

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012420\
 Data File : VD064946.D
 Acq On : 24 Jan 2020 16:40
 Operator : VA/SY
 Sample : L1243-09RE
 Misc : 7.055.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 25 02:39:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	371452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	614680	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	557257	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	218771	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	186165	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	
35) Dibromofluoromethane	7.92	113	148501	38.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.88%	
50) Toluene-d8	10.34	98	736835	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.64	95	222426	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	

Target Compounds

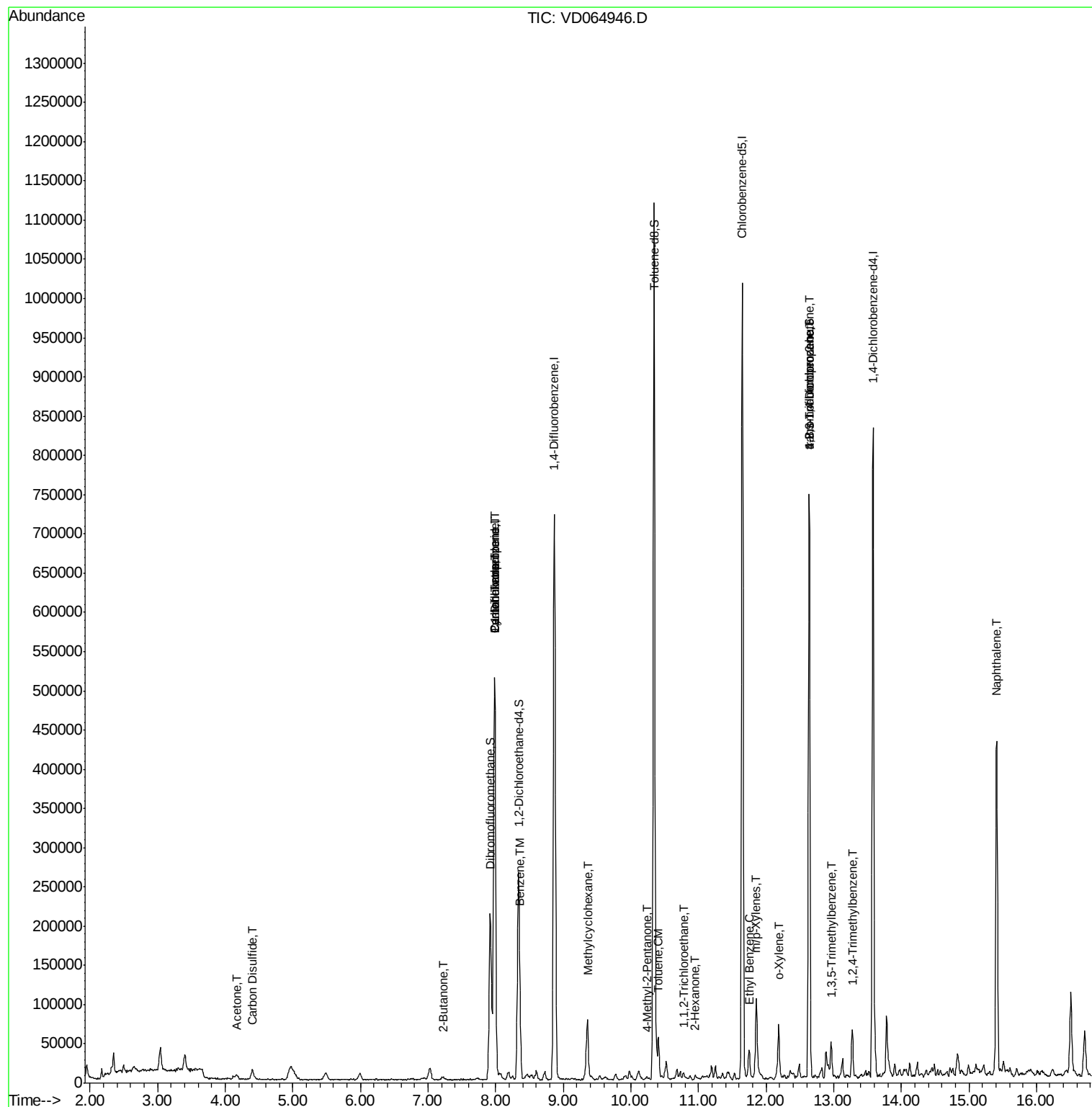
						Qvalue
16) Acetone	4.17	43	10491	23.813	ug/l	98
17) Carbon Disulfide	4.40	76	25672	2.412	ug/l #	92
20) Methylene Chloride	4.97	84	10233	Below Cal	#	78
25) 2-Butanone	7.22	43	1317	1.368	ug/l #	49
31) Cyclohexane	7.98	56	22420	3.612	ug/l #	72
36) 1,1-Dichloropropene	7.98	75	27726	4.678	ug/l #	52
38) Carbon Tetrachloride	7.98	117	36468	5.821	ug/l #	18
39) Methylcyclohexane	9.36	83	27891	4.025	ug/l	99
40) Benzene	8.36	78	60359	3.697	ug/l	98
51) 4-Methyl-2-Pentanone	10.24	43	2626	1.128	ug/l #	78
52) Toluene	10.41	92	19638	1.866	ug/l	93
55) 1,1,2-Trichloroethane	10.78	97	3012	1.035	ug/l #	18
59) 2-Hexanone	10.96	43	2569	1.601	ug/l #	25
67) Ethyl Benzene	11.75	91	22894	1.140	ug/l	98
68) m/p-Xylenes	11.86	106	27712	3.583	ug/l	99
69) o-Xylene	12.18	106	18023	2.626	ug/l	97
76) 1,2,3-Trichloropropane	12.64	75	119786	65.968	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.97	105	17131	1.398	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.64	75	119786	140.857	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.28	105	34003	2.739	ug/l	99
95) Naphthalene	15.41	128	374151	56.231	ug/l	99

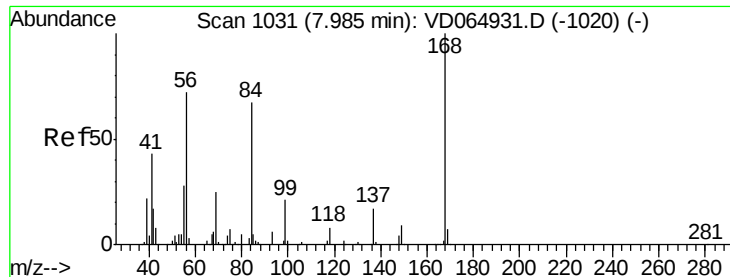
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

Instrument :

MSVOA_D

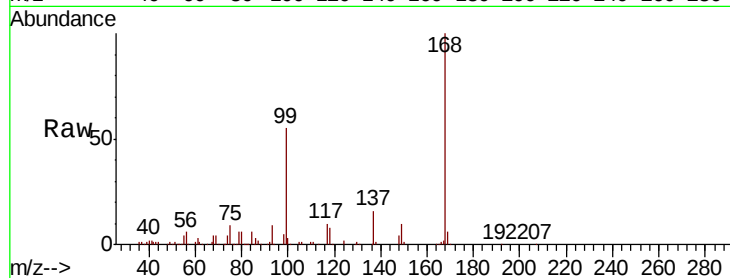
ClientSampleId :

Tot Ion:168 Resp: 371452

Ion Ratio Lower Upper

168 100

99 55.1 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

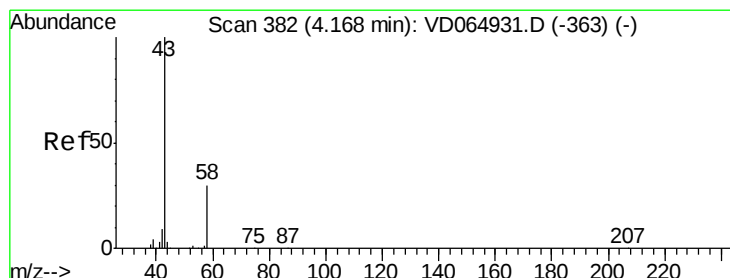
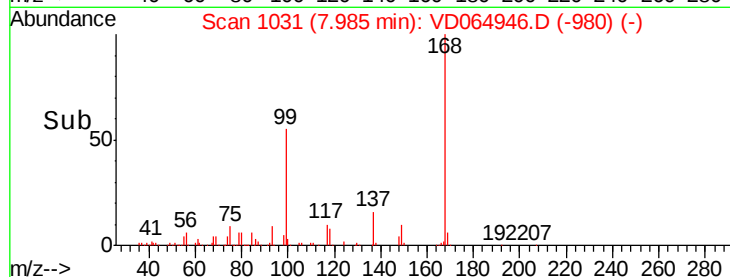
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 23.813 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064946.D

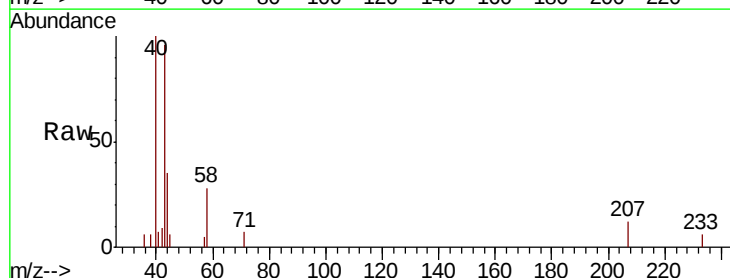
Acq: 24 Jan 2020 16:40

Tgt Ion: 43 Resp: 10491

Ion Ratio Lower Upper

43 100

58 29.0 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

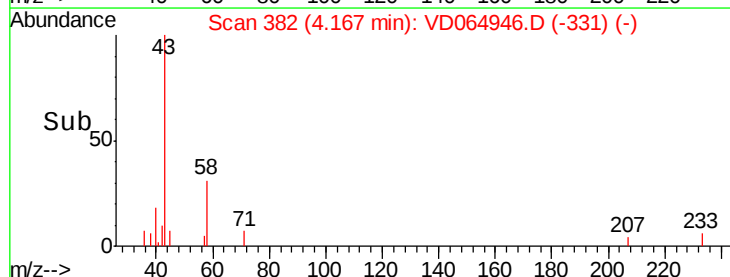
3000

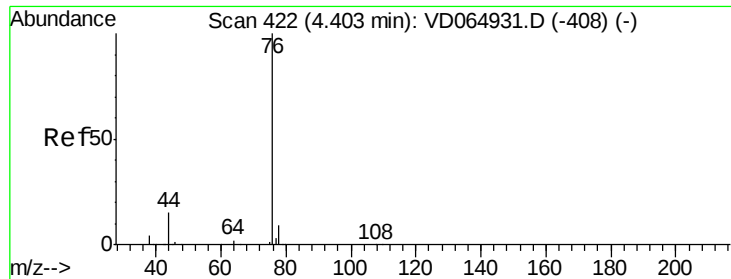
2000

1000

0

Time-->





#17

Carbon Disulfide

Concen: 2.412 ug/l

RT: 4.40 min Scan# 421

Delta R.T. -0.01 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

Instrument :

MSVOA_D

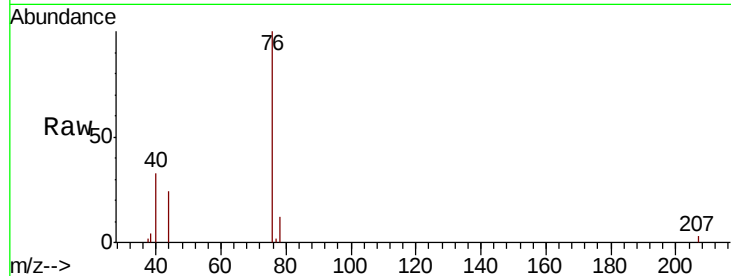
ClientSampleId :

Tot Ion: 76 Resp: 25672

Ion Ratio Lower Upper

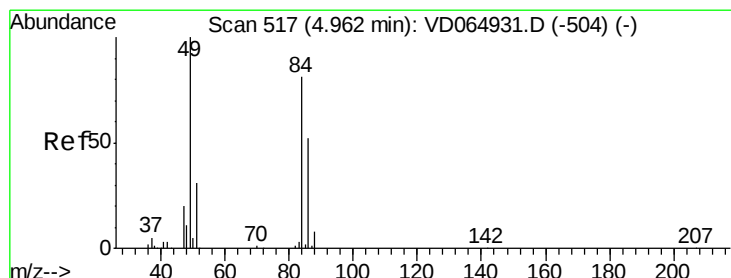
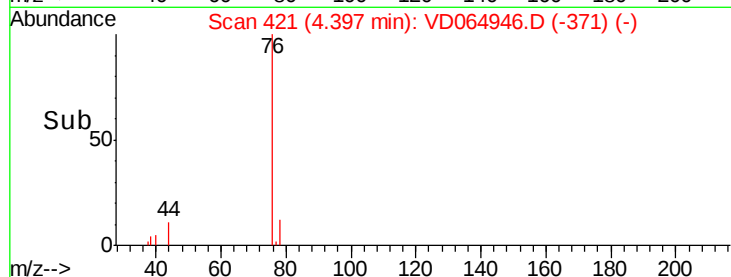
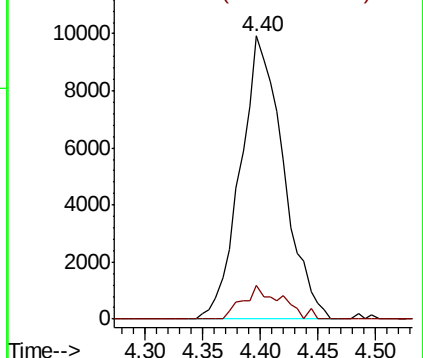
76 100

78 11.8 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

Tgt Ion: 84 Resp: 10233

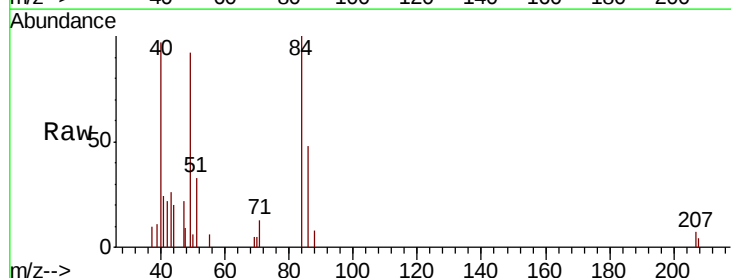
Ion Ratio Lower Upper

84 100

49 92.0 98.4 147.6#

51 33.0 30.8 46.2

86 48.4 51.0 76.6#

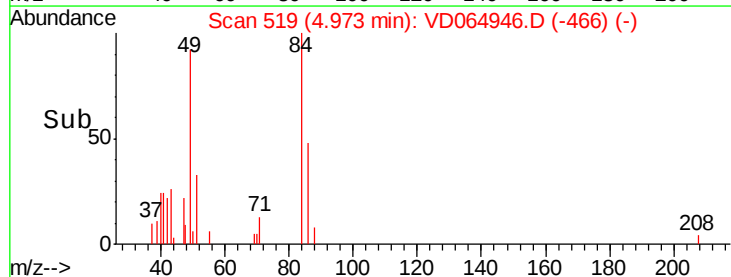
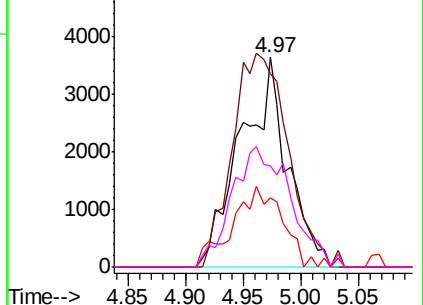


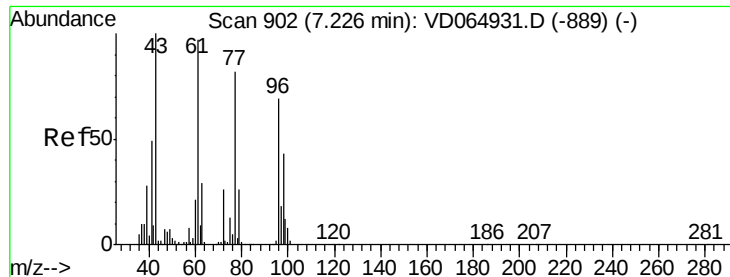
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

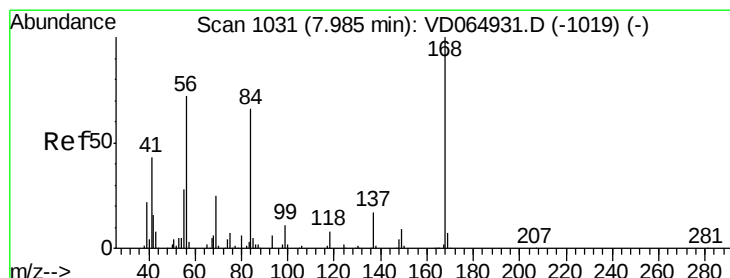
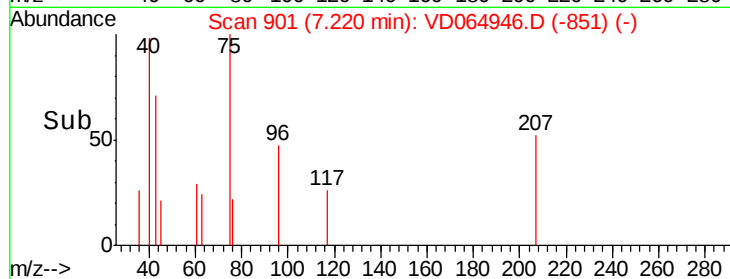
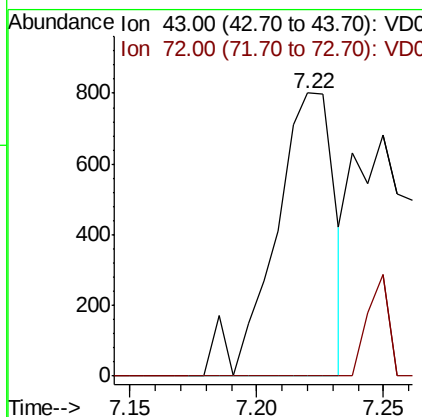
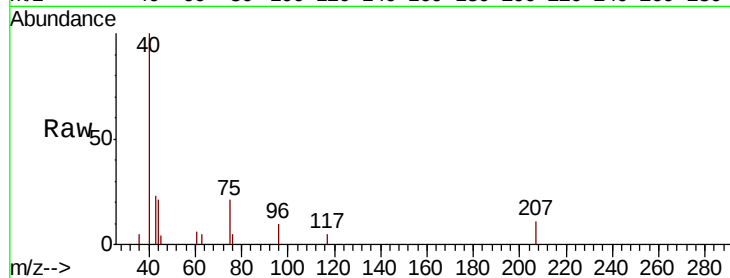




#25
2-Butanone
Concen: 1.368 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.01 min
Lab File: VD064946.D
Acq: 24 Jan 2020 16:40

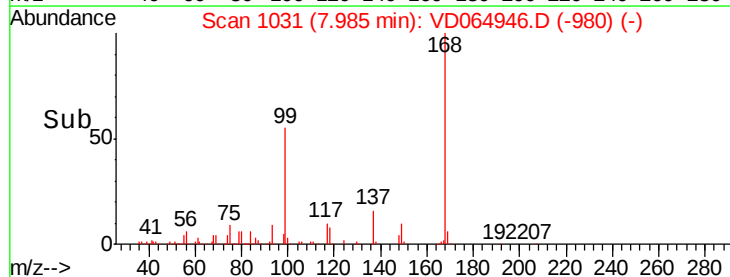
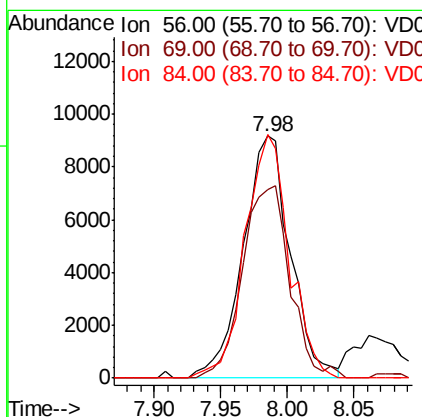
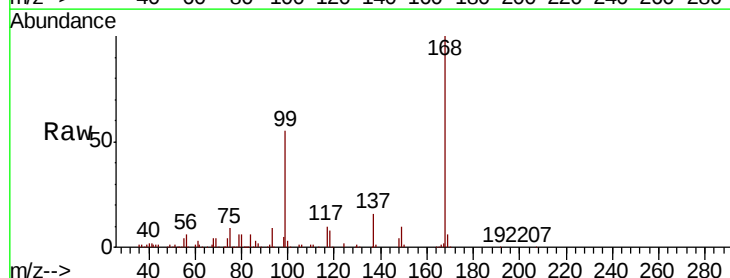
Instrument :
MSVOA_D
ClientSampled :

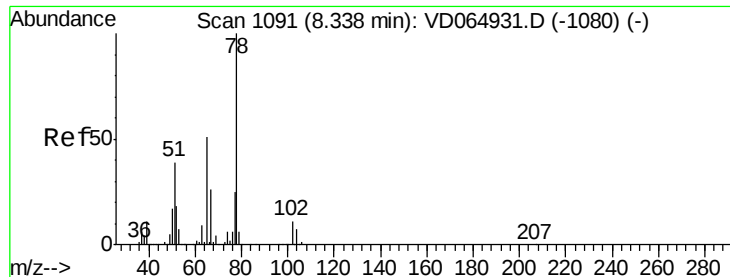
Tot Ion: 43 Resp: 1317
Ion Ratio Lower Upper
43 100
72 0.0 20.6 31.0#



#31
Cyclohexane
Concen: 3.612 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064946.D
Acq: 24 Jan 2020 16:40

Tgt Ion: 56 Resp: 22420
Ion Ratio Lower Upper
56 100
69 78.1 27.9 41.9#
84 100.5 72.8 109.2





#33

1,2-Dichloroethane-d4

Concen: 52.249 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

Instrument :

MSVOA_D

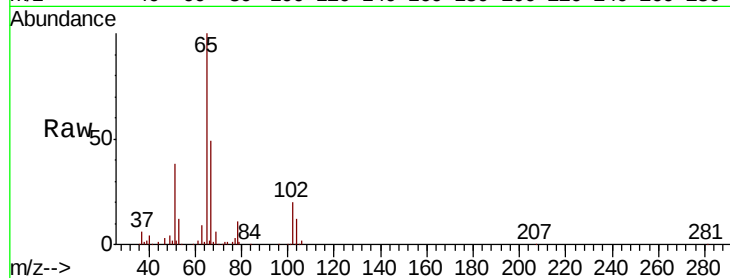
ClientSampleId :

Tot Ion: 65 Resp: 186165

Ion Ratio Lower Upper

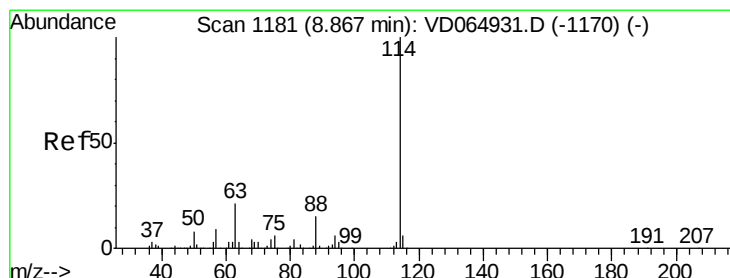
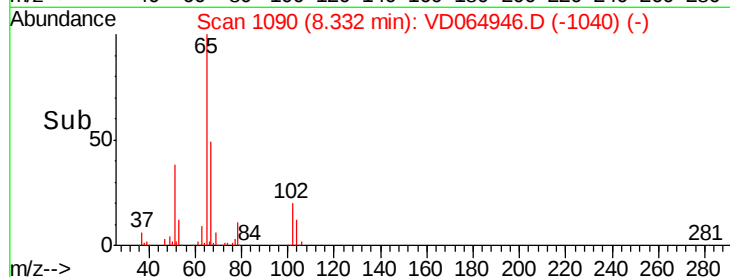
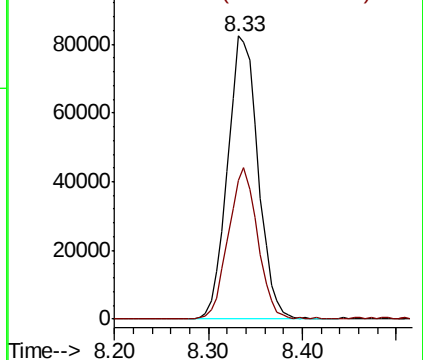
65 100

67 51.3 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

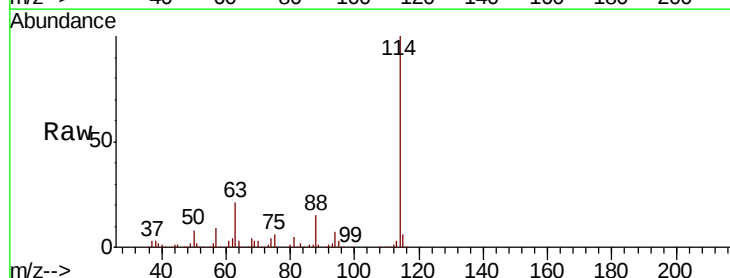
Tgt Ion:114 Resp: 614680

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.0

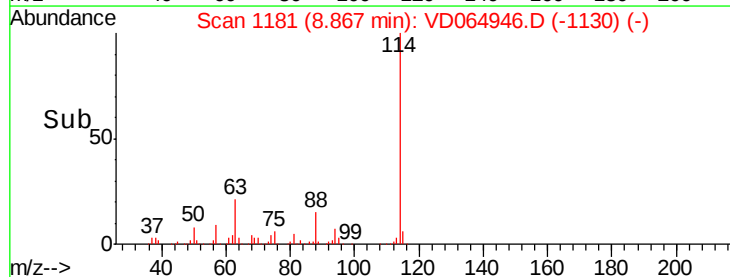
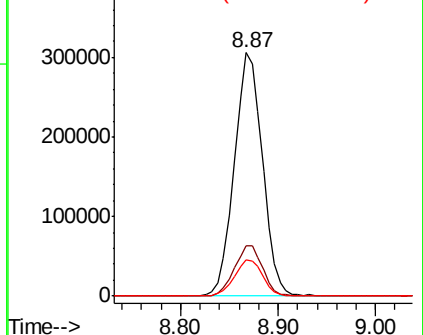
88 14.7 0.0 29.4

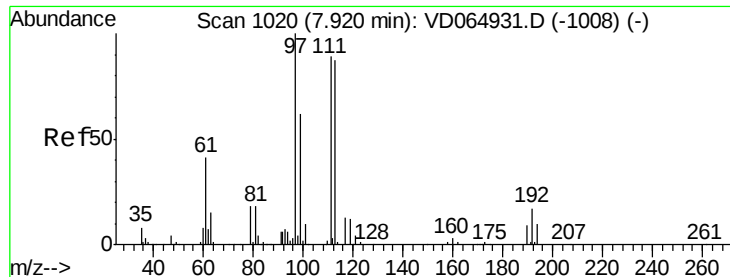


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

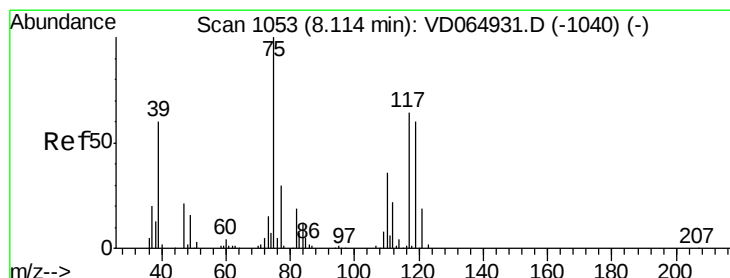
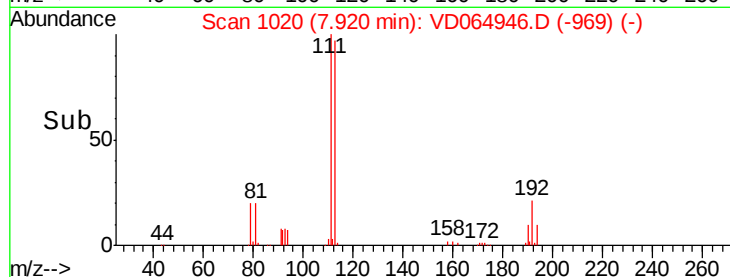
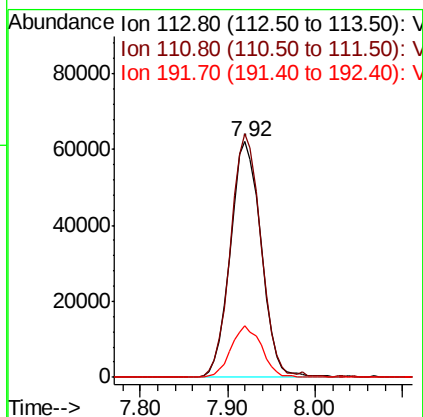
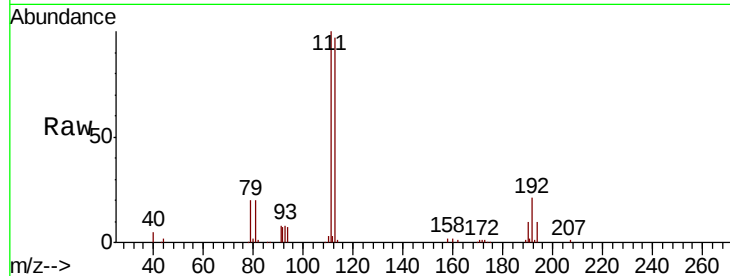




#35
Dibromofluoromethane
Concen: 38.445 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD064946.D
Acq: 24 Jan 2020 16:40

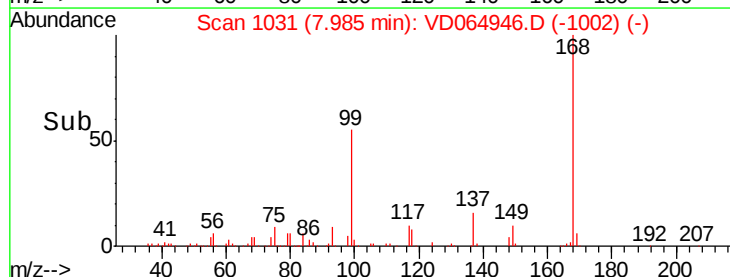
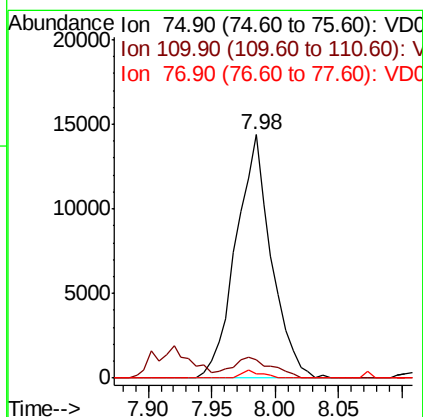
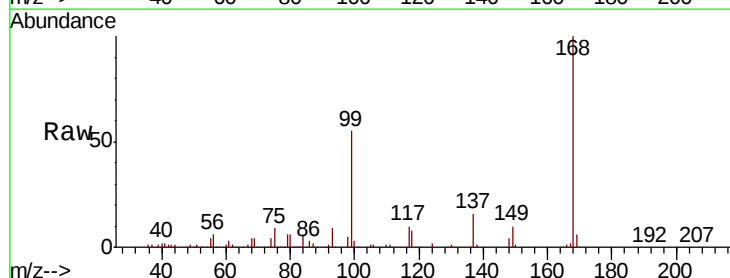
Instrument :
MSVOA_D
ClientSampleId :

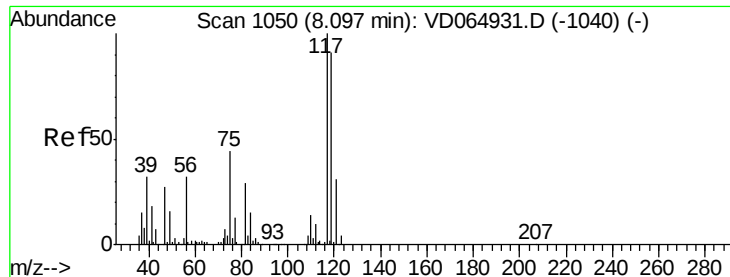
Tot Ion:113 Resp: 148501
Ion Ratio Lower Upper
113 100
111 102.3 82.4 123.6
192 21.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.678 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.13 min
Lab File: VD064946.D
Acq: 24 Jan 2020 16:40

Tgt Ion: 75 Resp: 27726
Ion Ratio Lower Upper
75 100
110 9.3 17.3 52.0#
77 1.8 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.821 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

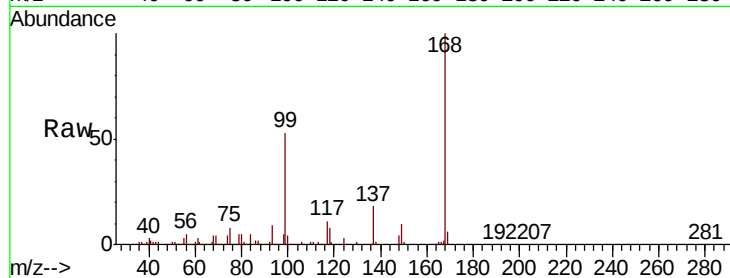
Tot Ion:117 Resp: 36468

Ion Ratio Lower Upper

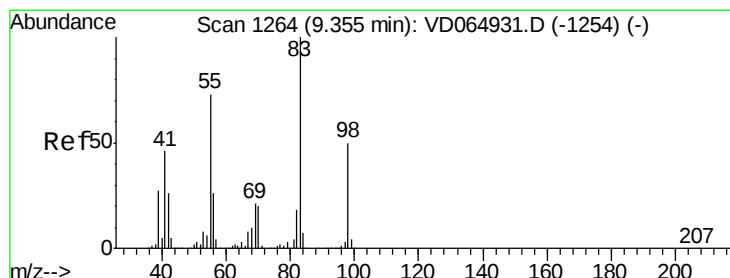
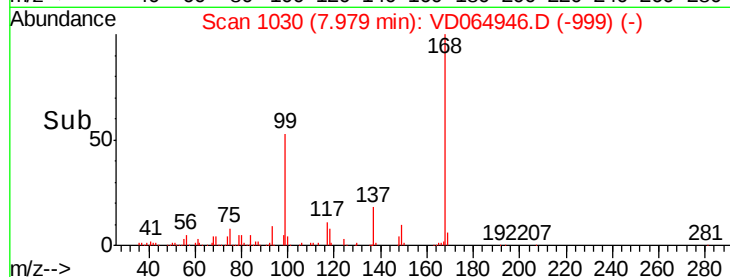
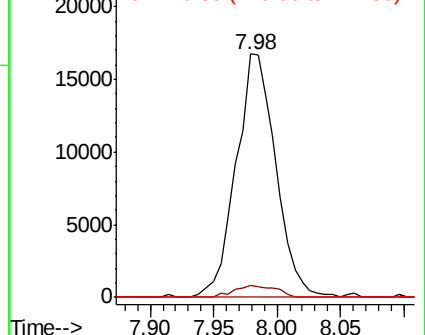
117 100

119 5.0 73.2 109.8#

121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 4.025 ug/l

RT: 9.36 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

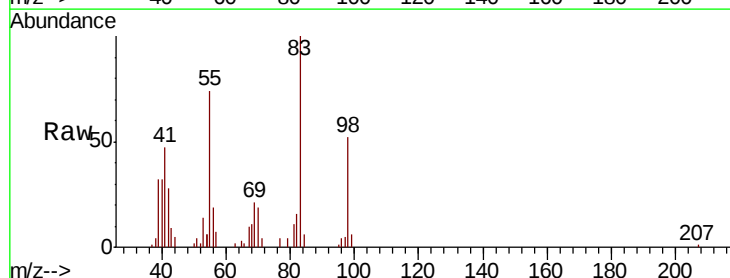
Tgt Ion: 83 Resp: 27891

Ion Ratio Lower Upper

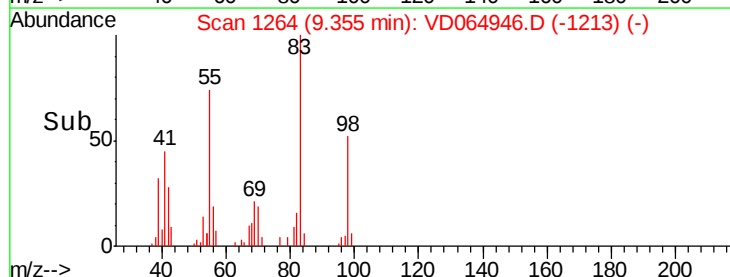
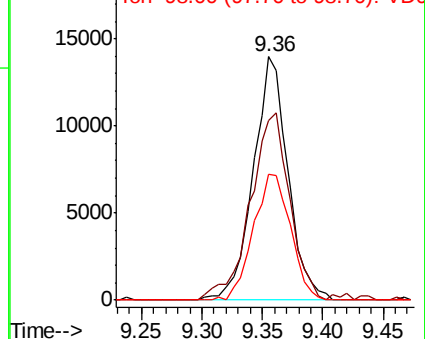
83 100

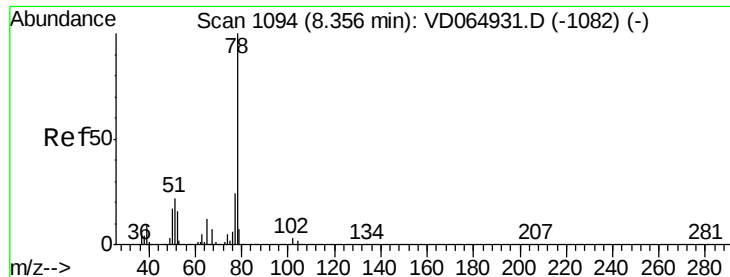
55 73.7 58.7 88.1

98 51.6 40.2 60.2



Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC





#40

Benzene

Concen: 3.697 ug/l

RT: 8.36 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

Instrument :

MSVOA_D

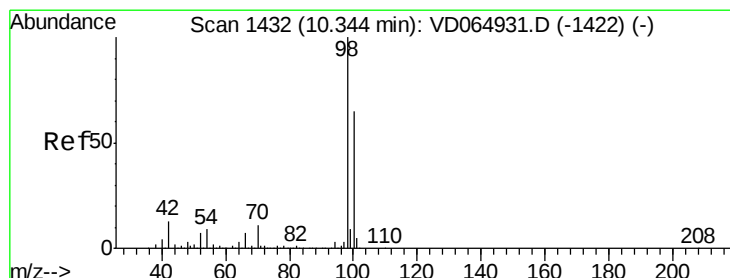
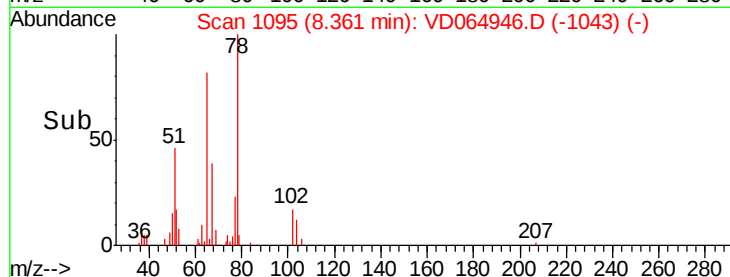
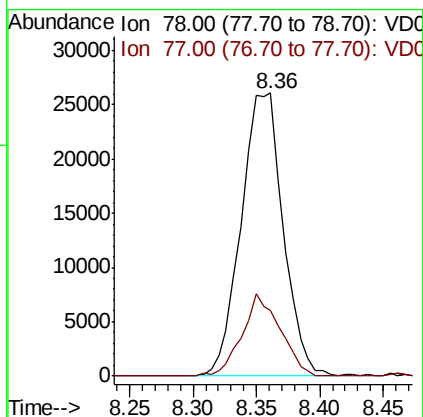
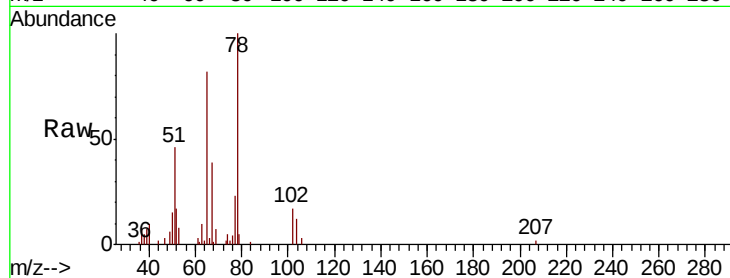
ClientSampleId :

Tot Ion: 78 Resp: 60359

Ion Ratio Lower Upper

78 100

77 23.2 19.2 28.8



#50

Toluene-d8

Concen: 49.423 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064946.D

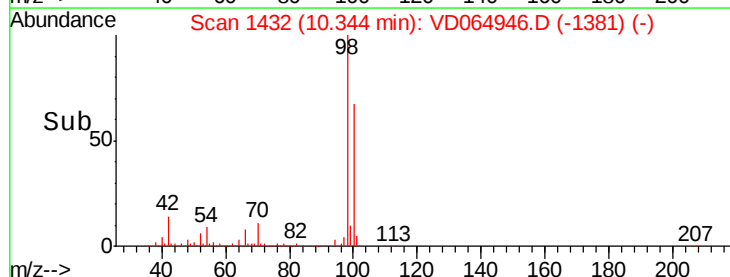
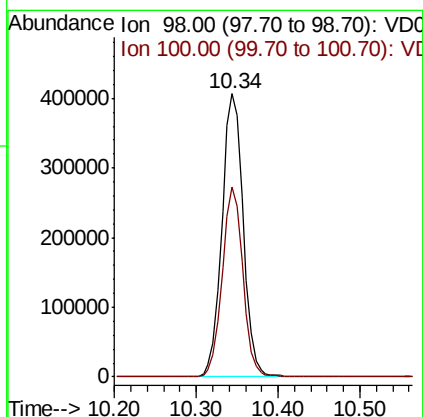
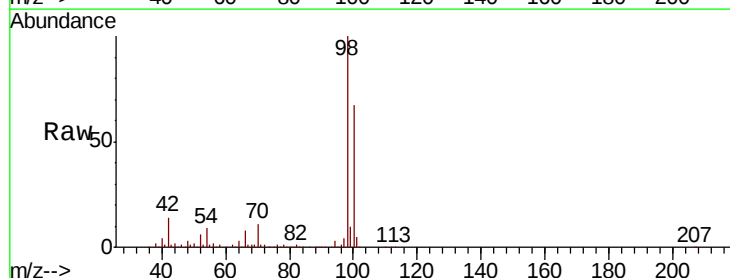
Acq: 24 Jan 2020 16:40

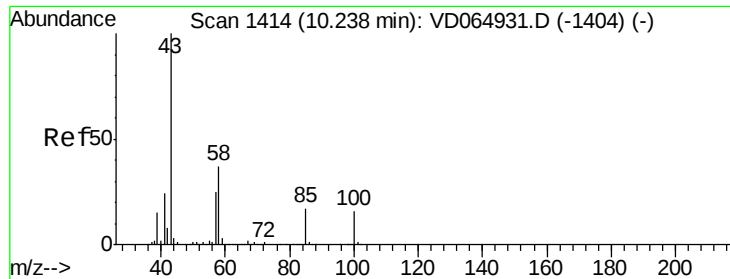
Tgt Ion: 98 Resp: 736835

Ion Ratio Lower Upper

98 100

100 65.0 52.3 78.5

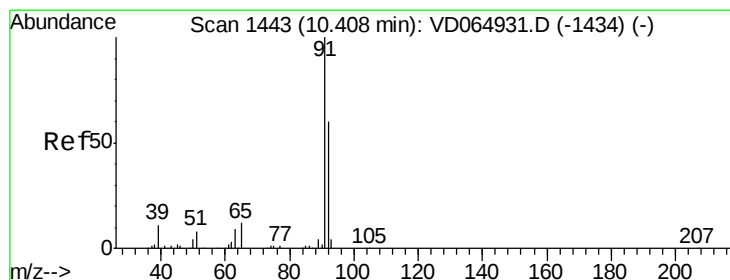
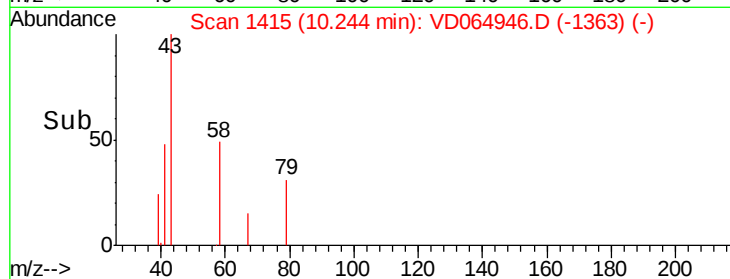
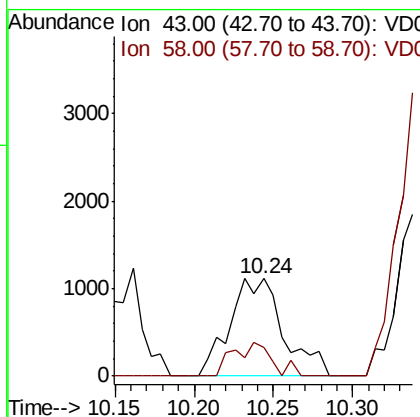
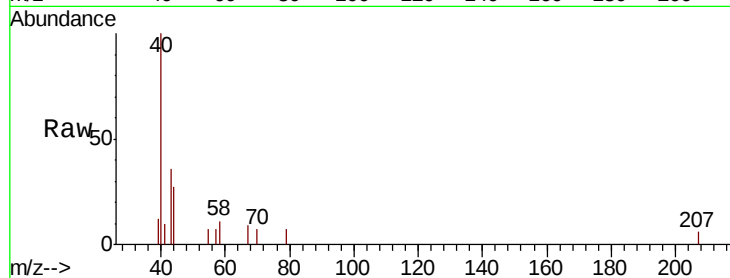




#51
 4-Methyl-2-Pentanone
 Concen: 1.128 ug/l
 RT: 10.24 min Scan# 1415
 Delta R.T. 0.01 min
 Lab File: VD064946.D
 Acq: 24 Jan 2020 16:40

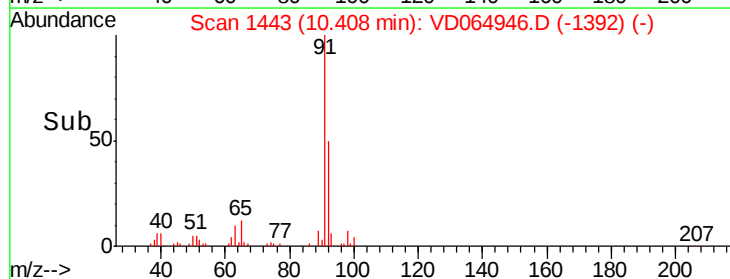
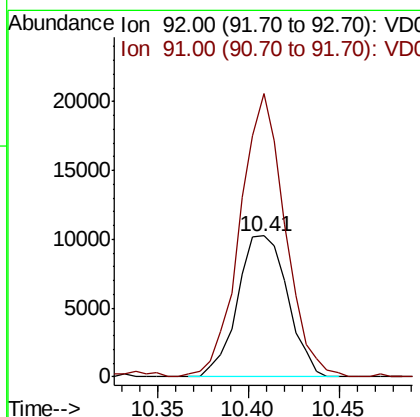
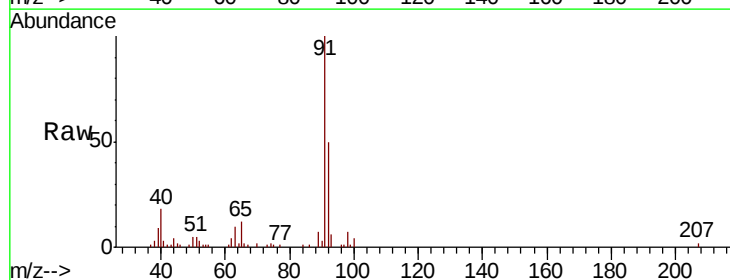
Instrument :
 MSVOA_D
 ClientSampleId :

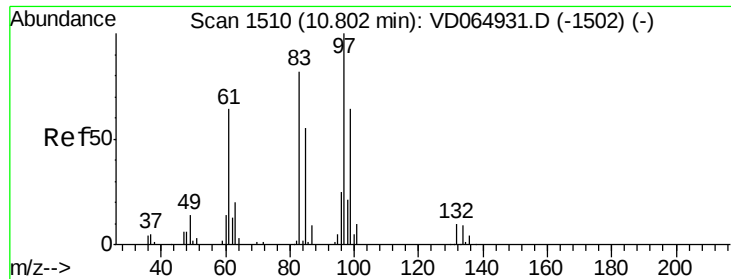
Tot Ion: 43 Resp: 2626
 Ion Ratio Lower Upper
 43 100
 58 24.6 30.4 45.6#



#52
 Toluene
 Concen: 1.866 ug/l
 RT: 10.41 min Scan# 1443
 Delta R.T. -0.00 min
 Lab File: VD064946.D
 Acq: 24 Jan 2020 16:40

Tgt Ion: 92 Resp: 19638
 Ion Ratio Lower Upper
 92 100
 91 181.3 136.8 205.2

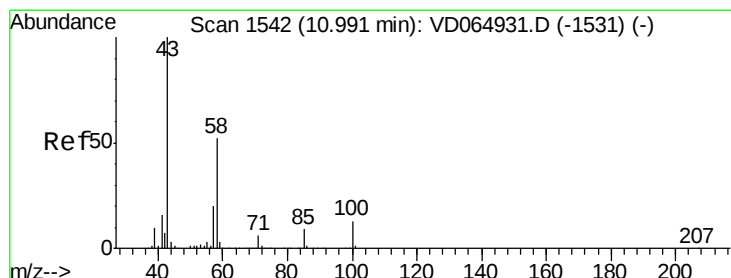
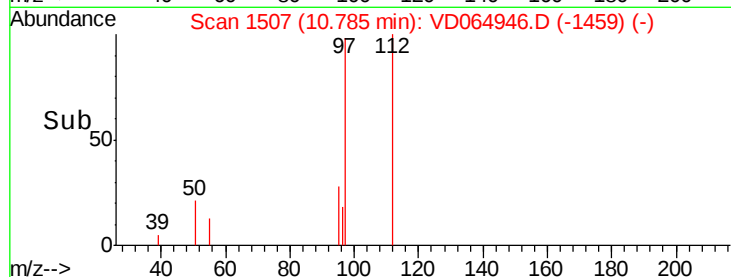
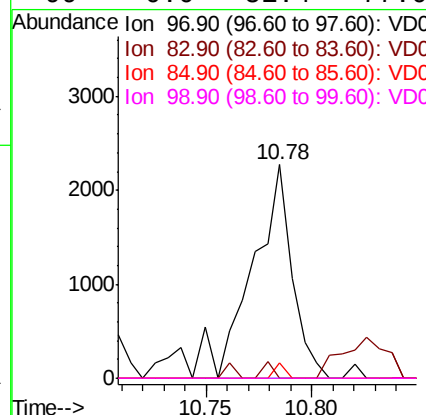
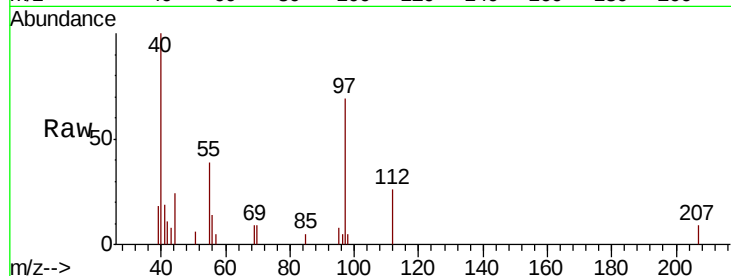




#55
 1,1,2-Trichloroethane
 Concen: 1.035 ug/l
 RT: 10.78 min Scan# 1507
 Delta R.T. -0.02 min
 Lab File: VD064946.D
 Acq: 24 Jan 2020 16:40

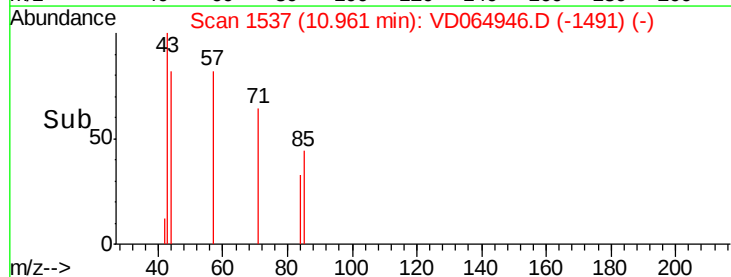
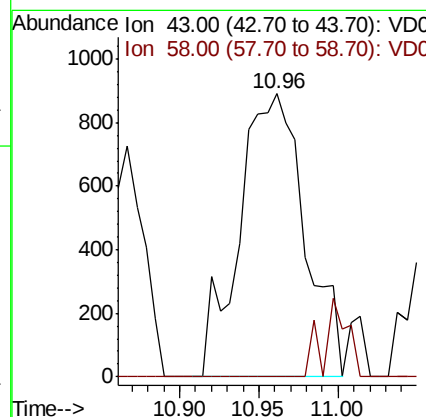
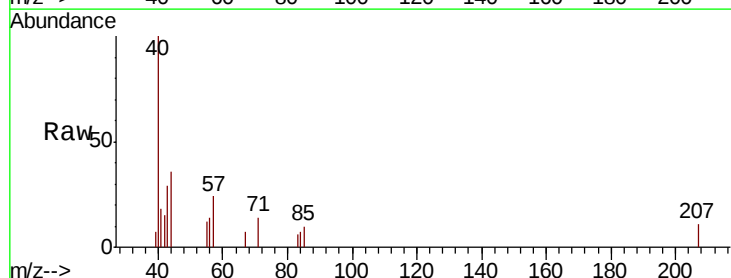
Instrument :
 MSVOA_D
 ClientSampleId :

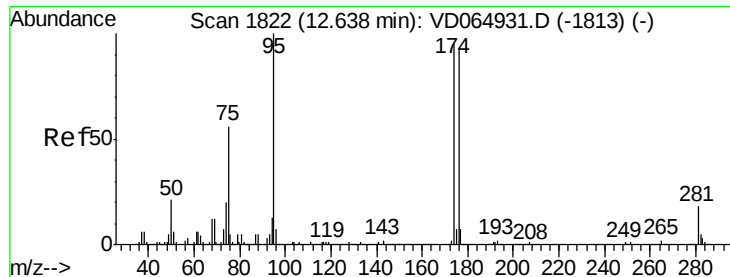
Tot Ion: 97 Resp: 3012
 Ion Ratio Lower Upper
 97 100
 83 0.0 66.0 99.0#
 85 7.4 44.4 66.6#
 99 0.0 51.4 77.0#



#59
 2-Hexanone
 Concen: 1.601 ug/l
 RT: 10.96 min Scan# 1537
 Delta R.T. -0.03 min
 Lab File: VD064946.D
 Acq: 24 Jan 2020 16:40

Tgt Ion: 43 Resp: 2569
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.5 79.4#





#62

4-Bromofluorobenzene

Concen: 48.752 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

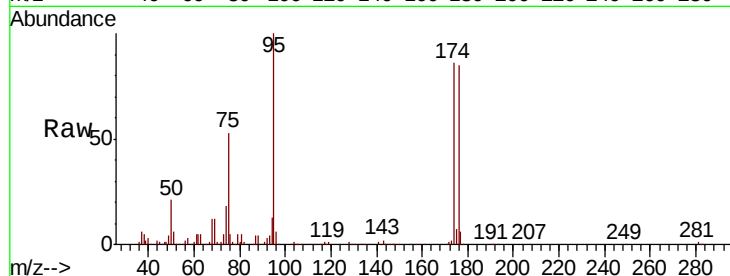
Tot Ion: 95 Resp: 222426

Ion Ratio Lower Upper

95 100

174 92.2 0.0 186.8

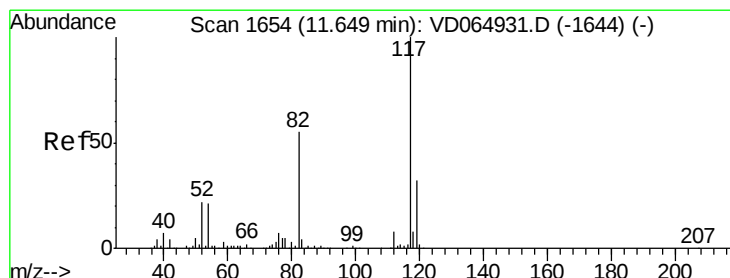
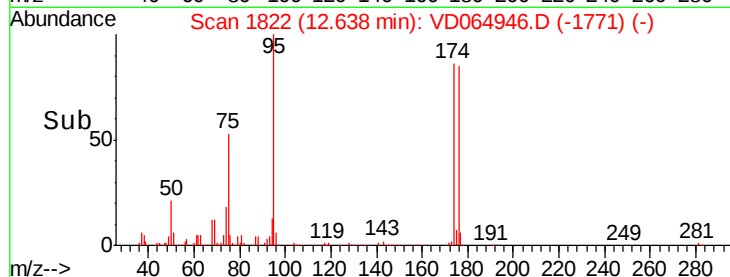
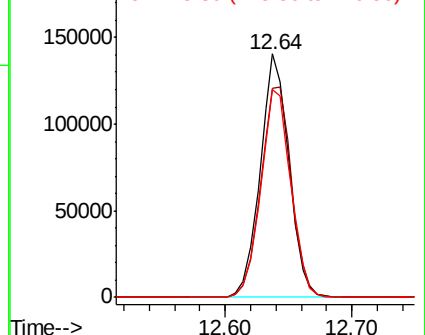
176 88.6 0.0 183.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

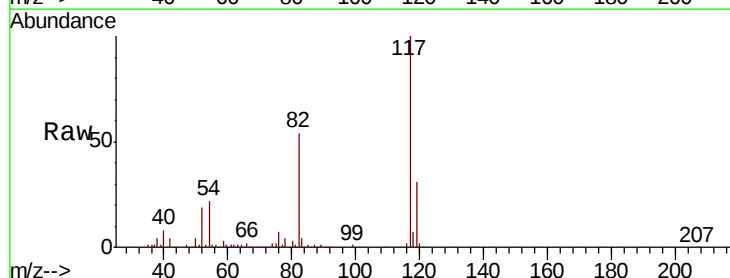
Tgt Ion: 117 Resp: 557257

Ion Ratio Lower Upper

117 100

82 54.3 43.6 65.4

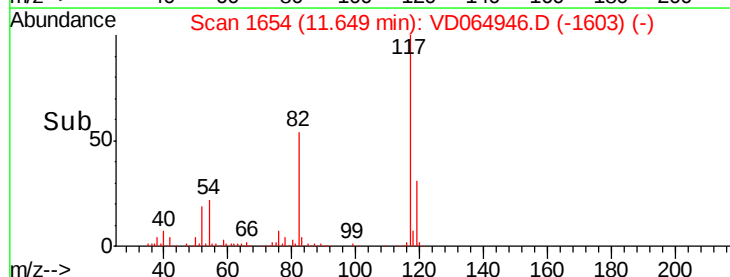
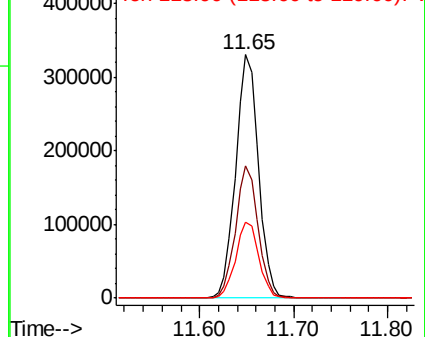
119 31.1 25.2 37.8

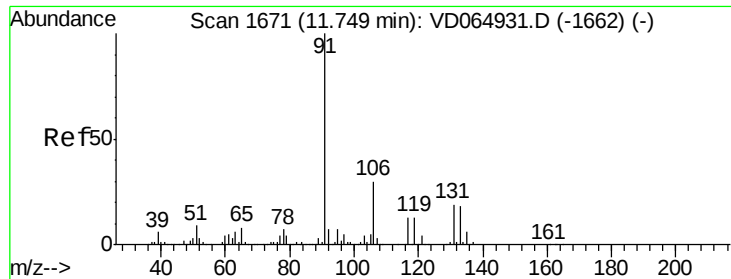


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

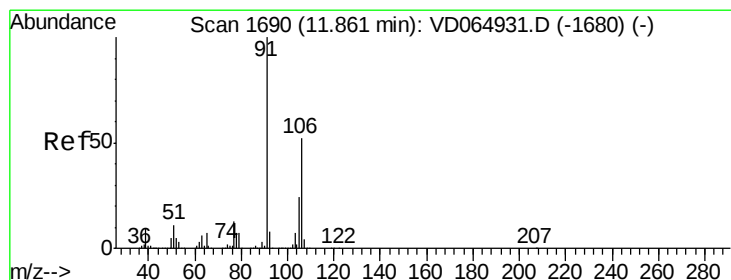
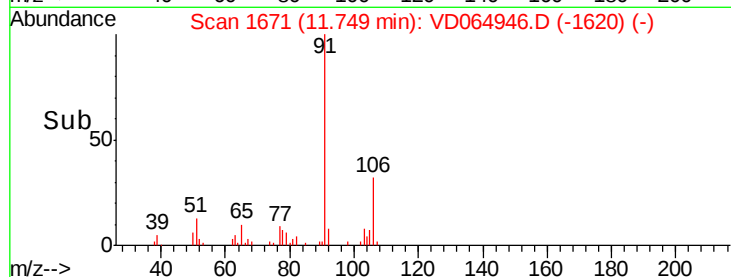
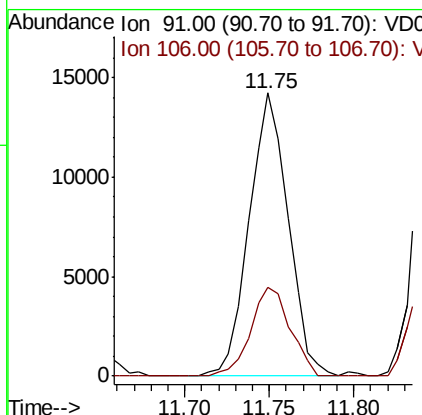
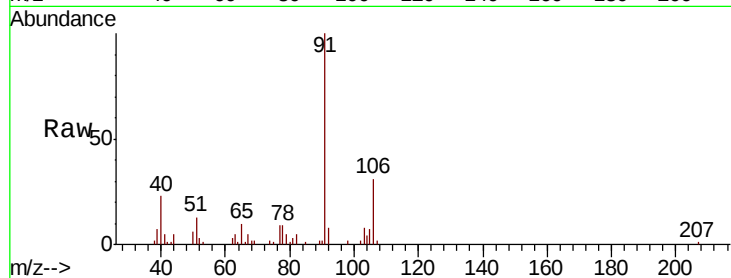




#67
Ethyl Benzene
Concen: 1.140 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD064946.D
Acq: 24 Jan 2020 16:40

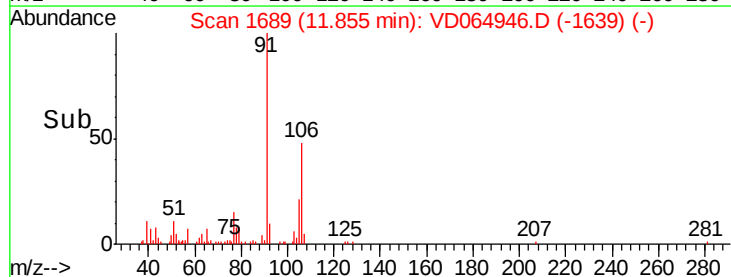
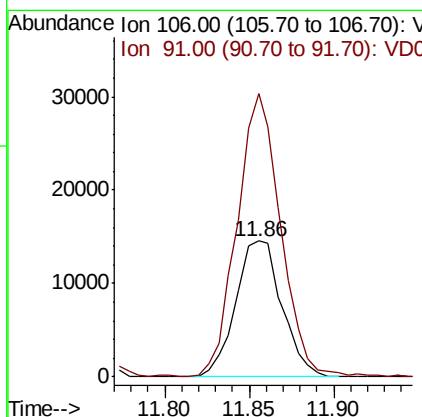
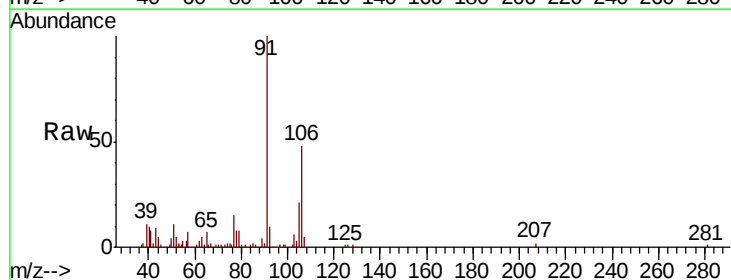
Instrument :
MSVOA_D
ClientSampleId :

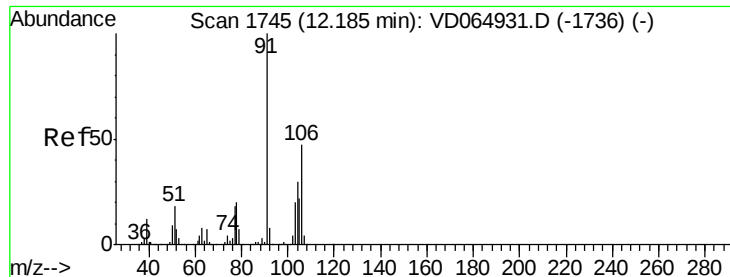
Tot Ion: 91 Resp: 22894
Ion Ratio Lower Upper
91 100
106 31.3 24.3 36.5



#68
m/p-Xylenes
Concen: 3.583 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VD064946.D
Acq: 24 Jan 2020 16:40

Tgt Ion: 106 Resp: 27712
Ion Ratio Lower Upper
106 100
91 197.3 159.0 238.4

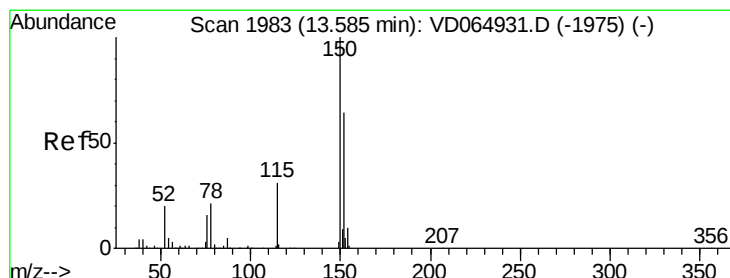
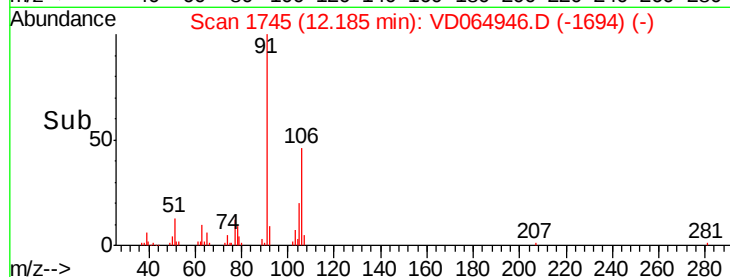
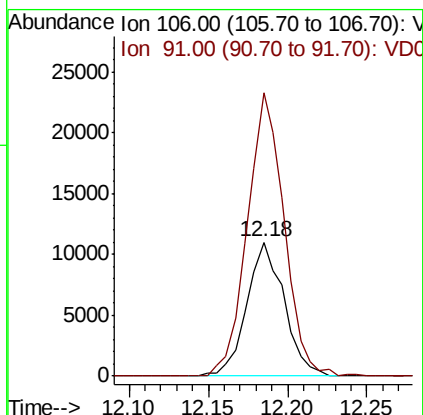
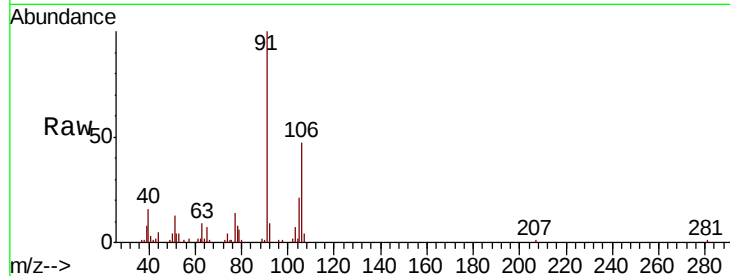




#69
o-Xylene
Concen: 2.626 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064946.D
Acq: 24 Jan 2020 16:40

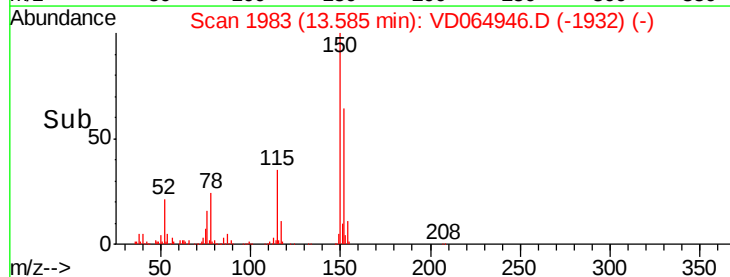
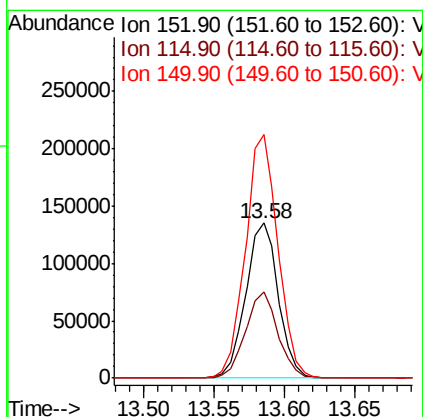
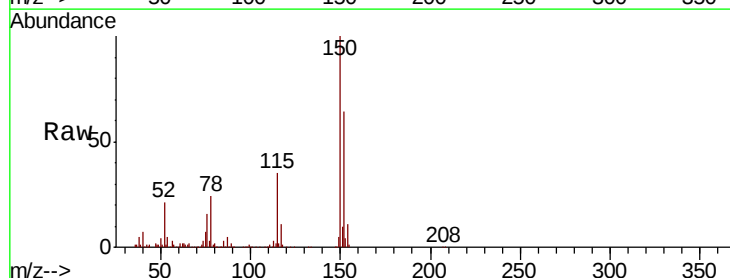
Instrument :
MSVOA_D
ClientSampled :

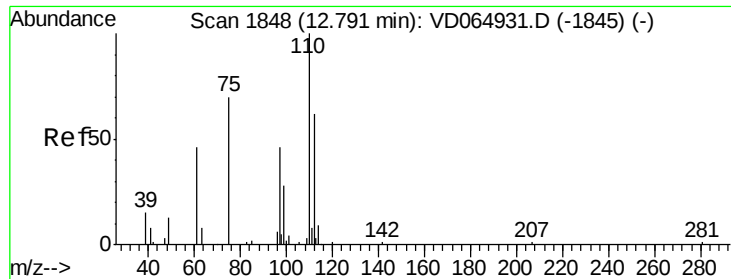
Tot Ion:106 Resp: 18023
Ion Ratio Lower Upper
106 100
91 208.2 106.7 319.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD064946.D
Acq: 24 Jan 2020 16:40

Tgt Ion:152 Resp: 218771
Ion Ratio Lower Upper
152 100
115 55.2 28.1 84.4
150 156.4 0.0 350.4

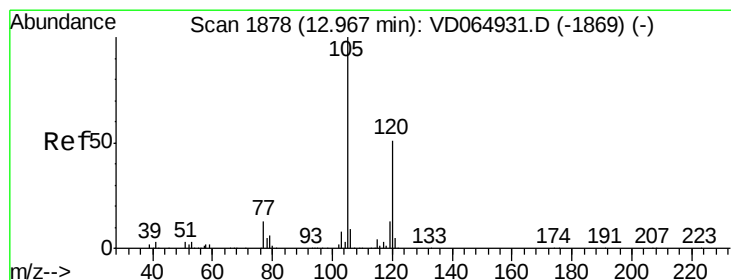
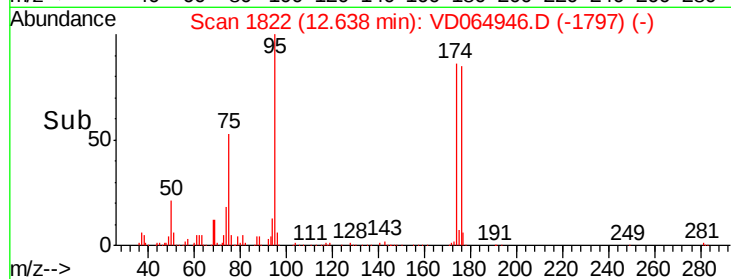
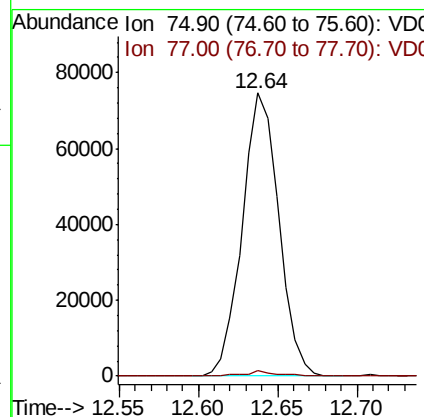
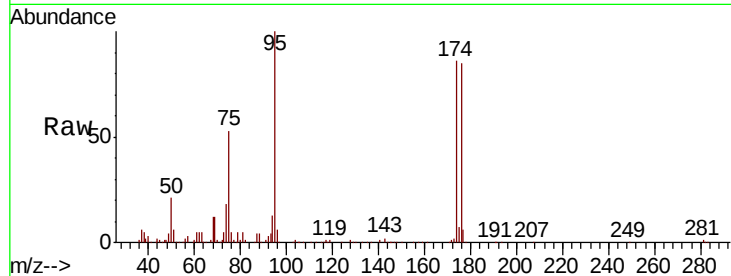




#76
 1,2,3-Trichloropropane
 Concen: 65.968 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064946.D
 Acq: 24 Jan 2020 16:40

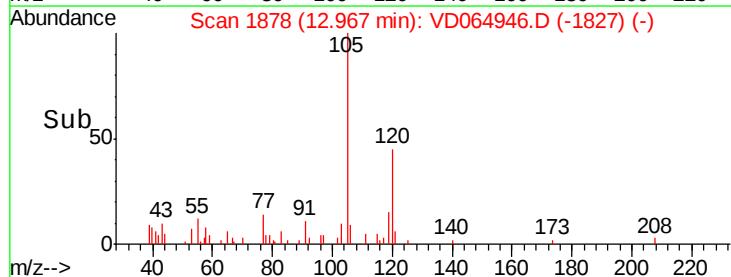
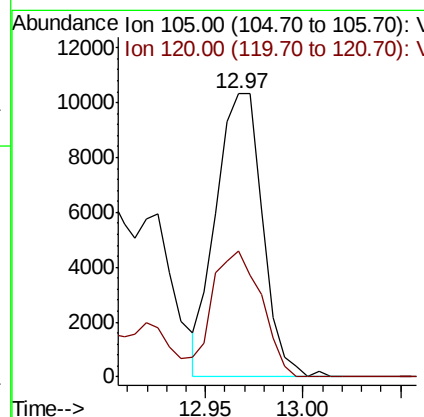
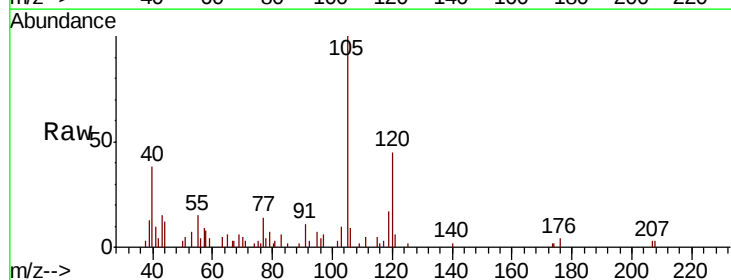
Instrument :
 MSVOA_D
 ClientSampleId :

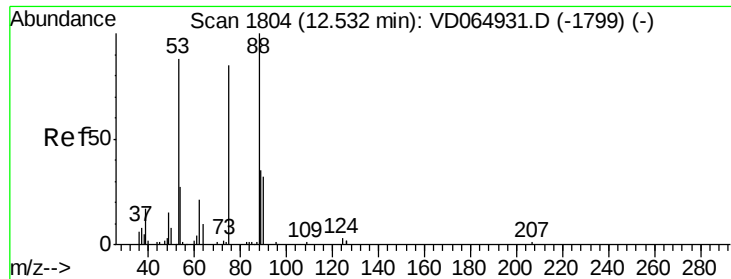
Tot Ion: 75 Resp: 119786
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.398 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. -0.00 min
 Lab File: VD064946.D
 Acq: 24 Jan 2020 16:40

Tgt Ion: 105 Resp: 17131
 Ion Ratio Lower Upper
 105 100
 120 47.6 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 140.857 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

Instrument :

MSVOA_D

ClientSampled :

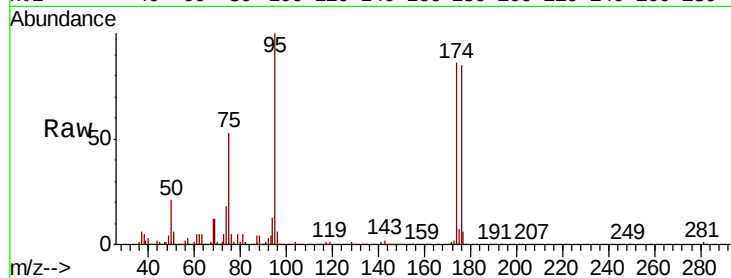
Tot Ion: 75 Resp: 119786

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.4#

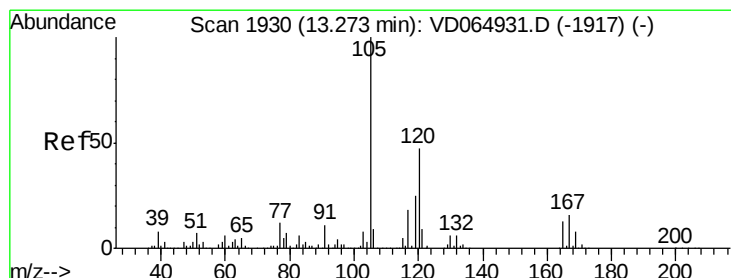
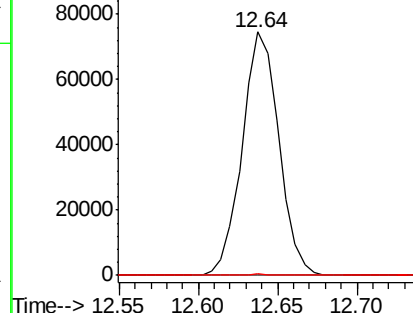
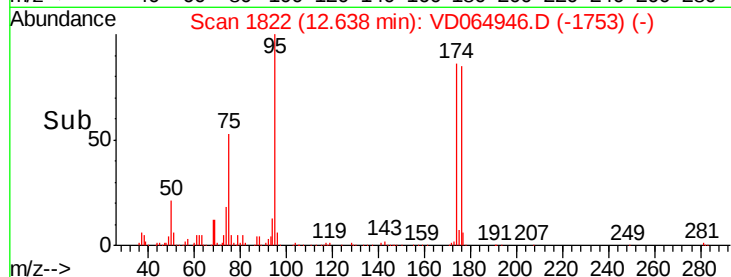
89 0.1 36.2 54.4#



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: 2.739 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.01 min

Lab File: VD064946.D

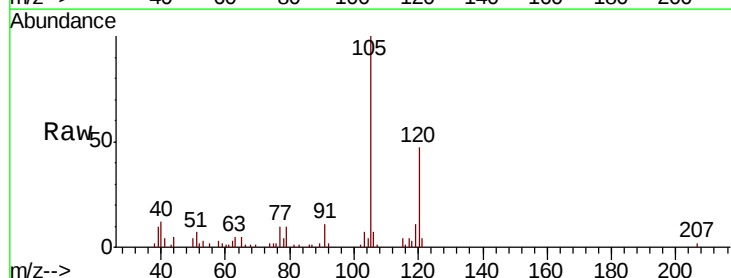
Acq: 24 Jan 2020 16:40

Tgt Ion: 105 Resp: 34003

Ion Ratio Lower Upper

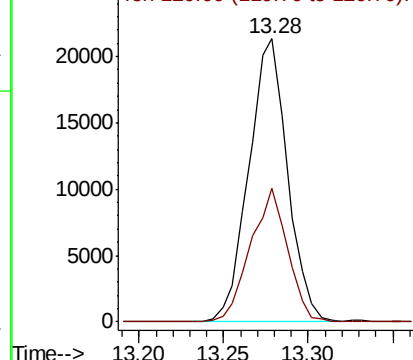
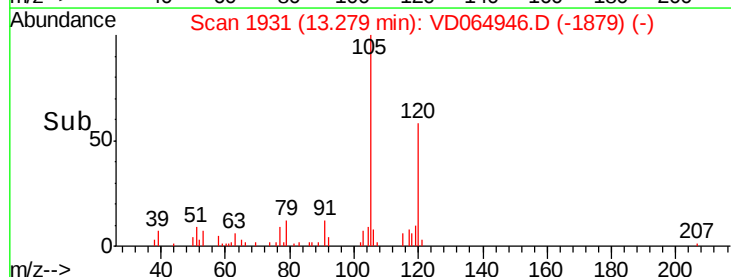
105 100

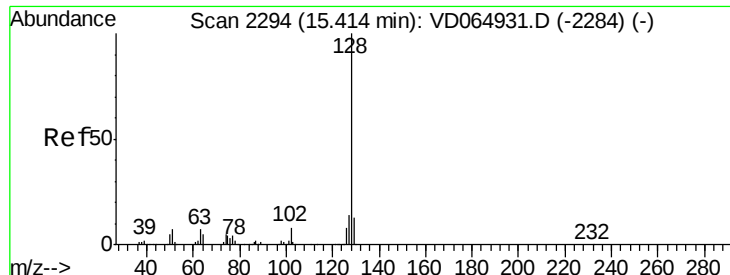
120 45.2 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 56.231 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD064946.D

Acq: 24 Jan 2020 16:40

Instrument :

MSVOA_D

ClientSampleId :

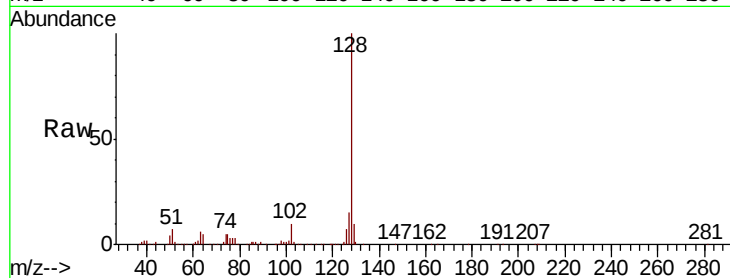
Tot Ion:128 Resp: 374151

Ion Ratio Lower Upper

128 100

127 13.5 10.6 15.8

129 10.7 9.3 13.9



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

