

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042419\
 Data File : VD062004.D
 Acq On : 24 Apr 2019 18:21
 Operator : VA/AP
 Sample : K2539-04RE
 Misc : 4.34g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 25 01:35:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	35560	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	65795	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	58827	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	21035	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	30111	108.19	ug/l	0.00
Spiked Amount			Recovery	=	216.38%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount			Recovery	=	0.00%	
50) Toluene-d8	10.41	98	47646	44.00	ug/l	0.00
Spiked Amount			Recovery	=	88.00%	
62) 4-Bromofluorobenzene	13.55	95	22582	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	431	5.258	ug/l #	12
16) Acetone	3.22	43	19355	291.259	ug/l #	85
20) Methylene Chloride	3.83	84	1720	2.273	ug/l #	62
25) 2-Butanone	6.07	43	3174	39.395	ug/l #	56
36) 1,1-Dichloropropene	7.05	75	2206	4.303	ug/l #	40
37) Ethyl Acetate	6.07	43	3174	14.530	ug/l #	64
38) Carbon Tetrachloride	7.05	117	3047	4.691	ug/l #	12
43) Isopropyl Acetate	8.90	43	400	1.253	ug/l #	43
51) 4-Methyl-2-Pentanone	10.31	43	602	3.084	ug/l #	37
52) Toluene	10.52	92	4613	5.701	ug/l	79
59) 2-Hexanone	11.55	43	445	3.039	ug/l #	27
68) m/p-Xylenes	12.67	106	1671	2.548	ug/l	90
69) o-Xylene	13.05	106	794	1.323	ug/l	90
74) N-amyl acetate	13.20	43	3661	10.131	ug/l #	49
80) 1,3,5-Trimethylbenzene	13.94	105	1433	1.281	ug/l	83
81) trans-1,4-Dichloro-2-buten	13.55	75	8788	108.567	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	6617	6.194	ug/l	91
85) sec-Butylbenzene	14.24	105	6617	4.725	ug/l #	60
95) Naphthalene	16.12	128	6323	12.482	ug/l	99

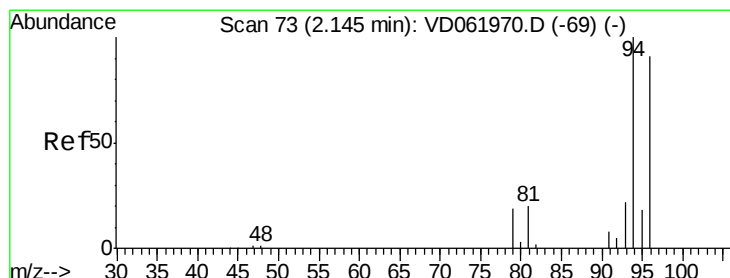
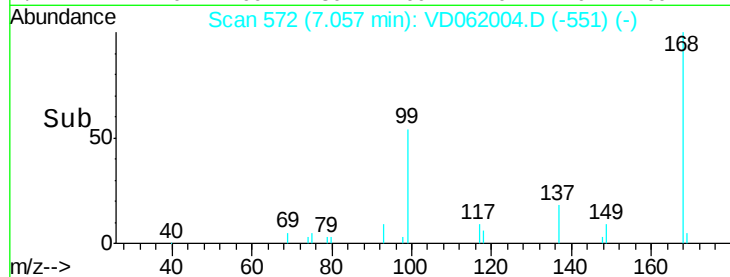
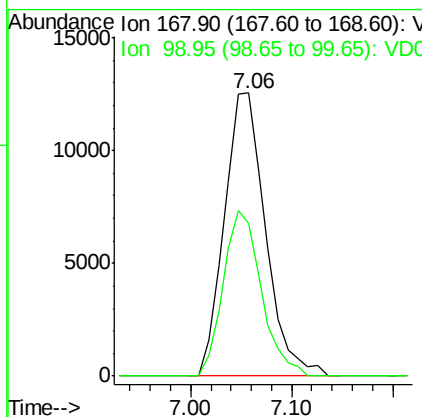
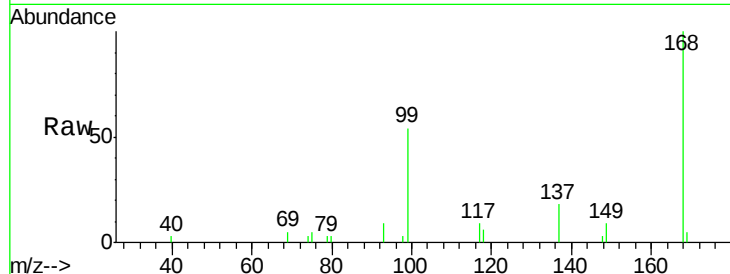
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.00 min
Lab File: VD062004.D
Acq: 24 Apr 2019 18:21

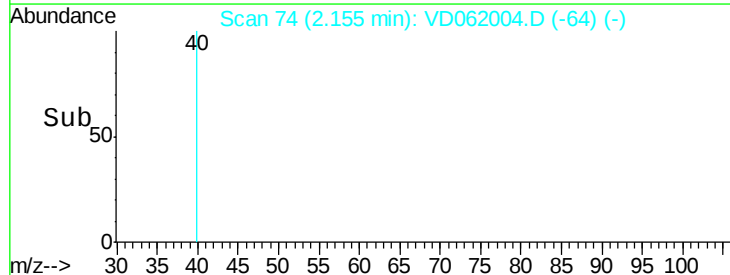
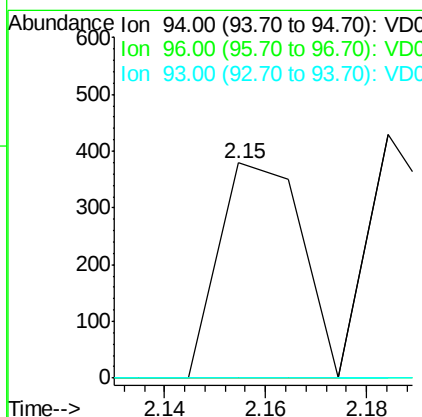
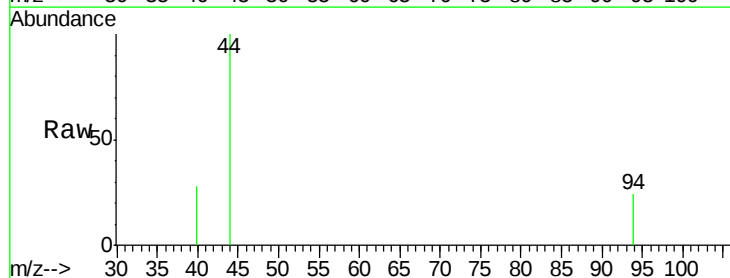
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 35560
Ion Ratio Lower Upper
168 100
99 54.1 46.5 69.7



#5
Bromomethane
Concen: 5.258 ug/l
RT: 2.15 min Scan# 74
Delta R.T. -0.00 min
Lab File: VD062004.D
Acq: 24 Apr 2019 18:21

Tgt Ion: 94 Resp: 431
Ion Ratio Lower Upper
94 100
96 0.0 76.6 115.0#
93 0.0 18.5 27.7#

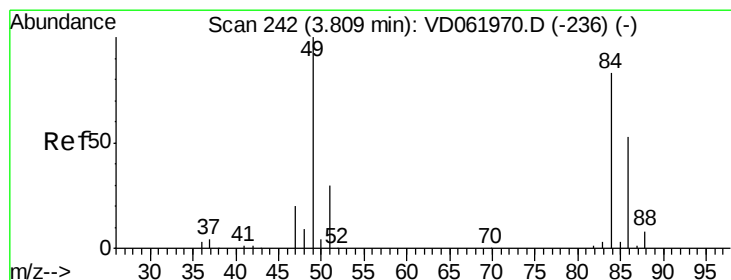
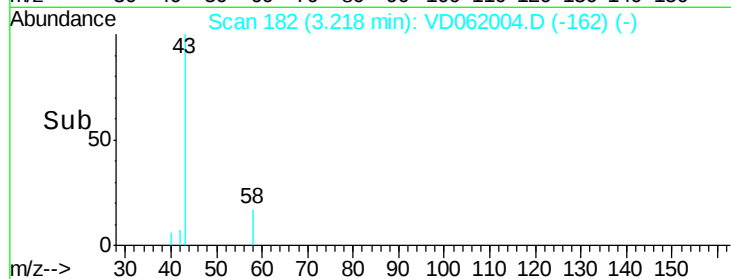
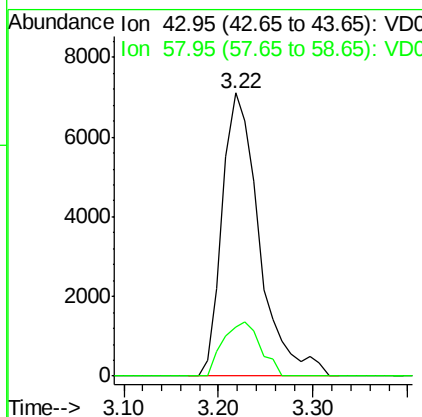
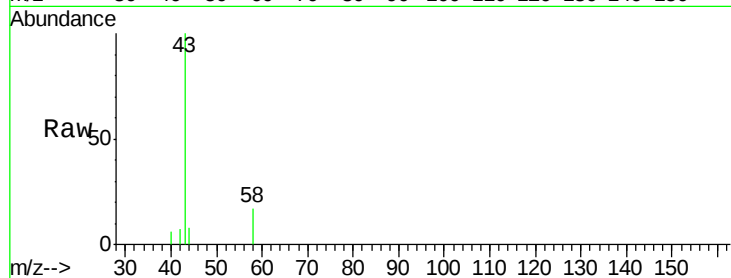




#16
Acetone
Concen: 291.259 ug/l
RT: 3.22 min Scan# 182
Delta R.T. -0.00 min
Lab File: VD062004.D
Acq: 24 Apr 2019 18:21

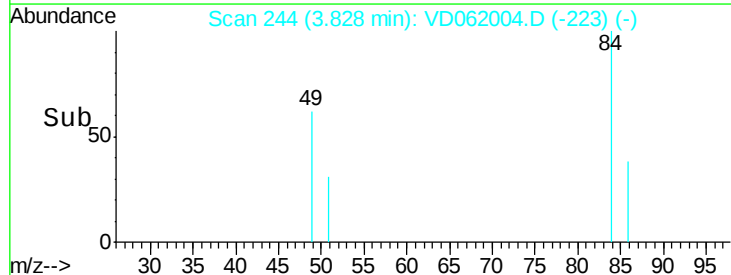
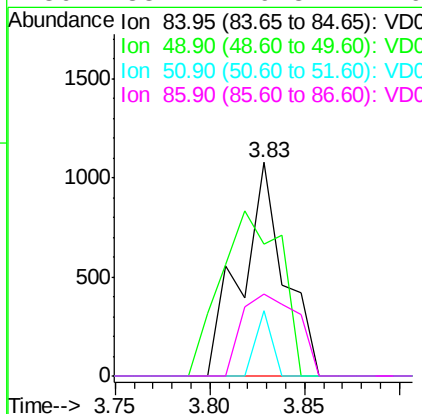
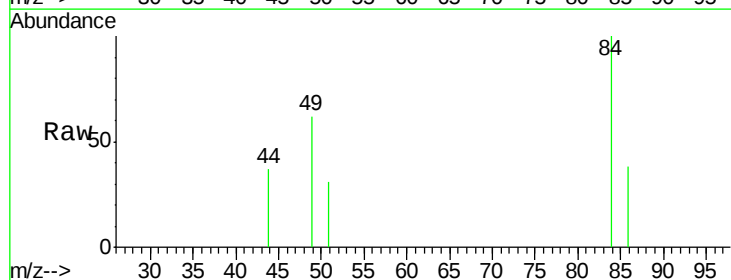
Instrument :
MSVOA_D
ClientSampleId :

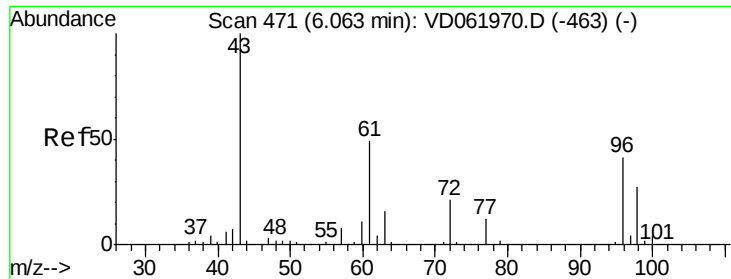
Tot Ion: 43 Resp: 19355
Ion Ratio Lower Upper
43 100
58 17.2 19.9 29.9#



#20
Methylene Chloride
Concen: 2.273 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.01 min
Lab File: VD062004.D
Acq: 24 Apr 2019 18:21

Tgt Ion: 84 Resp: 1720
Ion Ratio Lower Upper
84 100
49 62.1 94.0 141.0#
51 30.7 29.0 43.4
86 38.2 49.8 74.6#





#25

2-Butanone

Concen: 39.395 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.00 min

Lab File: VD062004.D

Acq: 24 Apr 2019 18:21

Instrument :

MSVOA_D

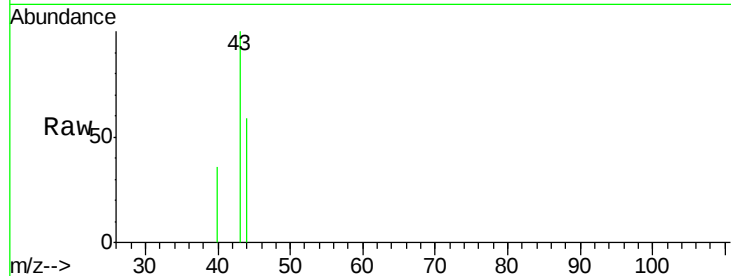
ClientSampled :

Tot Ion: 43 Resp: 3174

Ion Ratio Lower Upper

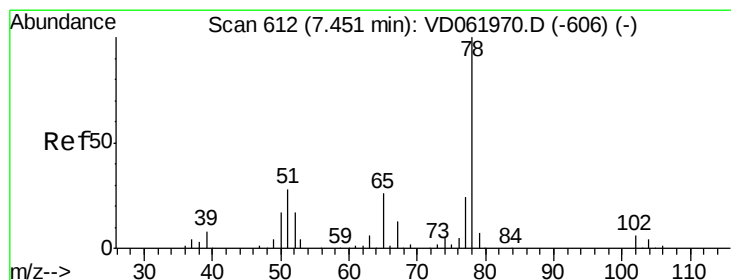
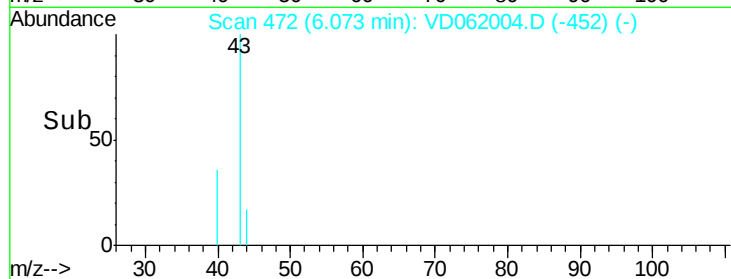
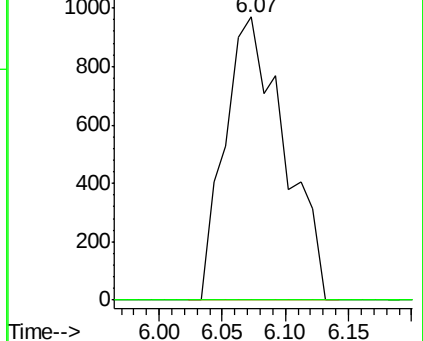
43 100

72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD062004.D

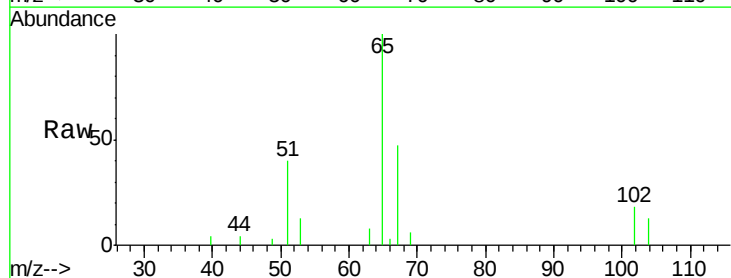
Acq: 24 Apr 2019 18:21

Tgt Ion: 65 Resp: 30111

Ion Ratio Lower Upper

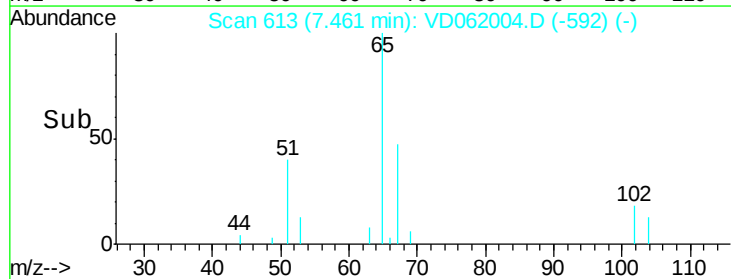
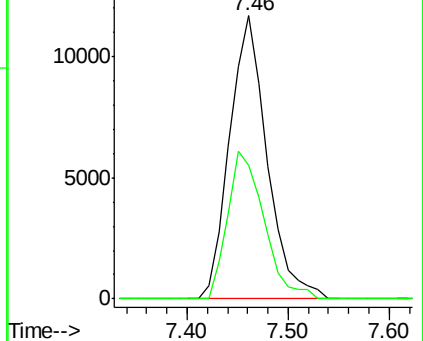
65 100

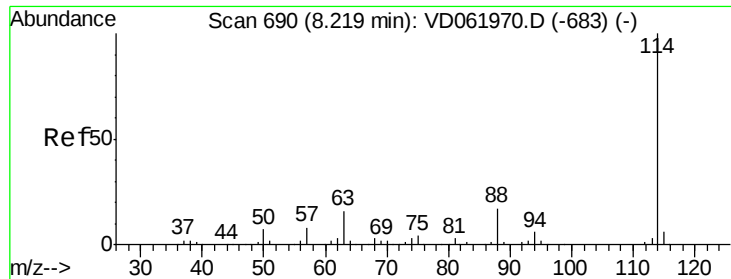
67 47.2 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

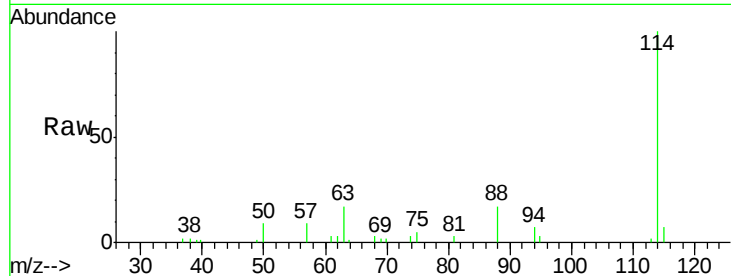




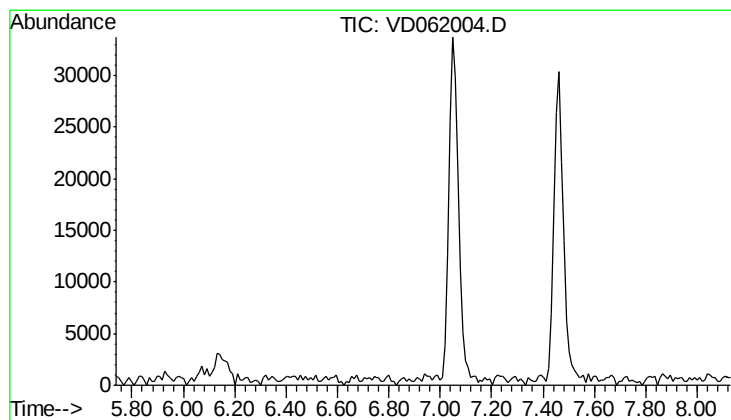
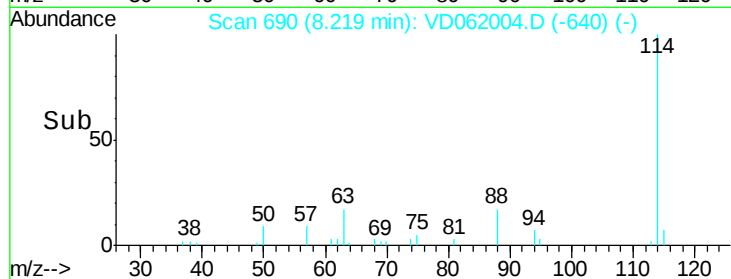
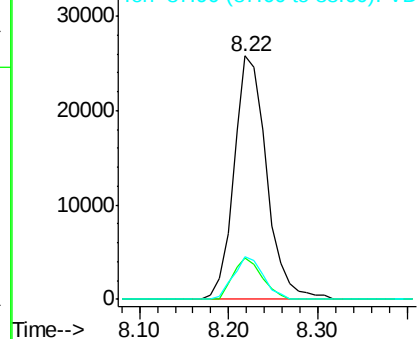
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VD062004.D
 Acq: 24 Apr 2019 18:21

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 65795
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 32.4
 88 17.3 0.0 33.6

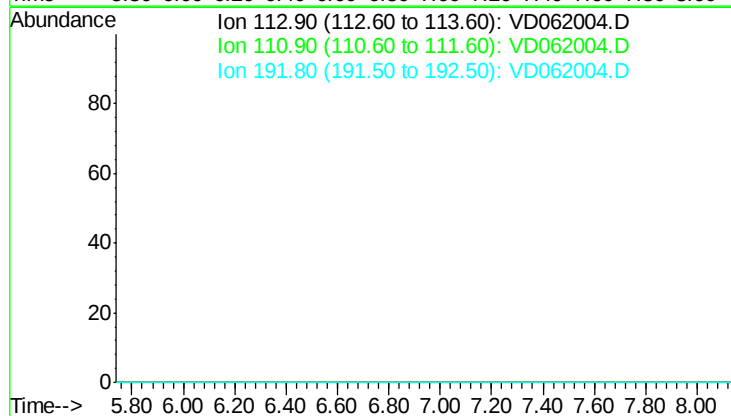


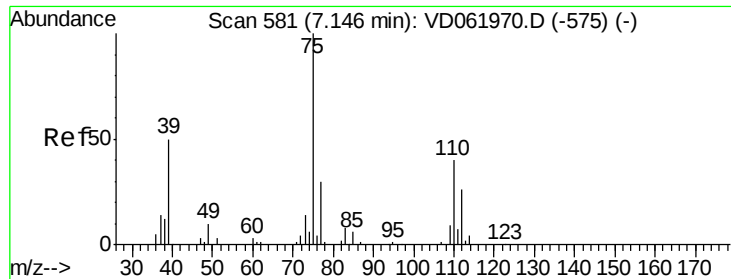
Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 Expected RT: 6.93 min
 Lab File: VD062004.D
 Acq: 24 Apr 2019 18:21

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 98.1
 192 16.2





#36

1,1-Dichloropropene

Concen: 4.303 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062004.D

Acq: 24 Apr 2019 18:21

Instrument :

MSVOA_D

ClientSampled :

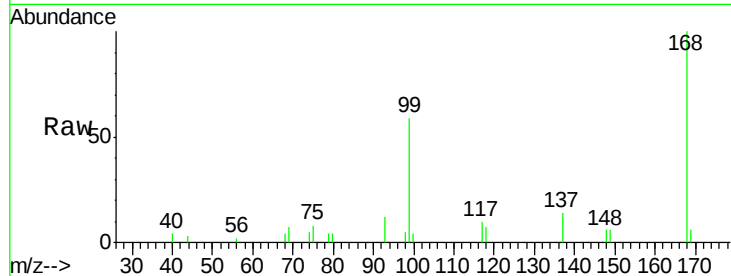
Tot Ion: 75 Resp: 2206

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

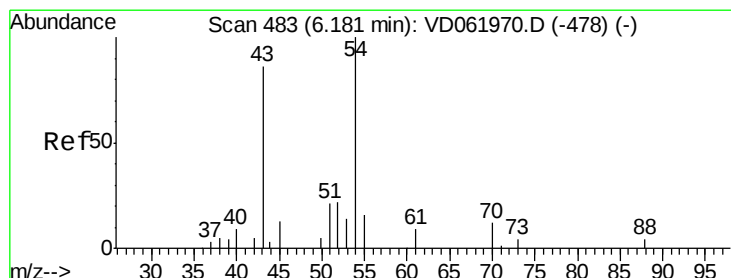
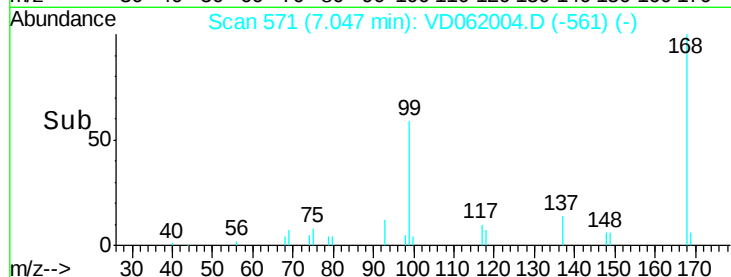
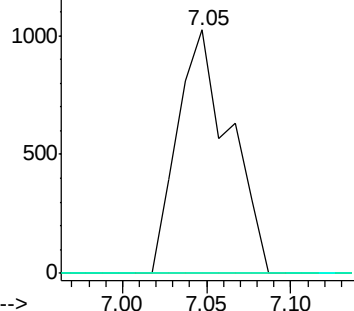
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 14.530 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.11 min

Lab File: VD062004.D

Acq: 24 Apr 2019 18:21

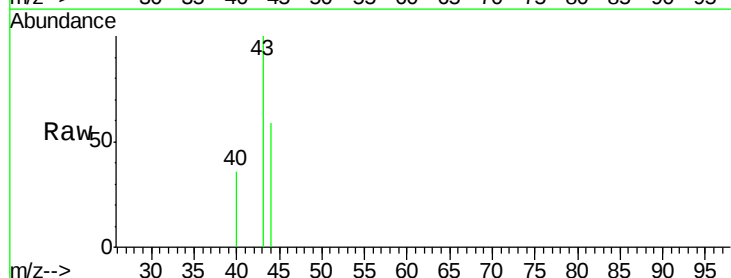
Tgt Ion: 43 Resp: 3174

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

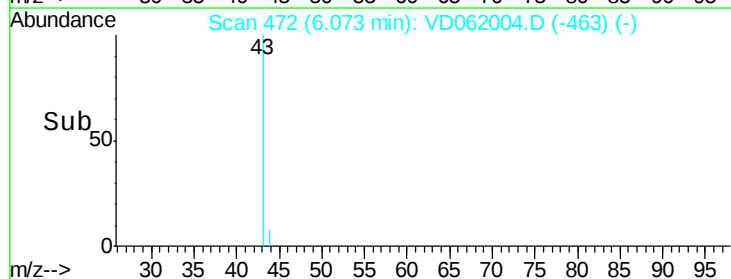
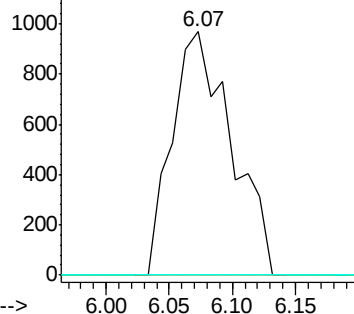
70 0.0 7.8 11.6#

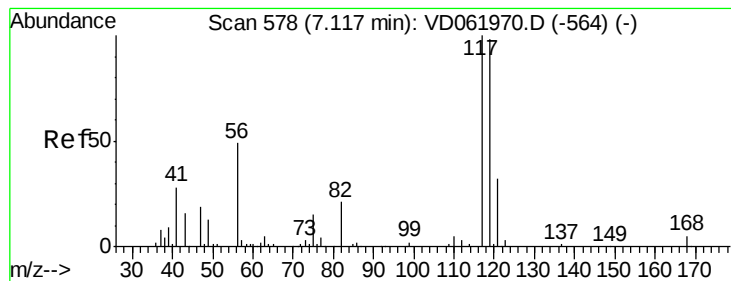


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 4.691 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD062004.D

Acq: 24 Apr 2019 18:21

Instrument :

MSVOA_D

ClientSampleId :

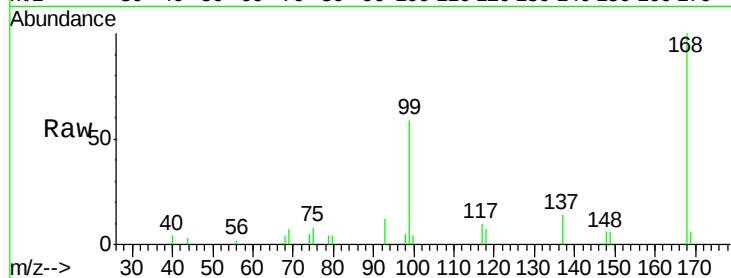
Tot Ion:117 Resp: 3047

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

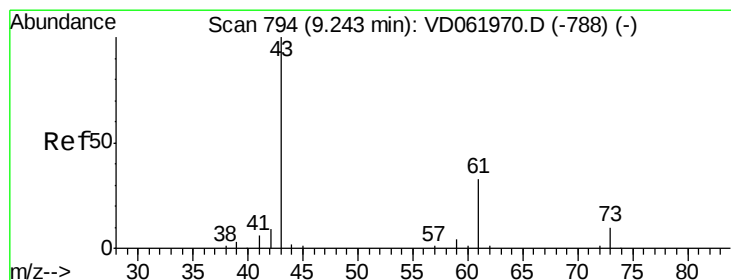
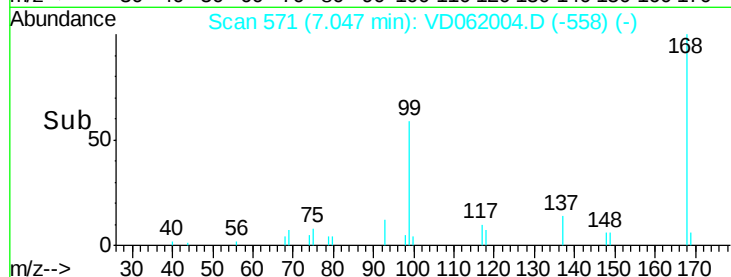
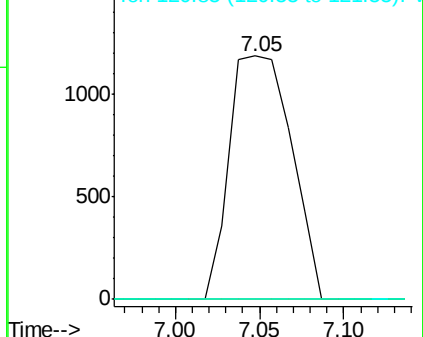
121 0.0 25.9 38.9#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#43

Isopropyl Acetate

Concen: 1.253 ug/l

RT: 8.90 min Scan# 759

Delta R.T. -0.35 min

Lab File: VD062004.D

Acq: 24 Apr 2019 18:21

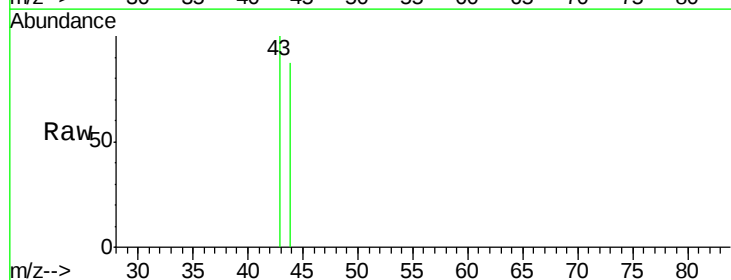
Tgt Ion: 43 Resp: 400

Ion Ratio Lower Upper

43 100

61 0.0 25.1 37.7#

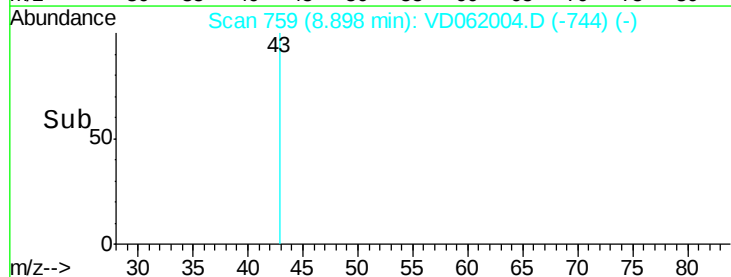
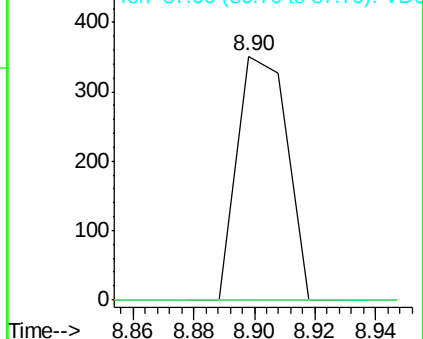
87 0.0 0.0 0.0

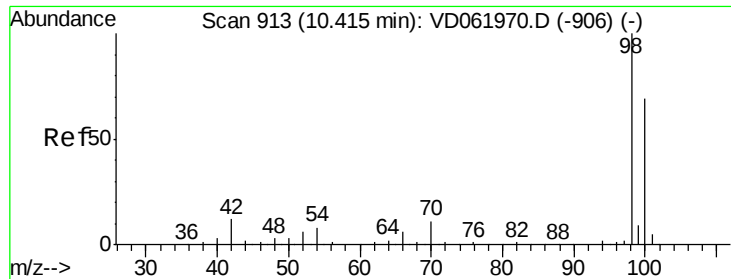


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC

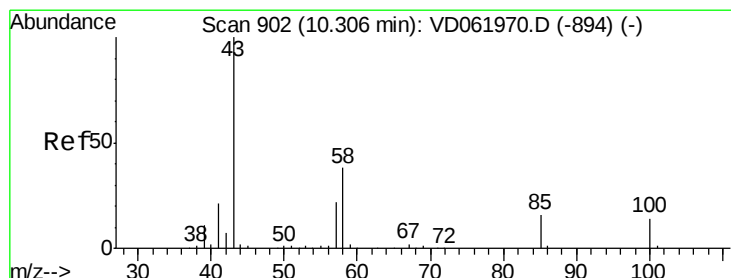
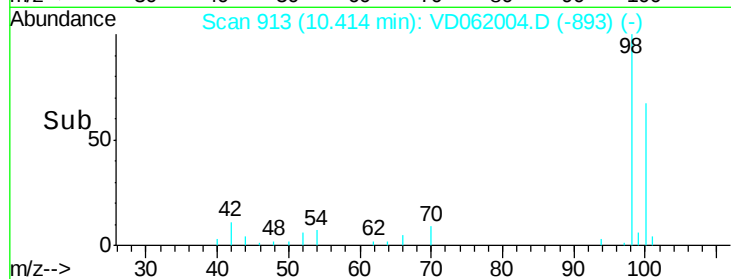
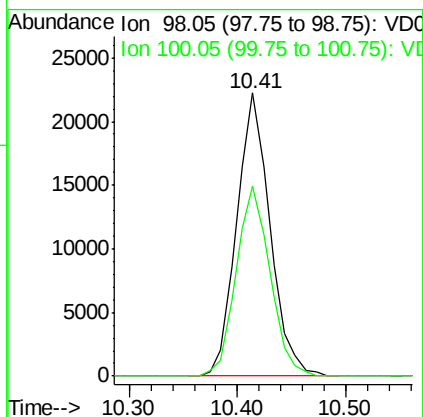
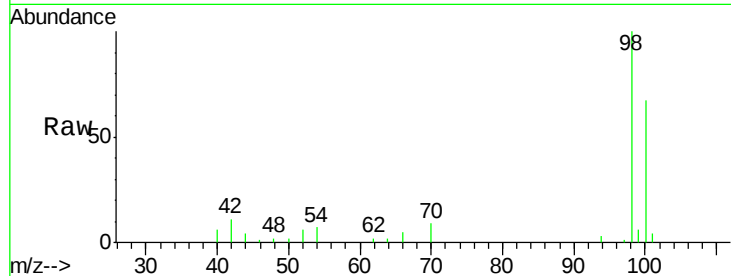




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD062004.D
Acq: 24 Apr 2019 18:21

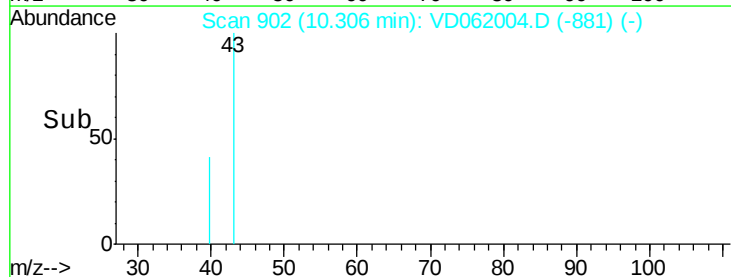
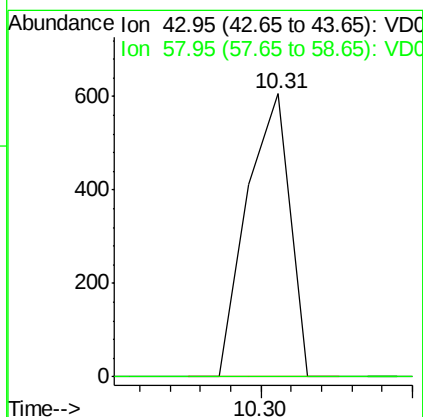
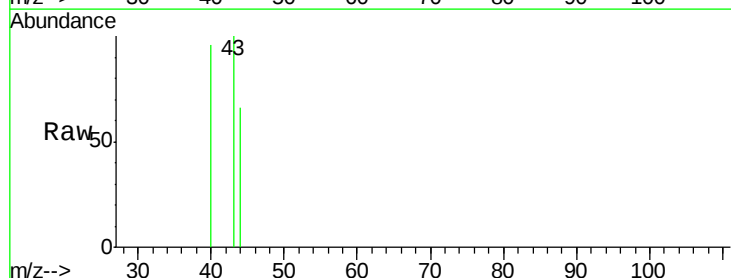
Instrument :
MSVOA_D
ClientSampleId :

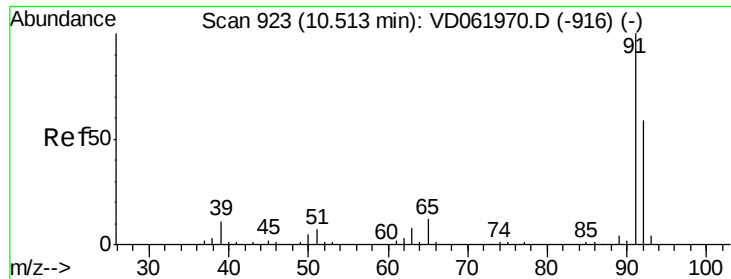
Tot Ion: 98 Resp: 47646
Ion Ratio Lower Upper
98 100
100 67.3 53.8 80.8



#51
4-Methyl-2-Pentanone
Concen: 3.084 ug/l
RT: 10.31 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD062004.D
Acq: 24 Apr 2019 18:21

Tgt Ion: 43 Resp: 602
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#





#52

Toluene

Concen: 5.701 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.00 min

Lab File: VD062004.D

Acq: 24 Apr 2019 18:21

Instrument :

MSVOA_D

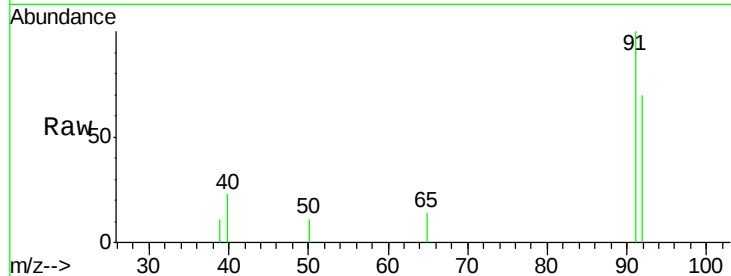
ClientSampleId :

Tot Ion: 92 Resp: 4613

Ion Ratio Lower Upper

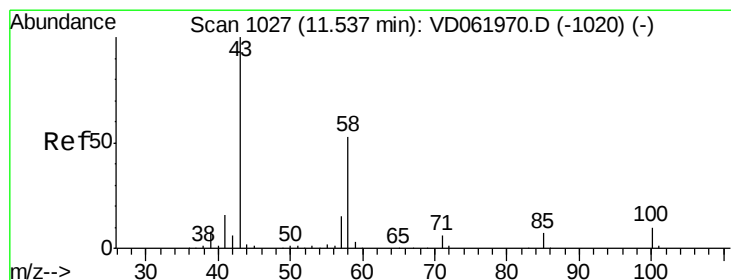
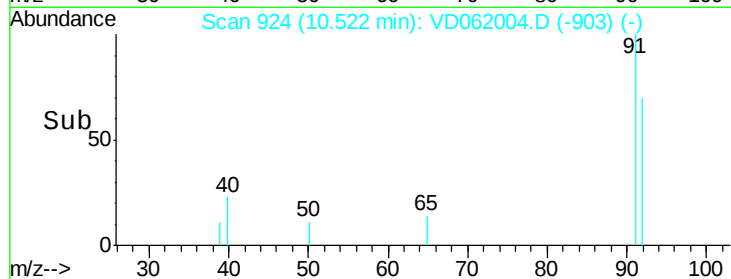
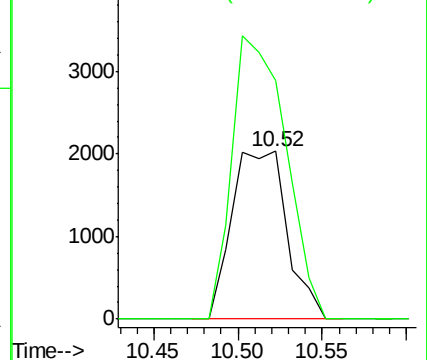
92 100

91 142.3 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 3.039 ug/l

RT: 11.55 min Scan# 1028

Delta R.T. 0.01 min

Lab File: VD062004.D

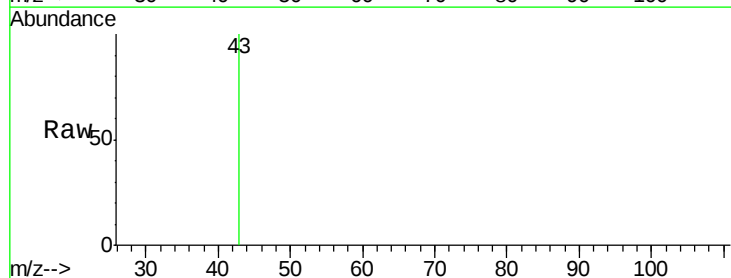
Acq: 24 Apr 2019 18:21

Tgt Ion: 43 Resp: 445

Ion Ratio Lower Upper

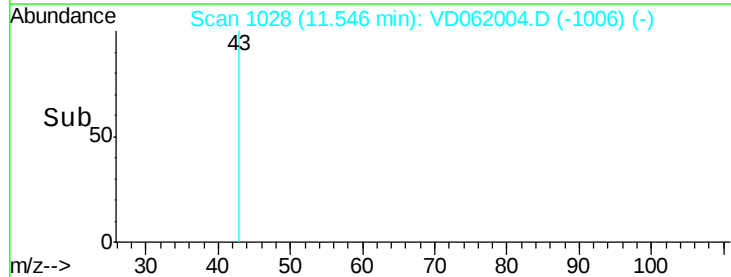
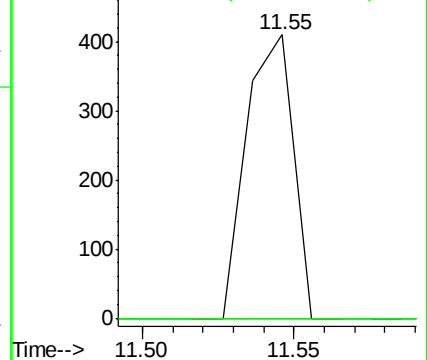
43 100

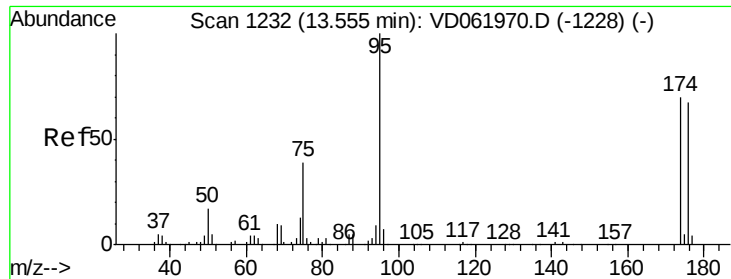
58 0.0 25.4 76.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

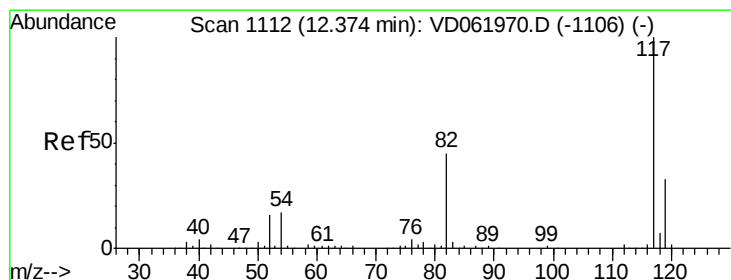
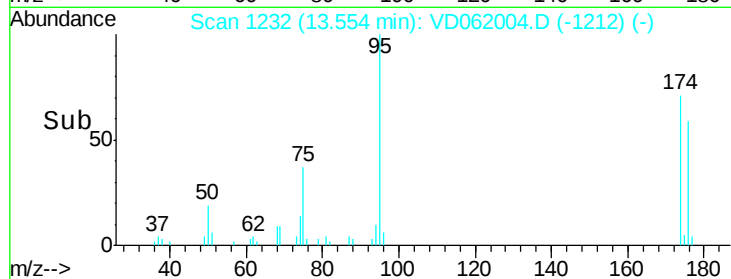
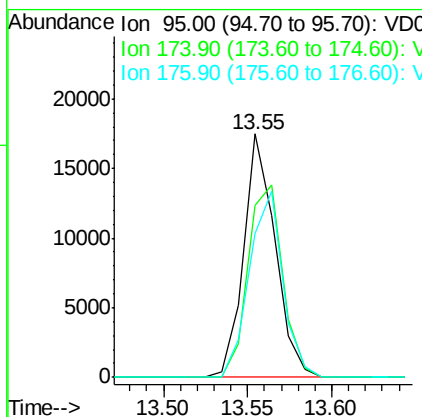
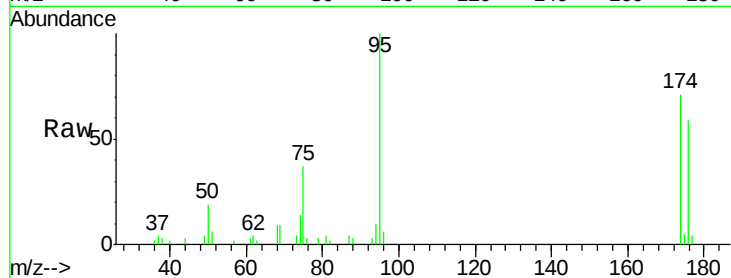




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD062004.D
Acq: 24 Apr 2019 18:21

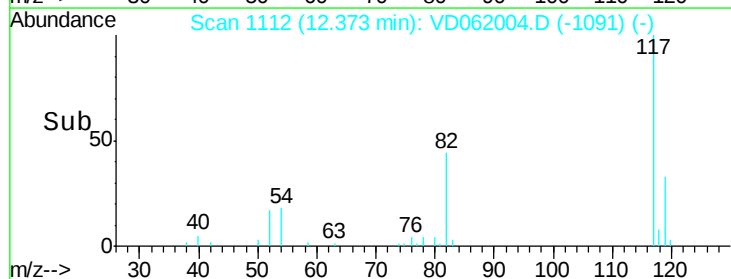
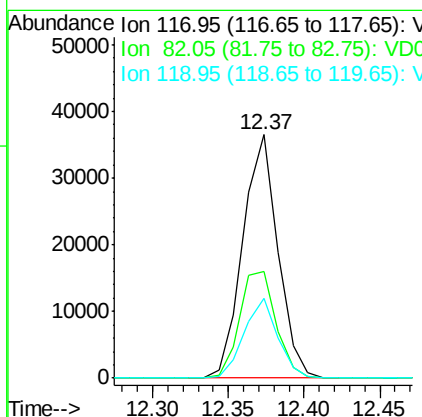
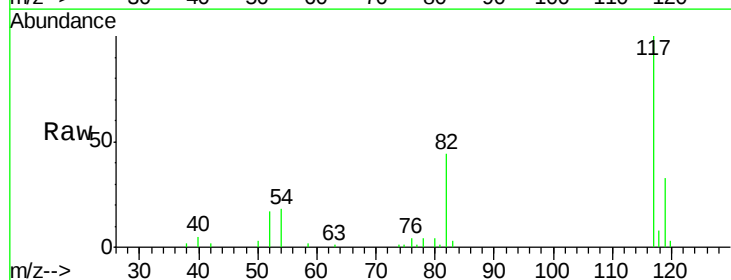
Instrument :
MSVOA_D
ClientSampleId :

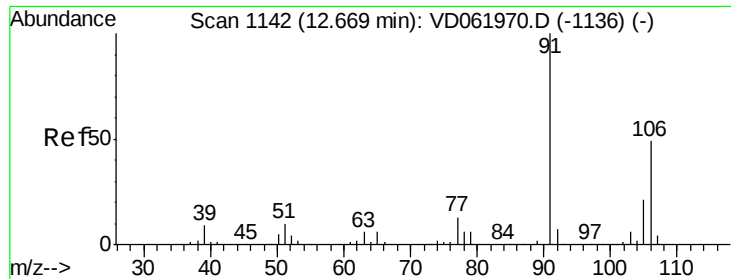
Tot Ion: 95 Resp: 22582
Ion Ratio Lower Upper
95 100
174 70.8 0.0 181.8
176 59.0 0.0 174.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062004.D
Acq: 24 Apr 2019 18:21

Tgt Ion: 117 Resp: 58827
Ion Ratio Lower Upper
117 100
82 43.8 36.2 54.2
119 32.8 26.2 39.4

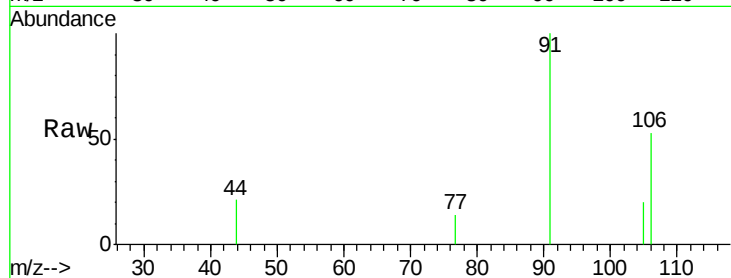




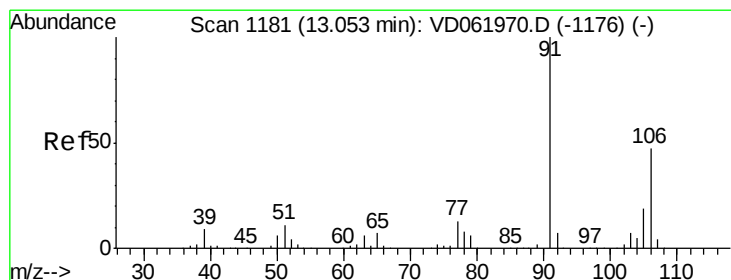
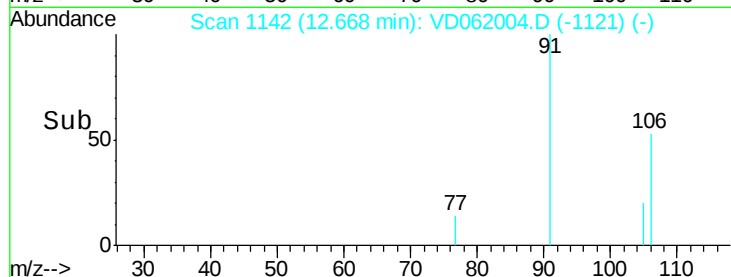
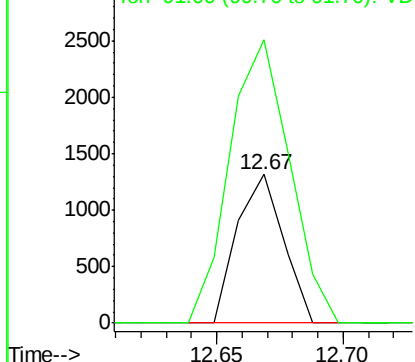
#68
m/p-Xylenes
Concen: 2.548 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.01 min
Lab File: VD062004.D
Acq: 24 Apr 2019 18:21

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 1671
Ion Ratio Lower Upper
106 100
91 190.1 164.0 246.0

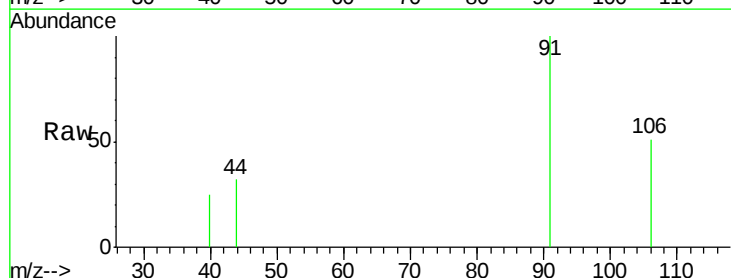


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

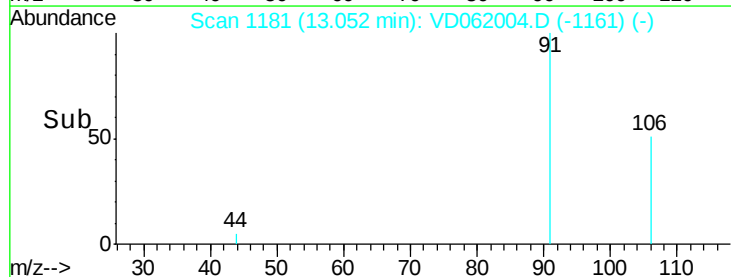
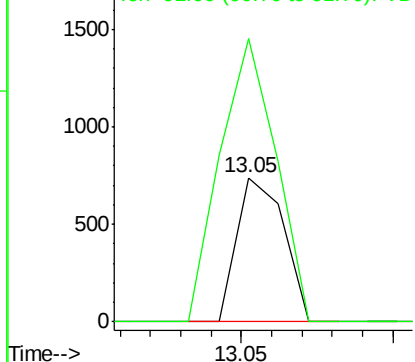


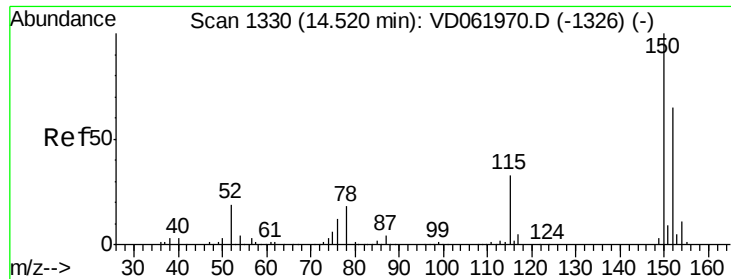
#69
o-Xylene
Concen: 1.323 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD062004.D
Acq: 24 Apr 2019 18:21

Tgt Ion:106 Resp: 794
Ion Ratio Lower Upper
106 100
91 196.7 106.7 319.9



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD062004.D

Acq: 24 Apr 2019 18:21

Instrument :

MSVOA_D

ClientSampleId :

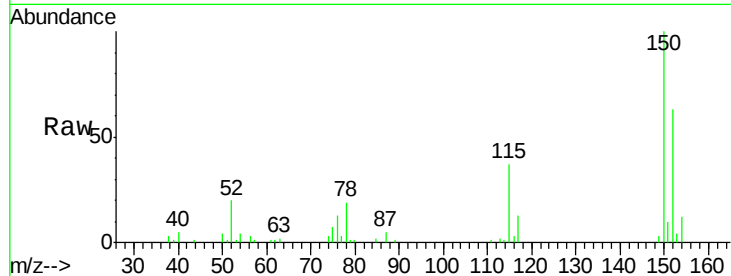
Tot Ion:152 Resp: 21035

Ion Ratio Lower Upper

152 100

115 59.6 30.9 92.7

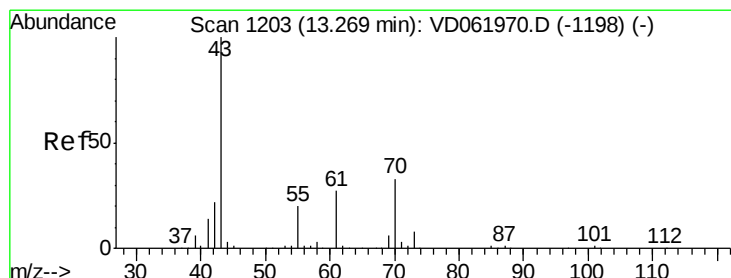
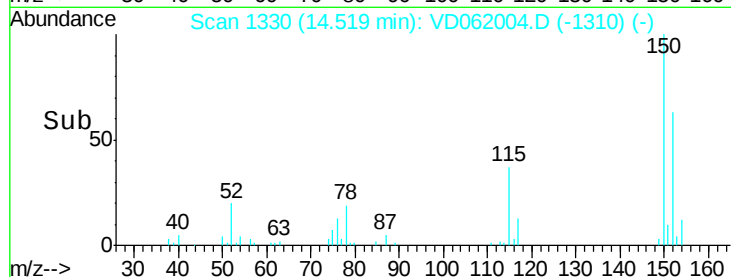
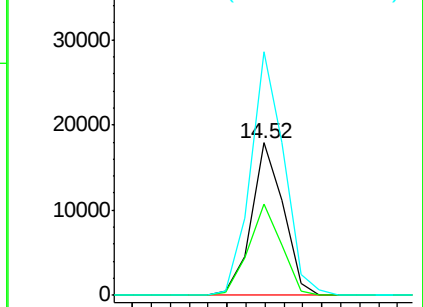
150 159.5 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 10.131 ug/l

RT: 13.20 min Scan# 1196

Delta R.T. -0.06 min

Lab File: VD062004.D

Acq: 24 Apr 2019 18:21

Tgt Ion: 43 Resp: 3661

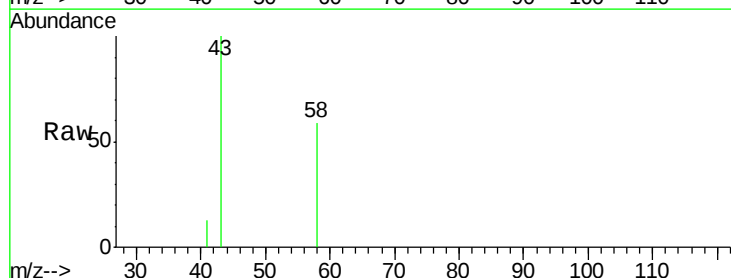
Ion Ratio Lower Upper

43 100

70 0.0 24.2 36.4#

55 0.0 16.0 24.0#

61 0.0 21.6 32.4#

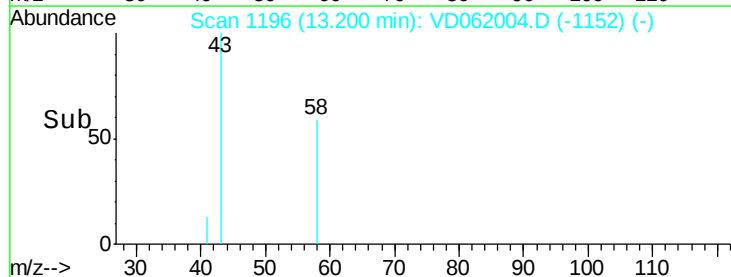
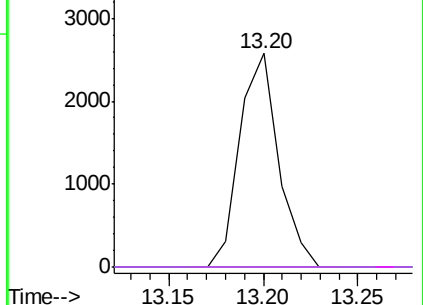


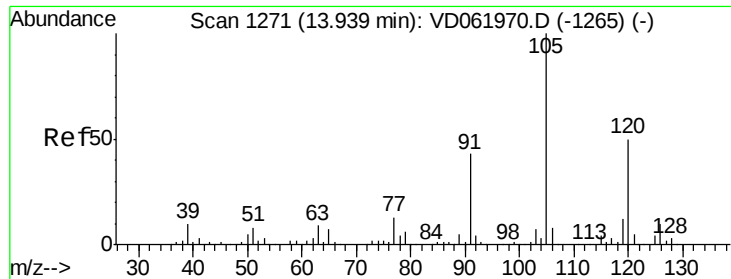
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#80

1,3,5-Trimethylbenzene

Concen: 1.281 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD062004.D

Acq: 24 Apr 2019 18:21

Instrument :

MSVOA_D

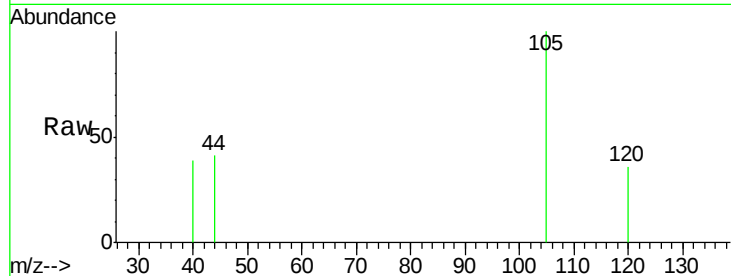
ClientSampled :

Tot Ion:105 Resp: 1433

Ion Ratio Lower Upper

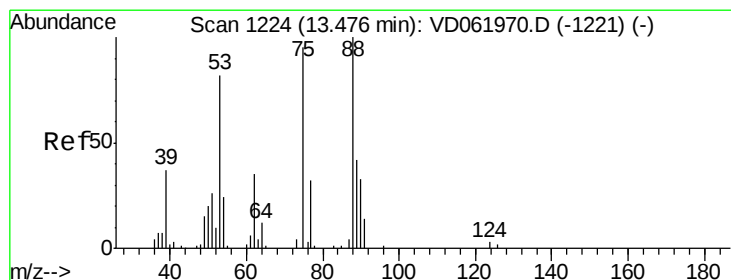
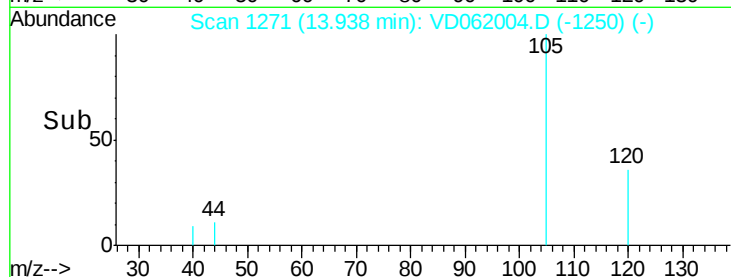
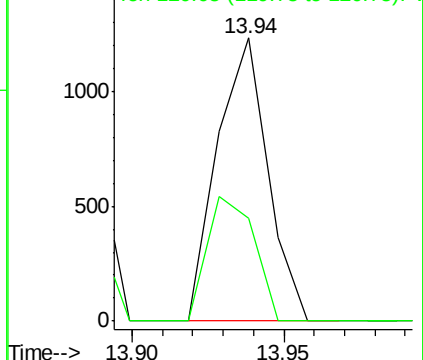
105 100

120 36.3 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 108.567 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062004.D

Acq: 24 Apr 2019 18:21

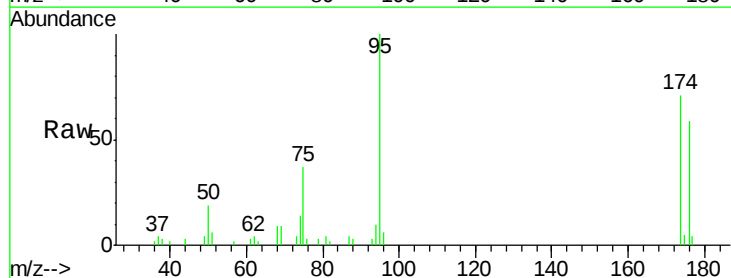
Tgt Ion: 75 Resp: 8788

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

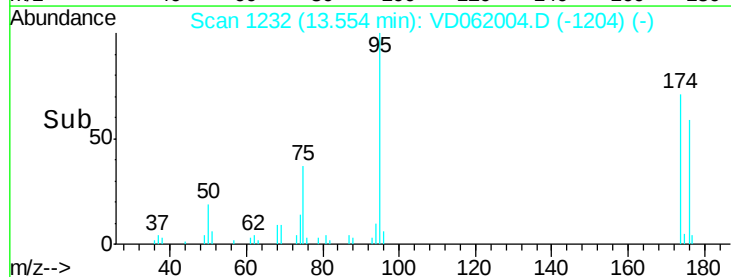
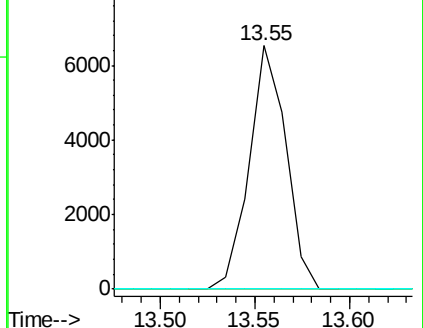
89 0.0 35.0 52.6#

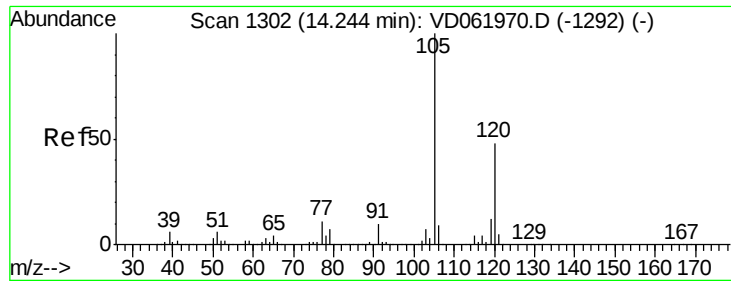


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

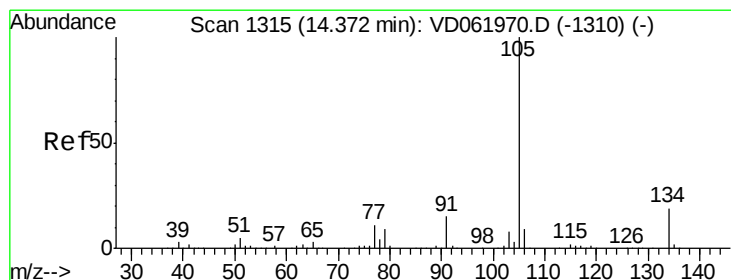
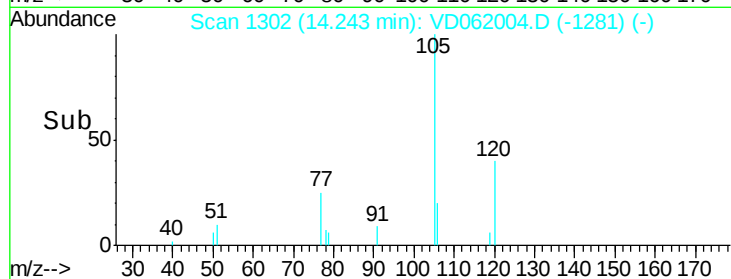
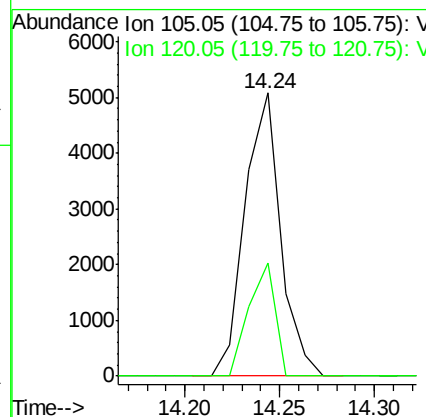
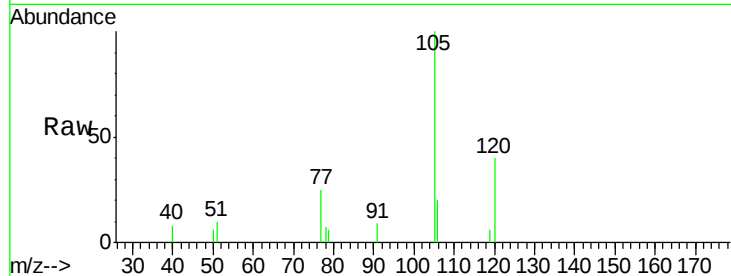




#84
 1,2,4-Trimethylbenzene
 Concen: 6.194 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD062004.D
 Acq: 24 Apr 2019 18:21

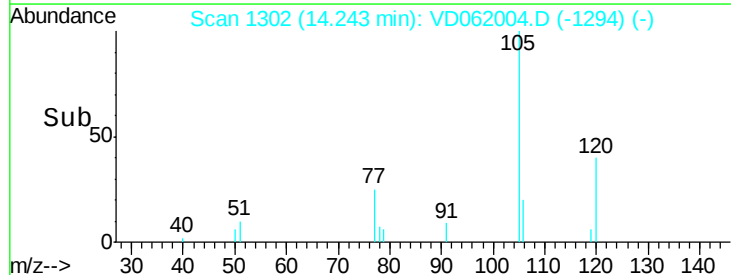
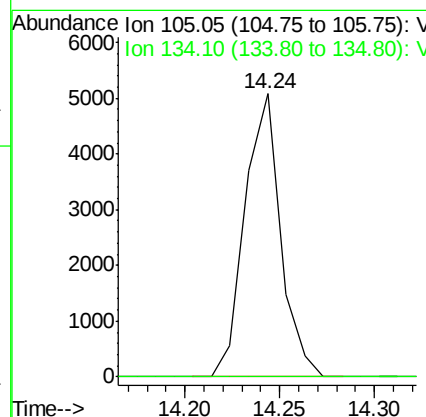
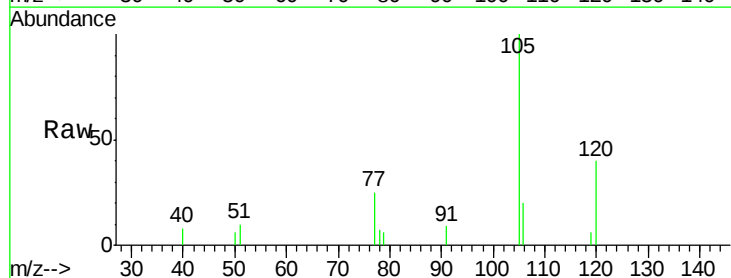
Instrument :
 MSVOA_D
 ClientSampleId :

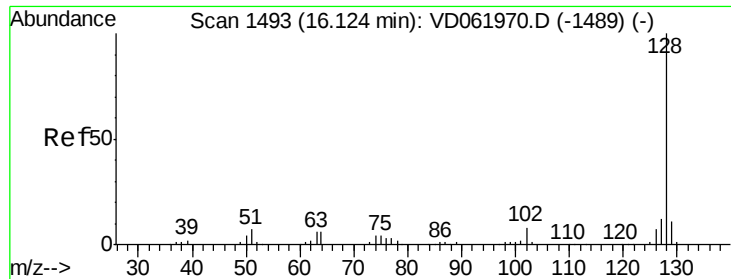
Tot Ion:105 Resp: 6617
 Ion Ratio Lower Upper
 105 100
 120 40.1 23.1 69.2



#85
 sec-Butylbenzene
 Concen: 4.725 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.12 min
 Lab File: VD062004.D
 Acq: 24 Apr 2019 18:21

Tgt Ion:105 Resp: 6617
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.9 26.7#

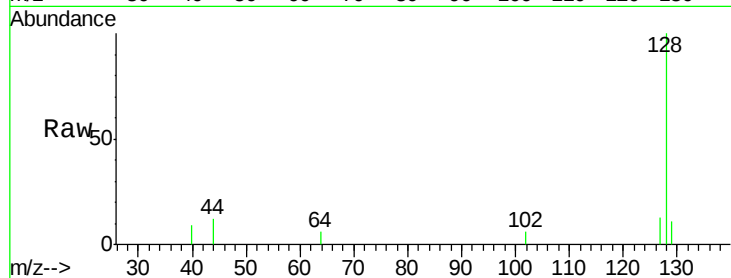




#95
 Naphthalene
 Concen: 12.482 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VD062004.D
 Acq: 24 Apr 2019 18:21

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:128 Resp: 6323
 Ion Ratio Lower Upper
 128 100
 127 13.0 9.8 14.8
 129 11.1 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

