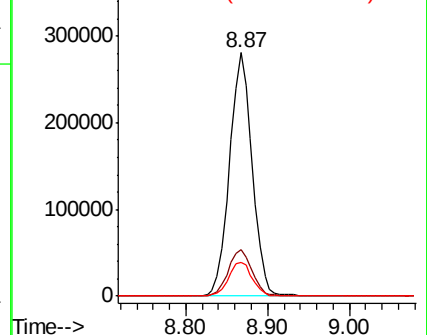
88 13.9 0.0 29.2

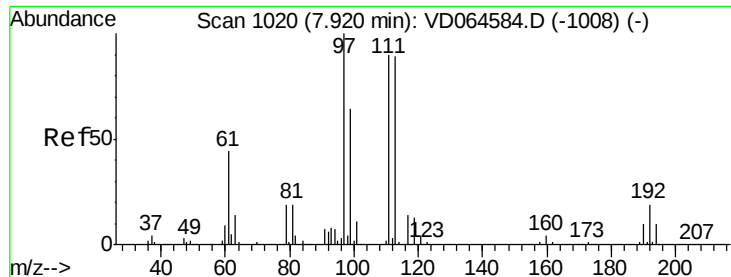


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

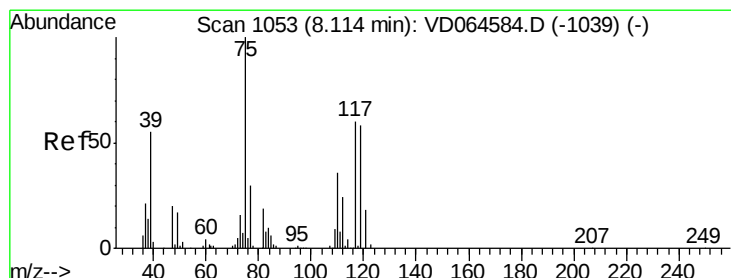
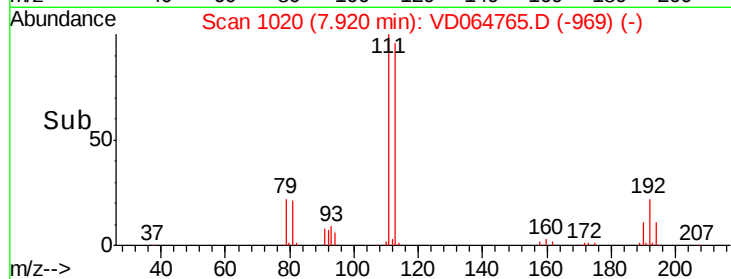
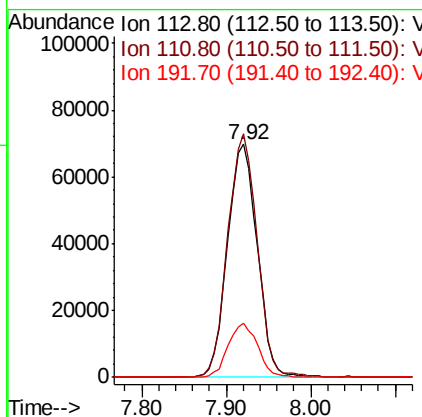
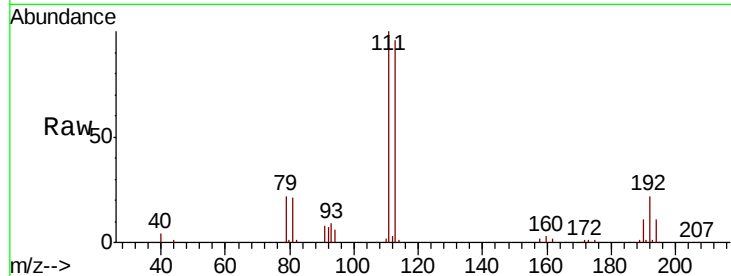




#35
 Dibromofluoromethane
 Concen: 51.152 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064765.D
 Acq: 04 Jan 2020 07:22

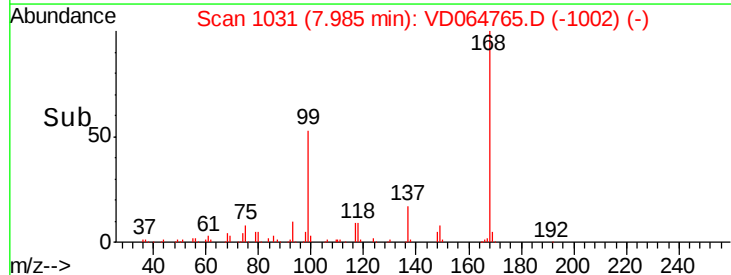
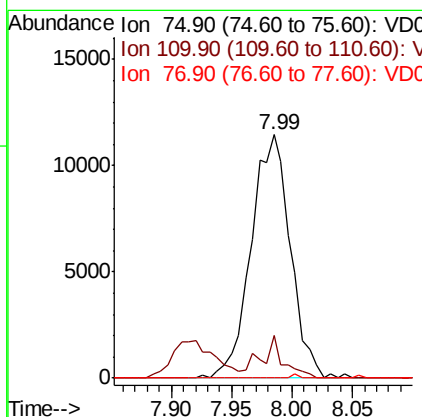
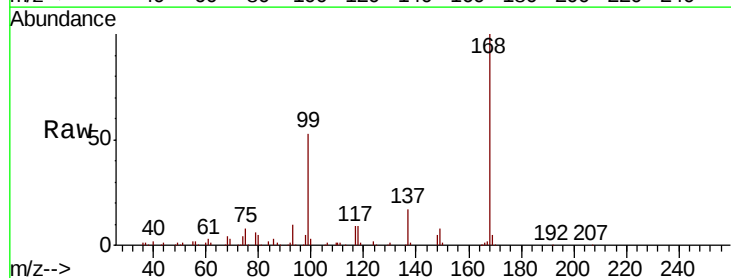
Instrument :
 MSVOA_D
 ClientSampleId :

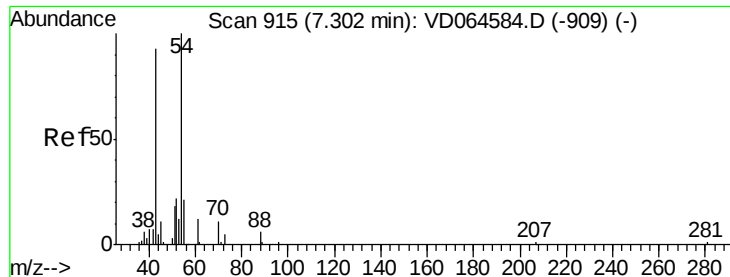
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.6	121.0
192	22.9	17.9	26.9



#36
 1,1-Dichloropropene
 Concen: 4.962 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064765.D
 Acq: 04 Jan 2020 07:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.1	54.1#
77	0.3	24.2	36.4#

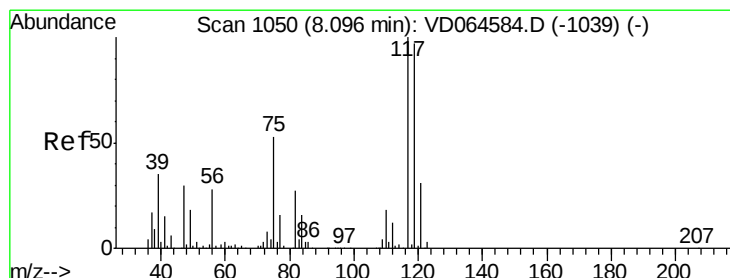
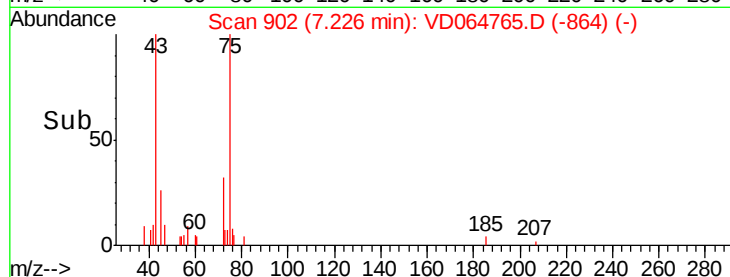
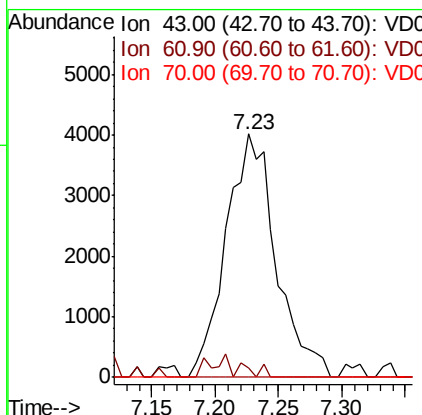
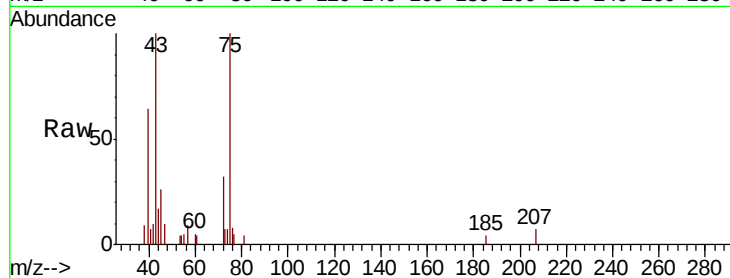




#37
Ethyl Acetate
Concen: 5.383 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.08 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

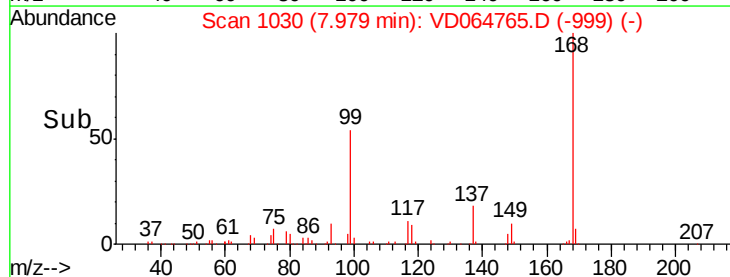
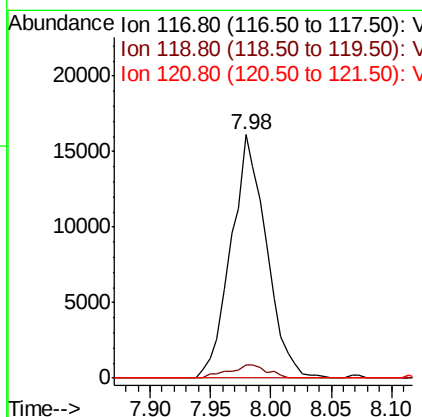
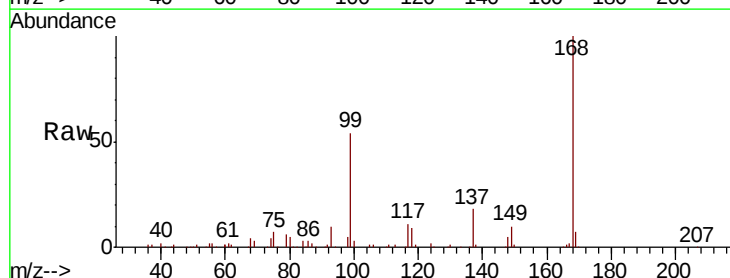
Instrument :
MSVOA_D
ClientSampled :

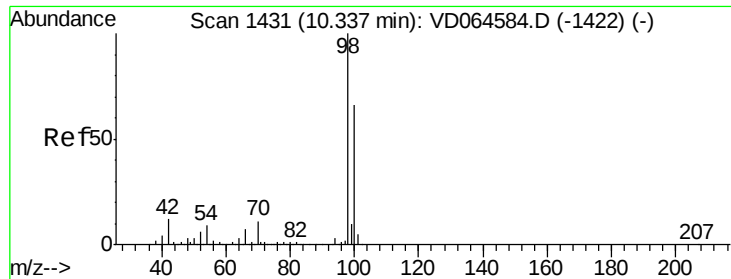
Tot Ion: 43 Resp: 11012
Ion Ratio Lower Upper
43 100
61 0.0 10.3 15.5#
70 0.0 7.6 11.4#



#38
Carbon Tetrachloride
Concen: 5.938 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

Tgt Ion: 117 Resp: 32972
Ion Ratio Lower Upper
117 100
119 5.4 77.3 115.9#
121 0.0 25.0 37.6#

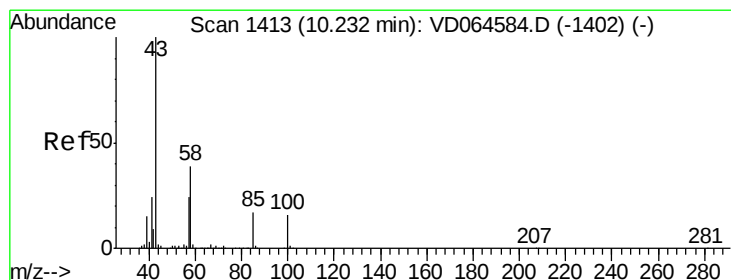
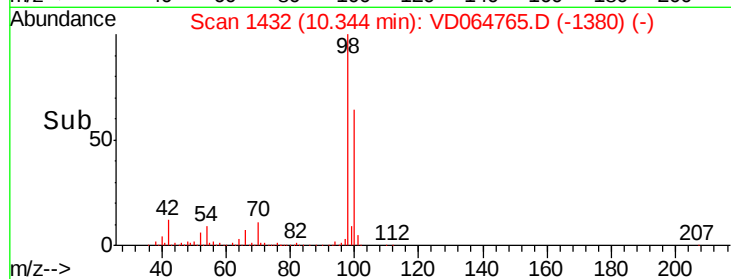
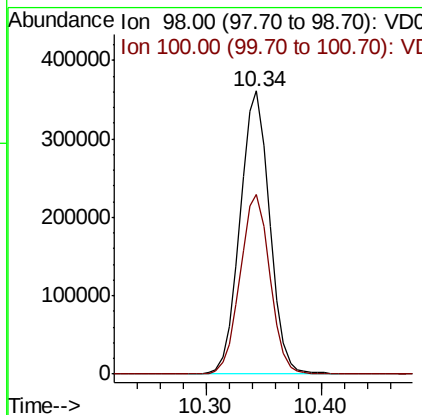
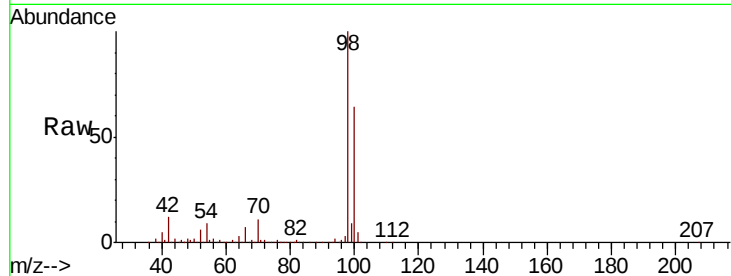




#50
Toluene-d8
Concen: 50.547 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

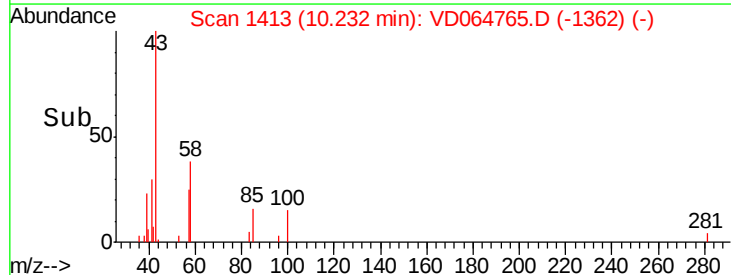
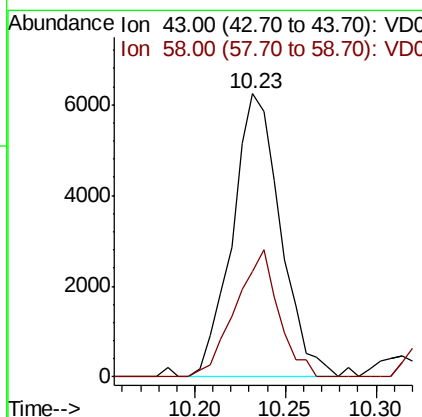
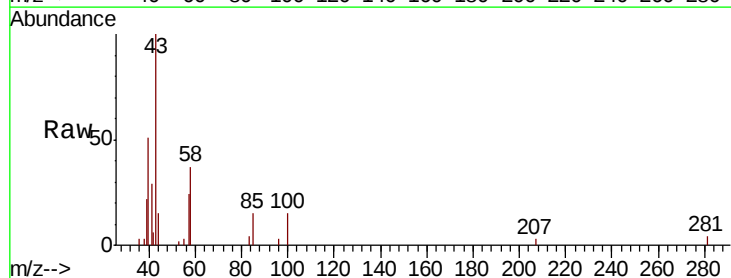
Instrument :
MSVOA_D
ClientSampleId :

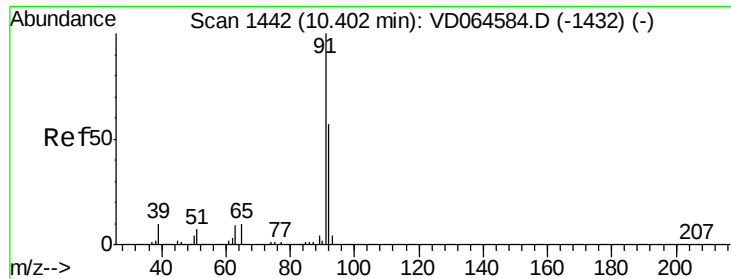
Tot Ion: 98 Resp: 642604
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 5.723 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

Tgt Ion: 43 Resp: 11519
Ion Ratio Lower Upper
43 100
58 40.2 30.2 45.2





#52

Toluene

Concen: 24.921 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD064765.D

Acq: 04 Jan 2020 07:22

Instrument :

MSVOA_D

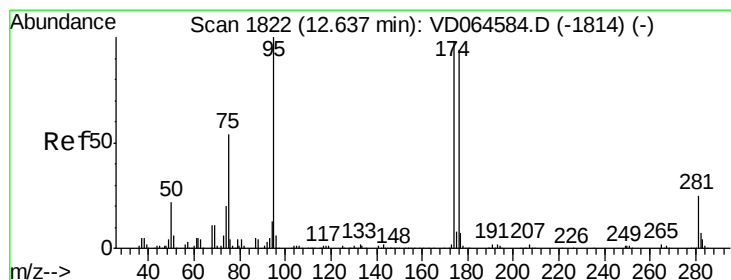
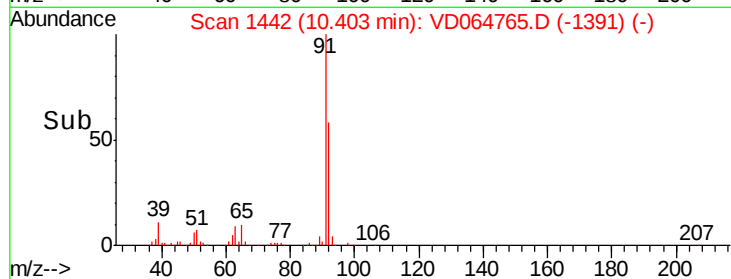
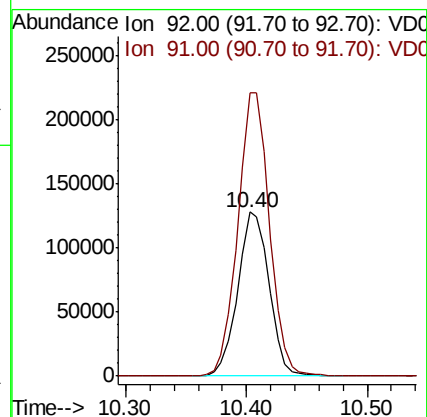
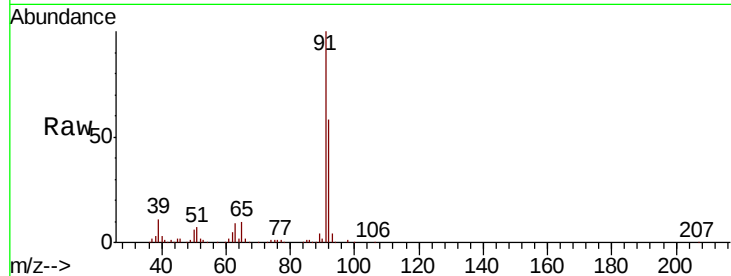
ClientSampleId :

Tot Ion: 92 Resp: 232433

Ion Ratio Lower Upper

92 100

91 174.5 138.7 208.1



#62

4-Bromofluorobenzene

Concen: 49.184 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064765.D

Acq: 04 Jan 2020 07:22

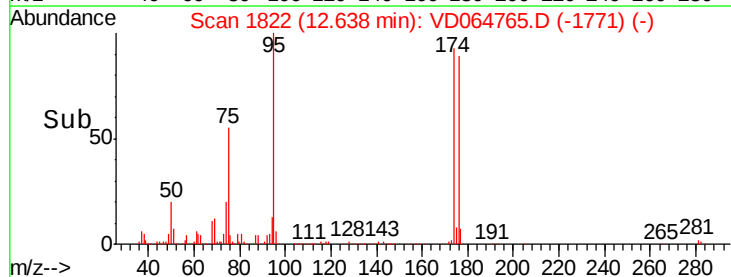
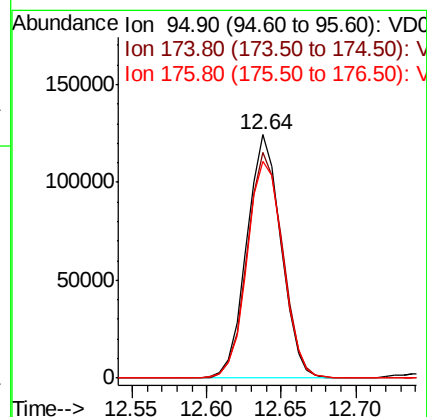
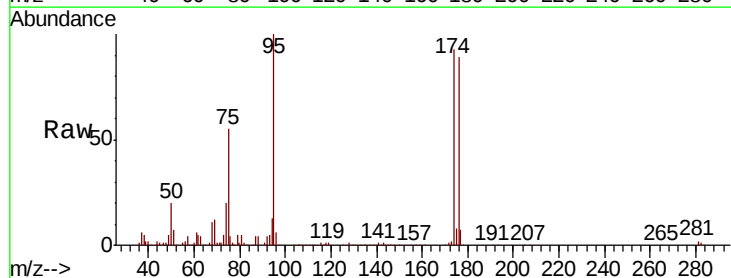
Tgt Ion: 95 Resp: 197718

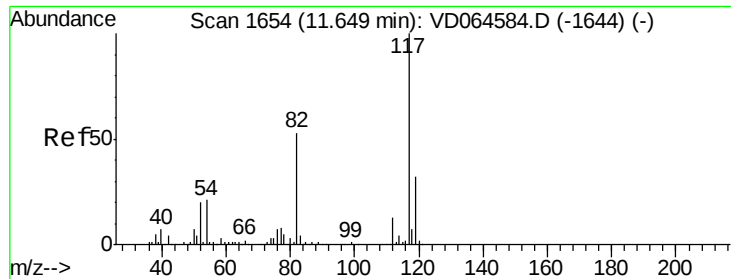
Ion Ratio Lower Upper

95 100

174 95.7 0.0 193.2

176 93.0 0.0 184.2

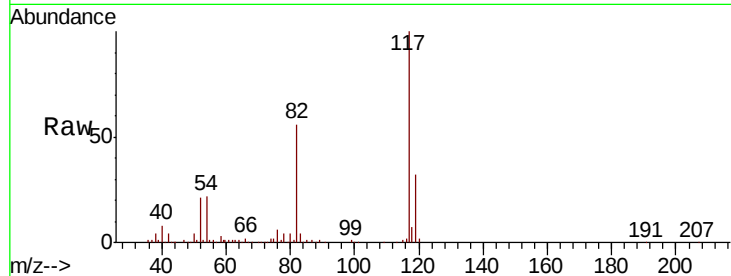




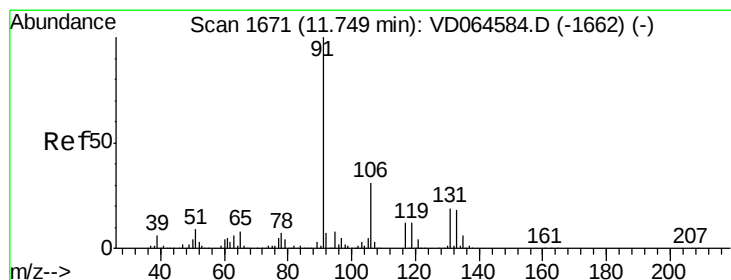
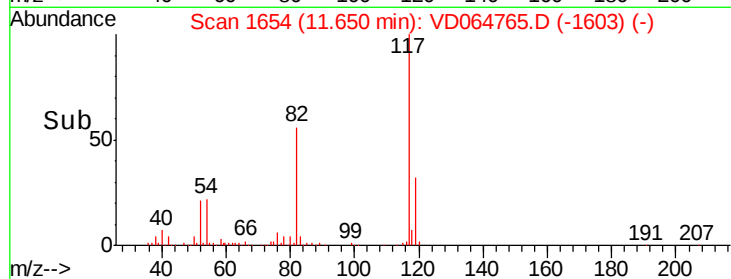
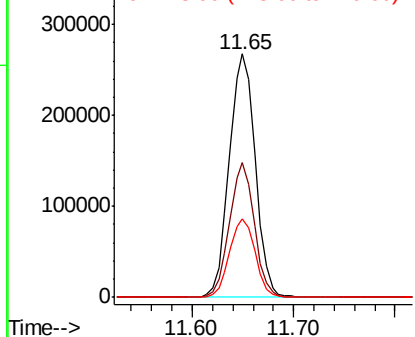
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 475982
Ion Ratio Lower Upper
117 100
82 55.6 42.2 63.4
119 32.3 26.0 39.0

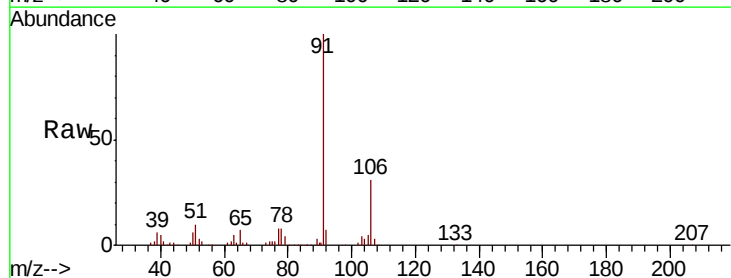


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VDC
Ion 118.90 (118.60 to 119.60): V

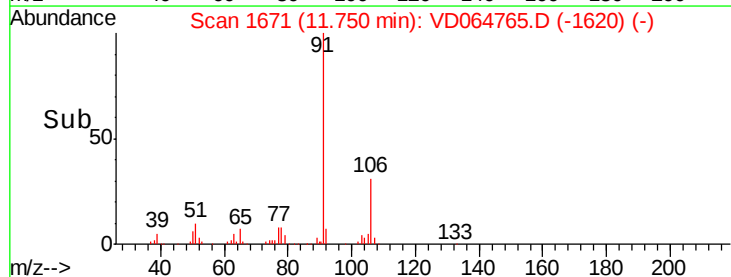
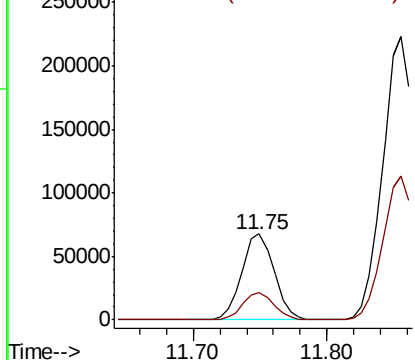


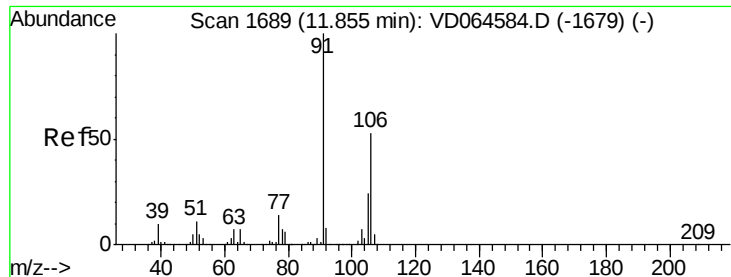
#67
Ethyl Benzene
Concen: 6.345 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

Tgt Ion: 91 Resp: 113779
Ion Ratio Lower Upper
91 100
106 31.3 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 29.333 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064765.D

Acq: 04 Jan 2020 07:22

Instrument :

MSVOA_D

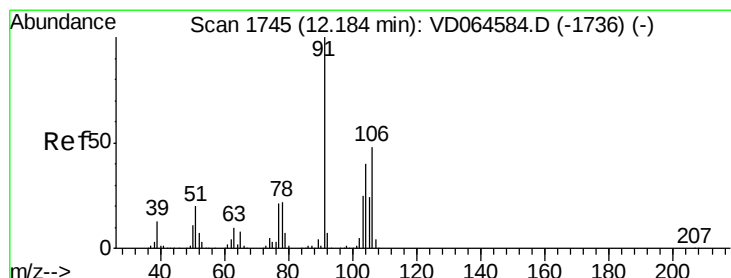
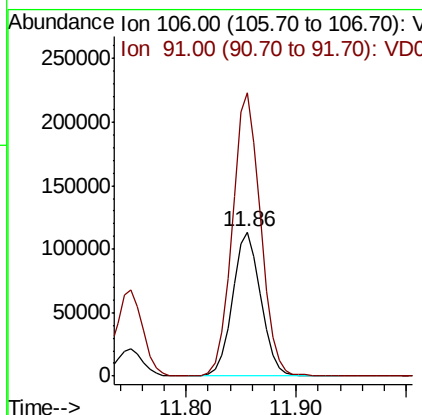
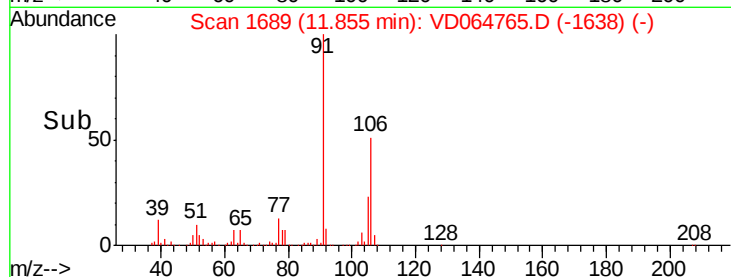
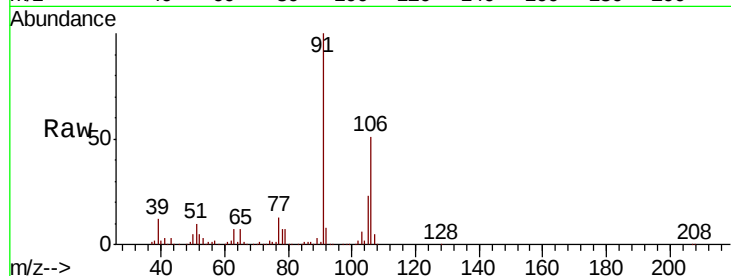
ClientSampleId :

Tot Ion:106 Resp: 203012

Ion Ratio Lower Upper

106 100

91 196.6 156.3 234.5



#69

o-Xylene

Concen: 14.295 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VD064765.D

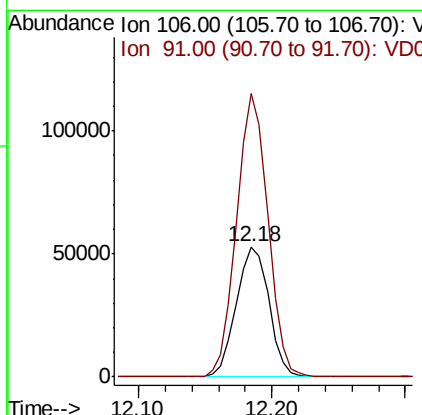
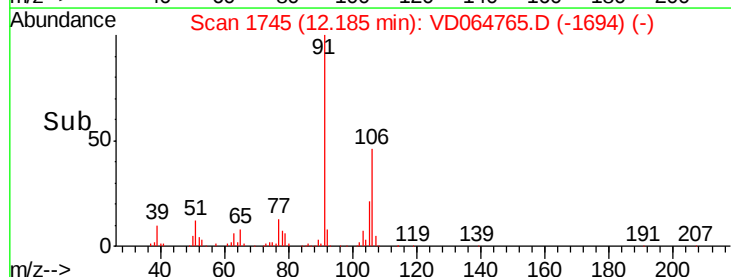
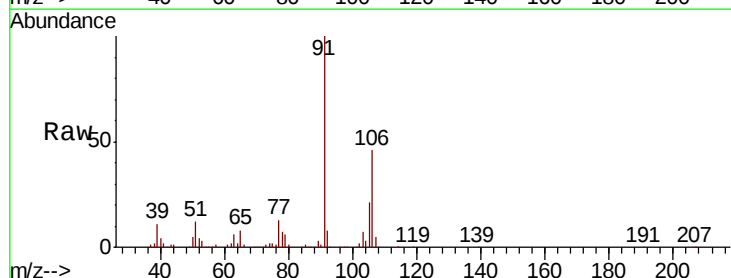
Acq: 04 Jan 2020 07:22

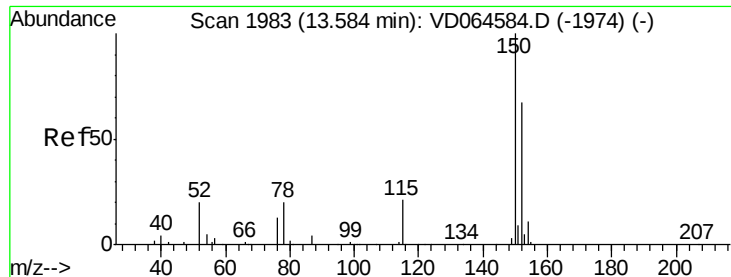
Tgt Ion:106 Resp: 89360

Ion Ratio Lower Upper

106 100

91 210.4 104.8 314.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064765.D

Acq: 04 Jan 2020 07:22

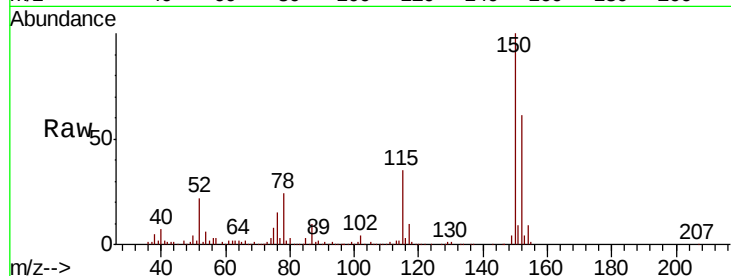
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:152 Resp: 214809

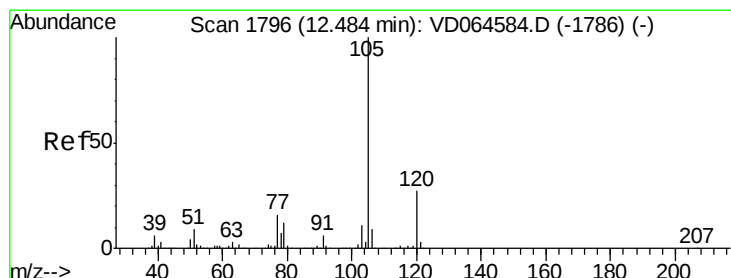
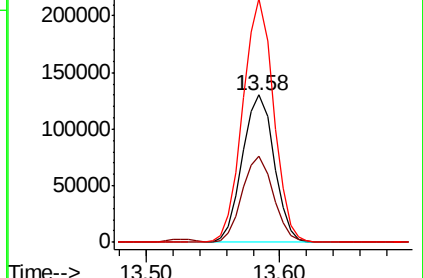
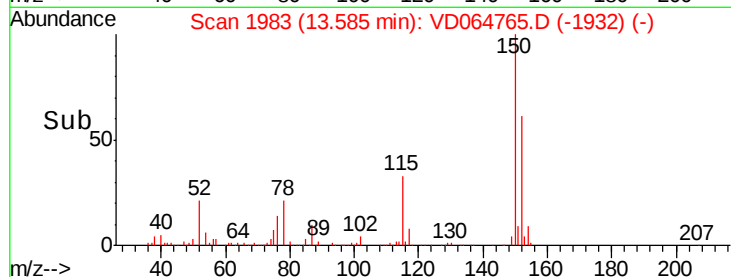
Ion	Ratio	Lower	Upper
152	100		
115	57.8	27.8	83.4
150	159.5	0.0	351.4



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



#73

Isopropylbenzene

Concen: 1.720 ug/l

RT: 12.49 min Scan# 1797

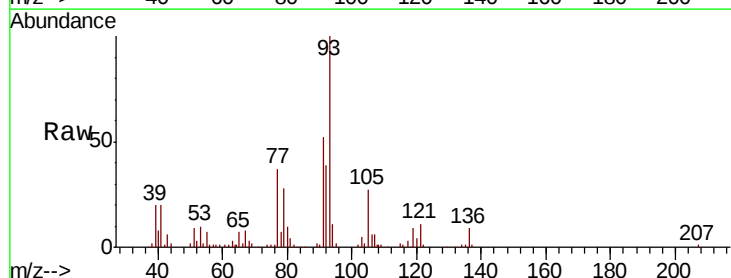
Delta R.T. 0.01 min

Lab File: VD064765.D

Acq: 04 Jan 2020 07:22

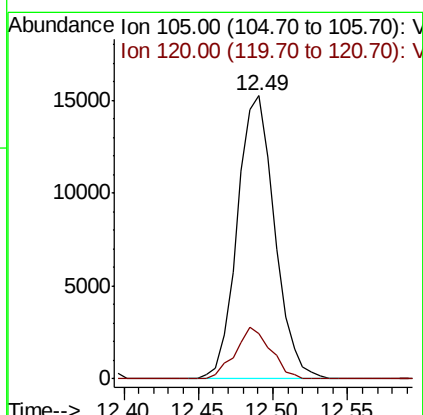
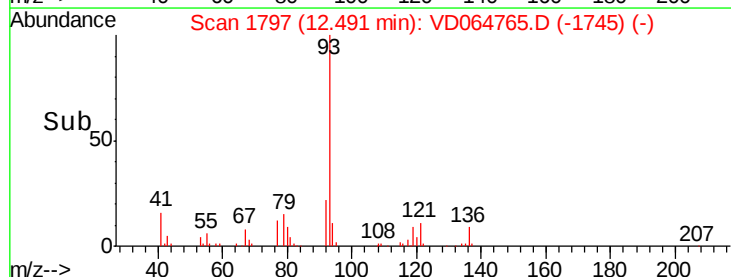
Tgt Ion:105 Resp: 26409

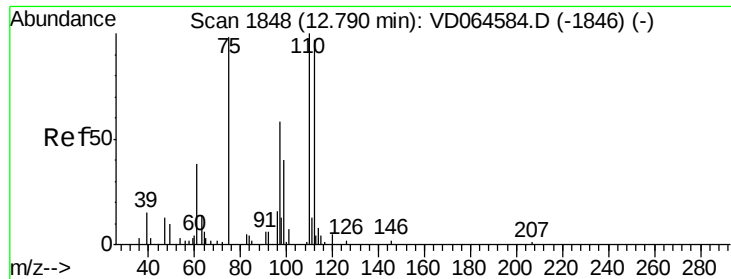
Ion	Ratio	Lower	Upper
105	100		
120	17.1	13.5	40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

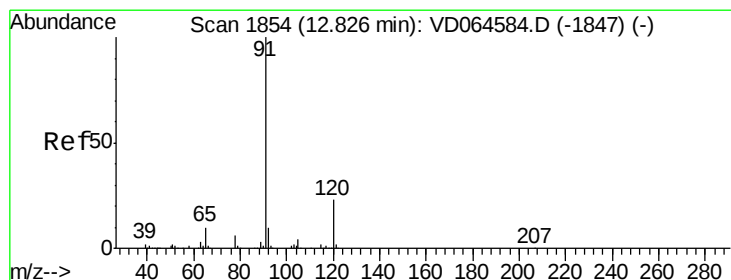
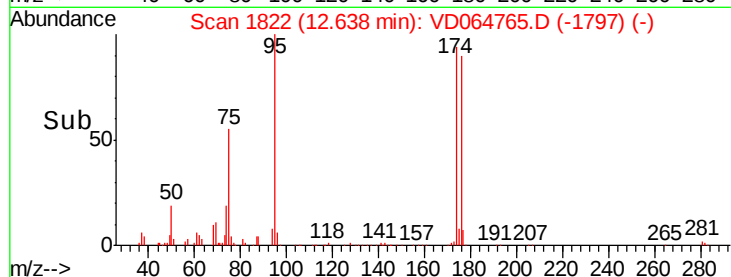
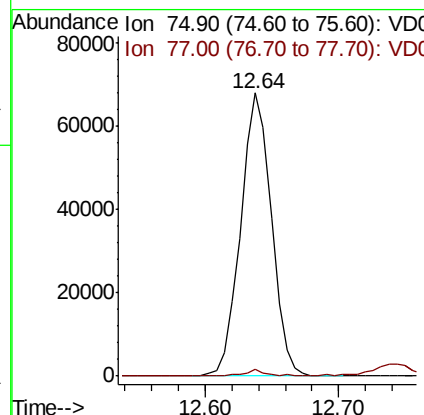
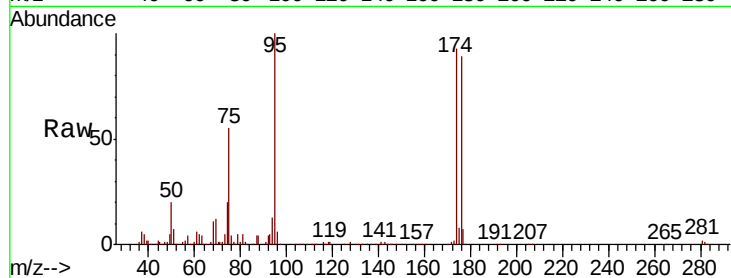




#76
 1,2,3-Trichloropropane
 Concen: 63.765 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064765.D
 Acq: 04 Jan 2020 07:22

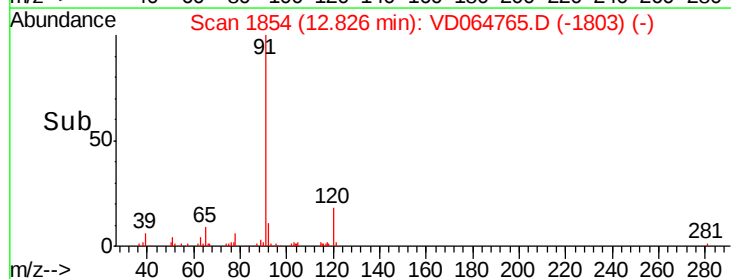
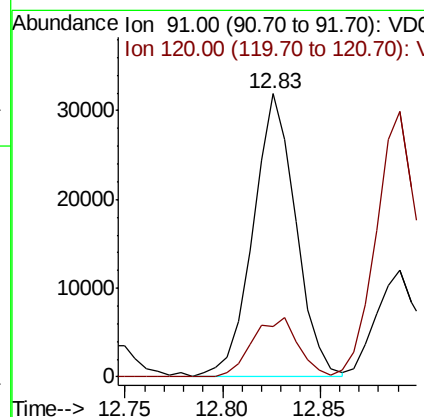
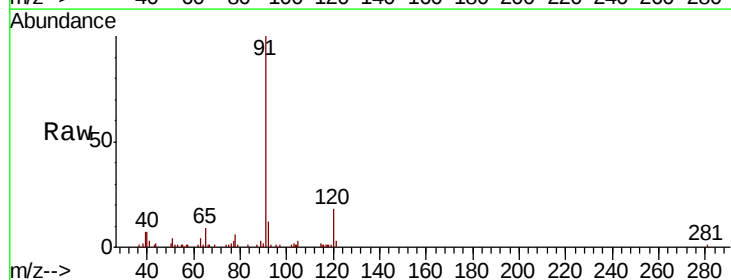
Instrument :
 MSVOA_D
 ClientSampleId :

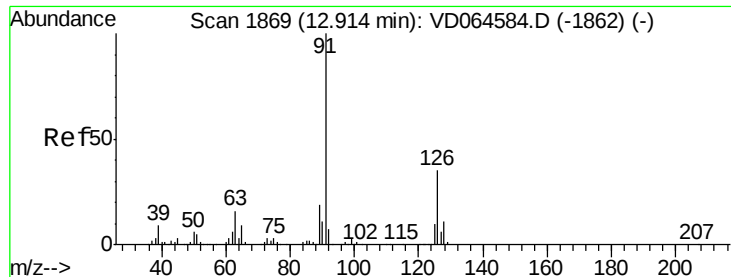
Tot Ion: 75 Resp: 108162
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#78
 n-propylbenzene
 Concen: 2.701 ug/l
 RT: 12.83 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VD064765.D
 Acq: 04 Jan 2020 07:22

Tgt Ion: 91 Resp: 48375
 Ion Ratio Lower Upper
 91 100
 120 22.4 11.9 35.9

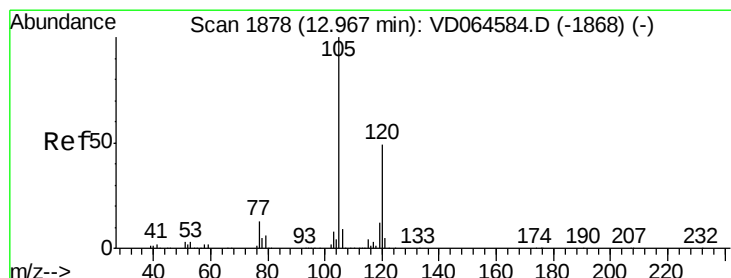
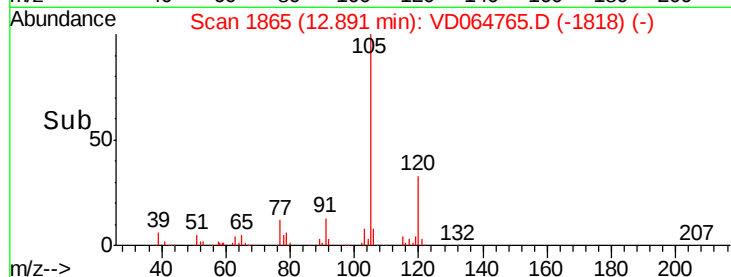
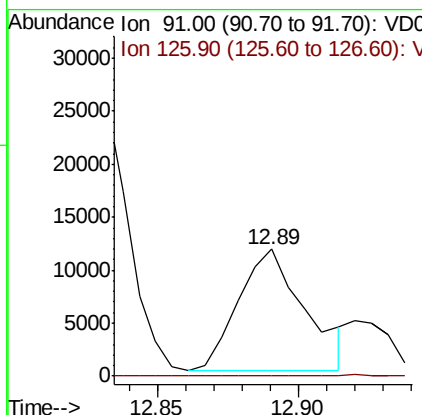
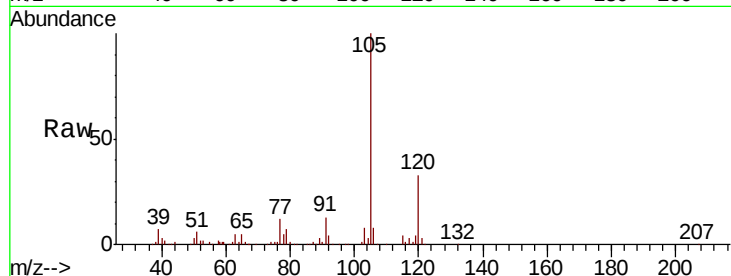




#79
 2-Chlorotoluene
 Concen: 1.891 ug/l
 RT: 12.89 min Scan# 1865
 Delta R.T. -0.02 min
 Lab File: VD064765.D
 Acq: 04 Jan 2020 07:22

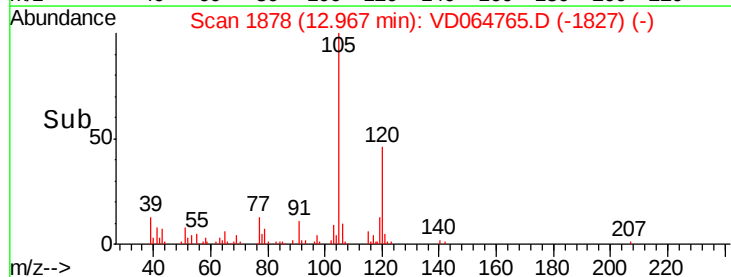
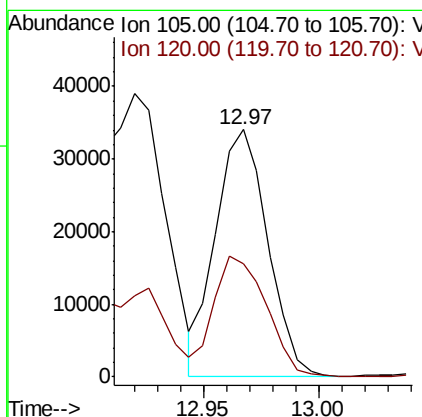
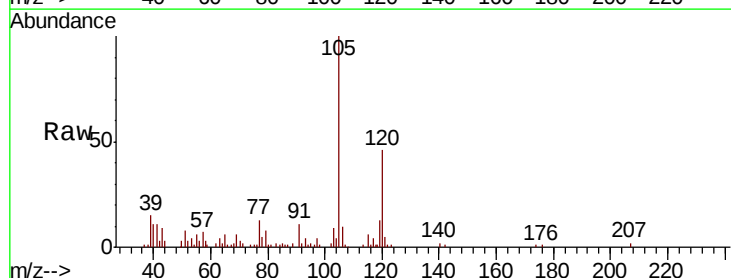
Instrument :
 MSVOA_D
 ClientSampleId :

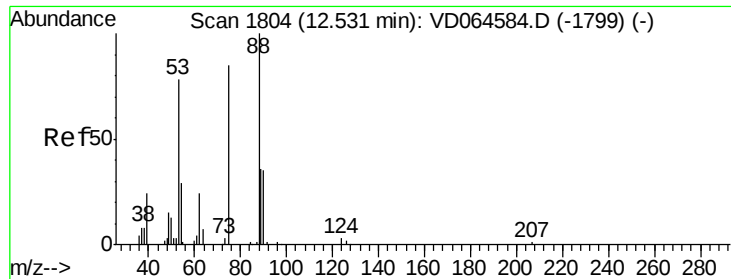
Tot Ion: 91 Resp: 18607
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.8 53.5#



#80
 1,3,5-Trimethylbenzene
 Concen: 4.237 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.00 min
 Lab File: VD064765.D
 Acq: 04 Jan 2020 07:22

Tgt Ion: 105 Resp: 53427
 Ion Ratio Lower Upper
 105 100
 120 49.5 25.0 75.0

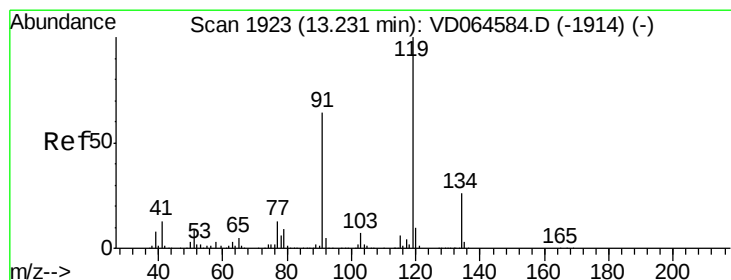
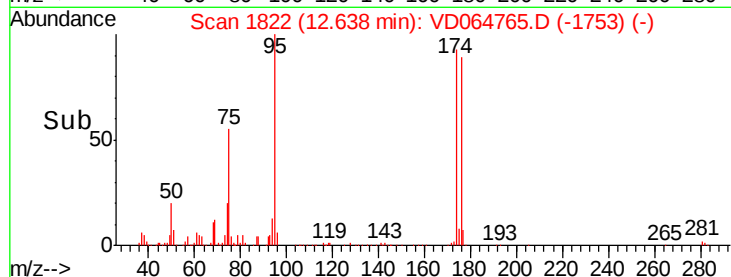
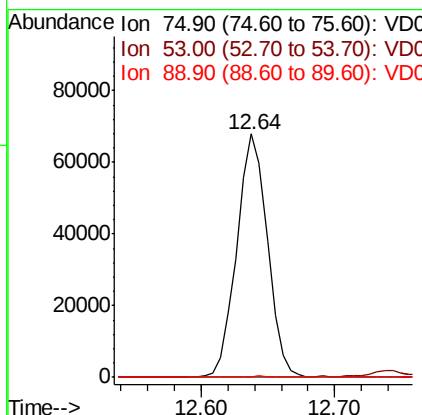
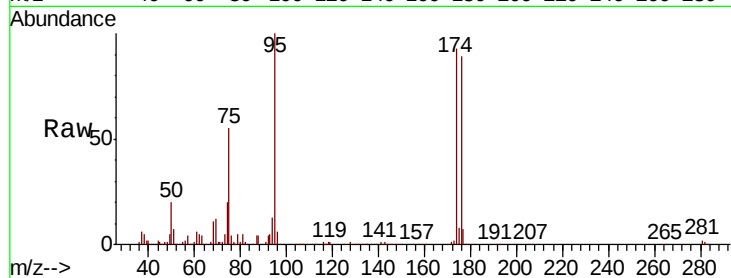




#81
trans-1,4-Dichloro-2-butene
Concen: 133.362 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.11 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

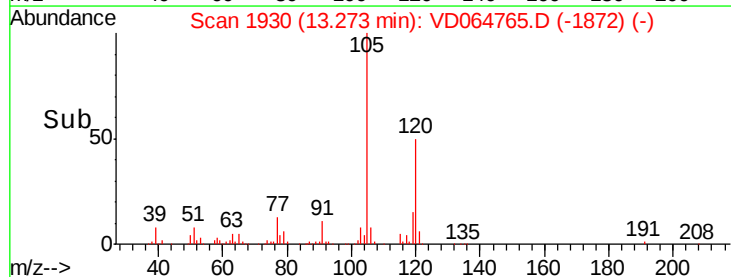
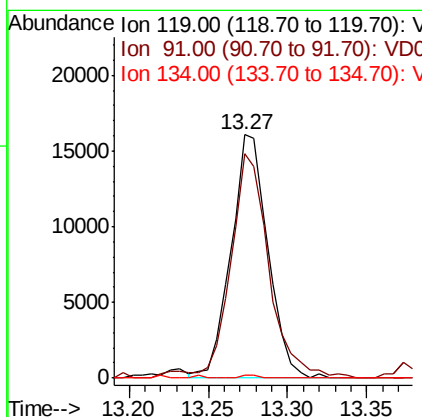
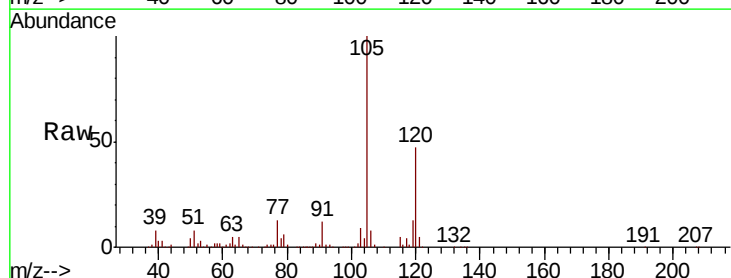
Instrument :
MSVOA_D
ClientSampleId :

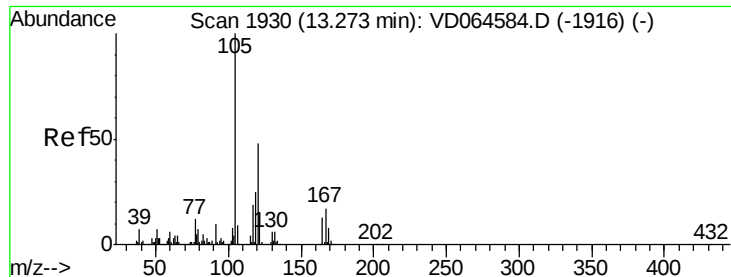
Tot Ion: 75 Resp: 108162
Ion Ratio Lower Upper
75 100
53 0.0 78.8 118.2#
89 0.2 38.3 57.5#



#83
tert-Butylbenzene
Concen: 2.362 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.04 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

Tgt Ion: 119 Resp: 25860
Ion Ratio Lower Upper
119 100
91 97.0 30.8 92.4#
134 0.0 12.8 38.3#





#84

1,2,4-Trimethylbenzene

Concen: 16.755 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.01 min

Lab File: VD064765.D

Acq: 04 Jan 2020 07:22

Instrument :

MSVOA_D

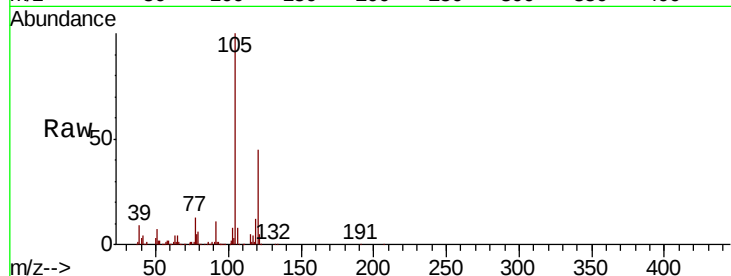
ClientSampleId :

Tot Ion:105 Resp: 210421

Ion Ratio Lower Upper

105 100

120 46.1 23.8 71.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

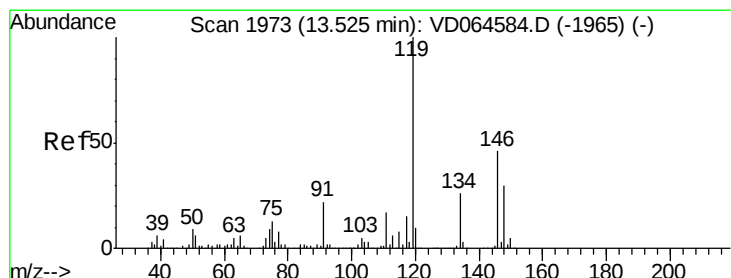
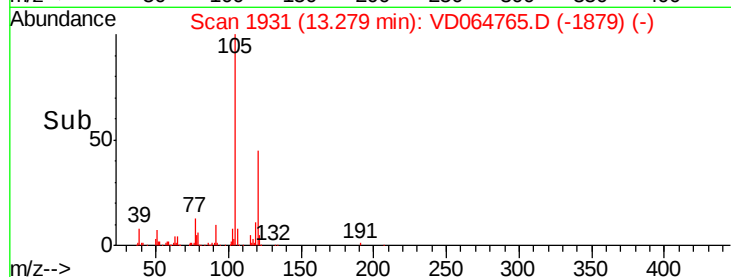
13.28

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 3.774 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064765.D

Acq: 04 Jan 2020 07:22

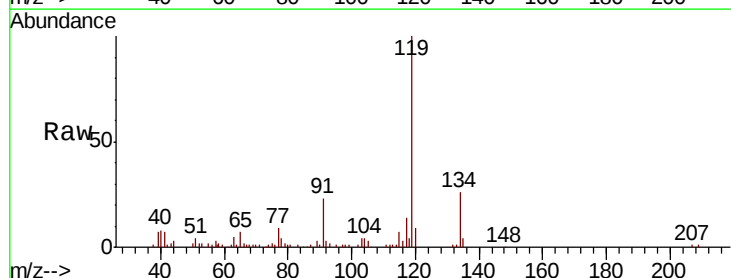
Tgt Ion:119 Resp: 54162

Ion Ratio Lower Upper

119 100

134 26.2 13.4 40.1

91 23.5 11.2 33.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.53

40000

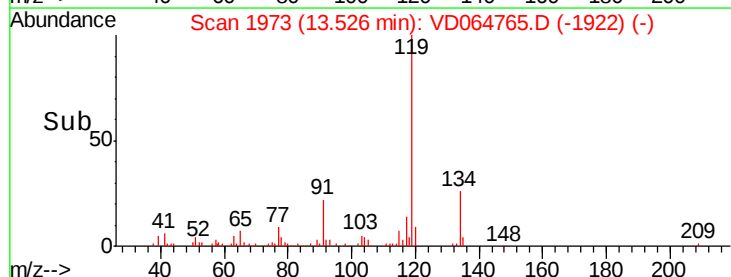
30000

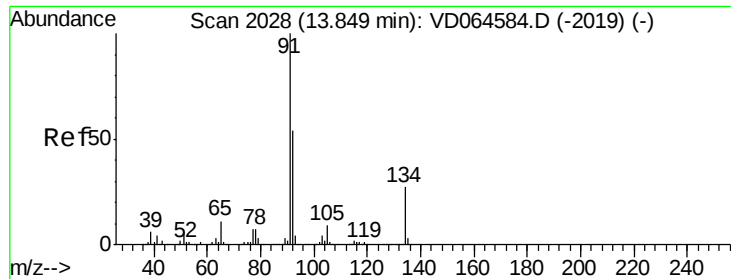
20000

10000

0

Time-->

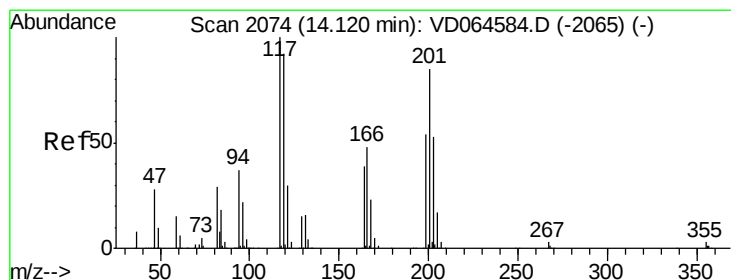
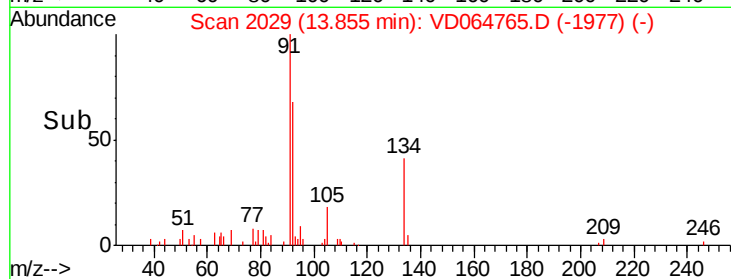
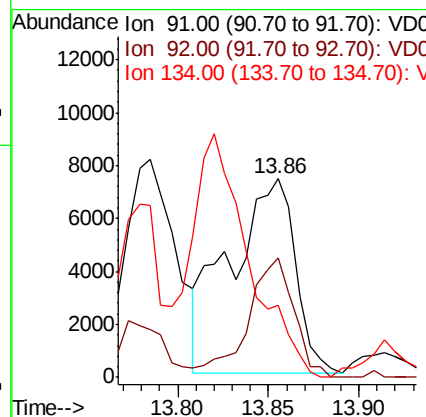
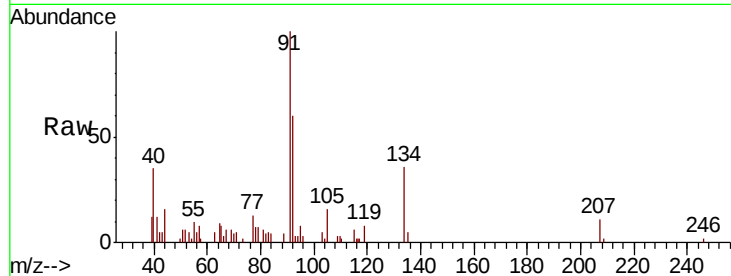




#89
n-Butylbenzene
Concen: 1.428 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

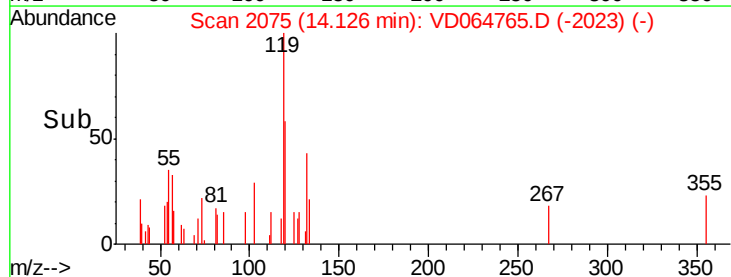
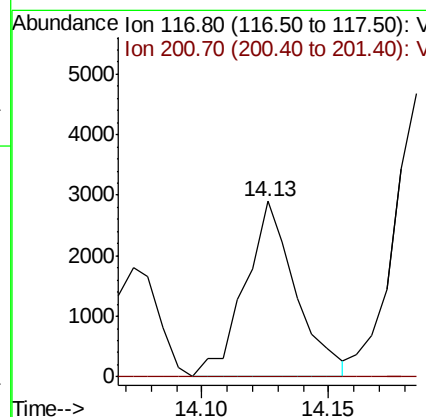
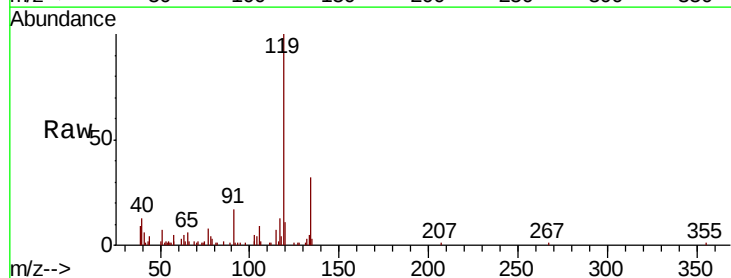
Instrument :
MSVOA_D
ClientSampleId :

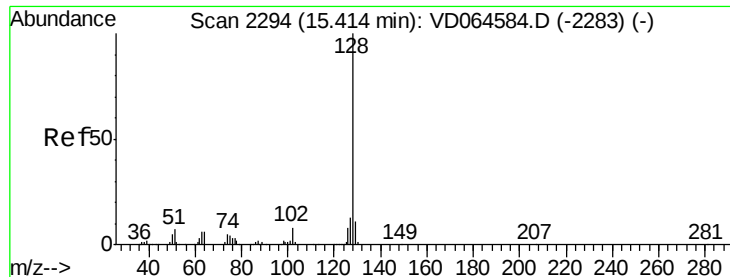
Tot Ion: 91 Resp: 18456
Ion Ratio Lower Upper
91 100
92 43.1 26.8 80.4
134 0.0 14.0 41.9#



#90
Hexachloroethane
Concen: 1.485 ug/l
RT: 14.13 min Scan# 2075
Delta R.T. 0.01 min
Lab File: VD064765.D
Acq: 04 Jan 2020 07:22

Tgt Ion: 117 Resp: 4071
Ion Ratio Lower Upper
117 100
201 0.0 44.0 131.8#





#95

Naphthalene

Concen: 2.209 ug/l

RT: 15.42 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VD064765.D

Acq: 04 Jan 2020 07:22

Instrument :

MSVOA_D

ClientSampleId :

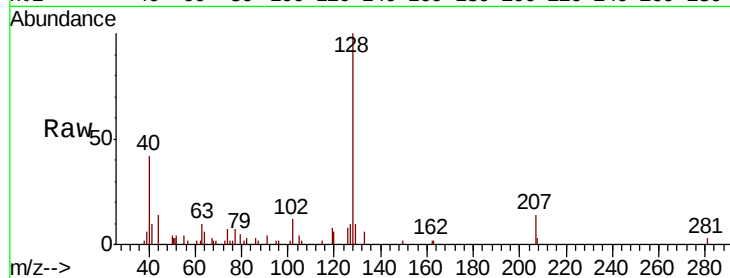
Tot Ion:128 Resp: 15775

Ion Ratio Lower Upper

128 100

127 15.0 10.3 15.5

129 14.2 8.5 12.7#



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

