

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042419\
 Data File : VD062003.D
 Acq On : 24 Apr 2019 17:51
 Operator : VA/AP
 Sample : K2539-02RE
 Misc : 4.42g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 25 01:35:26 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	7.05	168	429557	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	752147	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	540092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	165518	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	162258	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount			Recovery	=	0.00%	
50) Toluene-d8	10.41	98	462430	37.36	ug/l	0.00
Spiked Amount			Recovery	=	74.72%	
62) 4-Bromofluorobenzene	13.56	95	173253	34.90	ug/l	0.00
Spiked Amount			Recovery	=	69.80%	

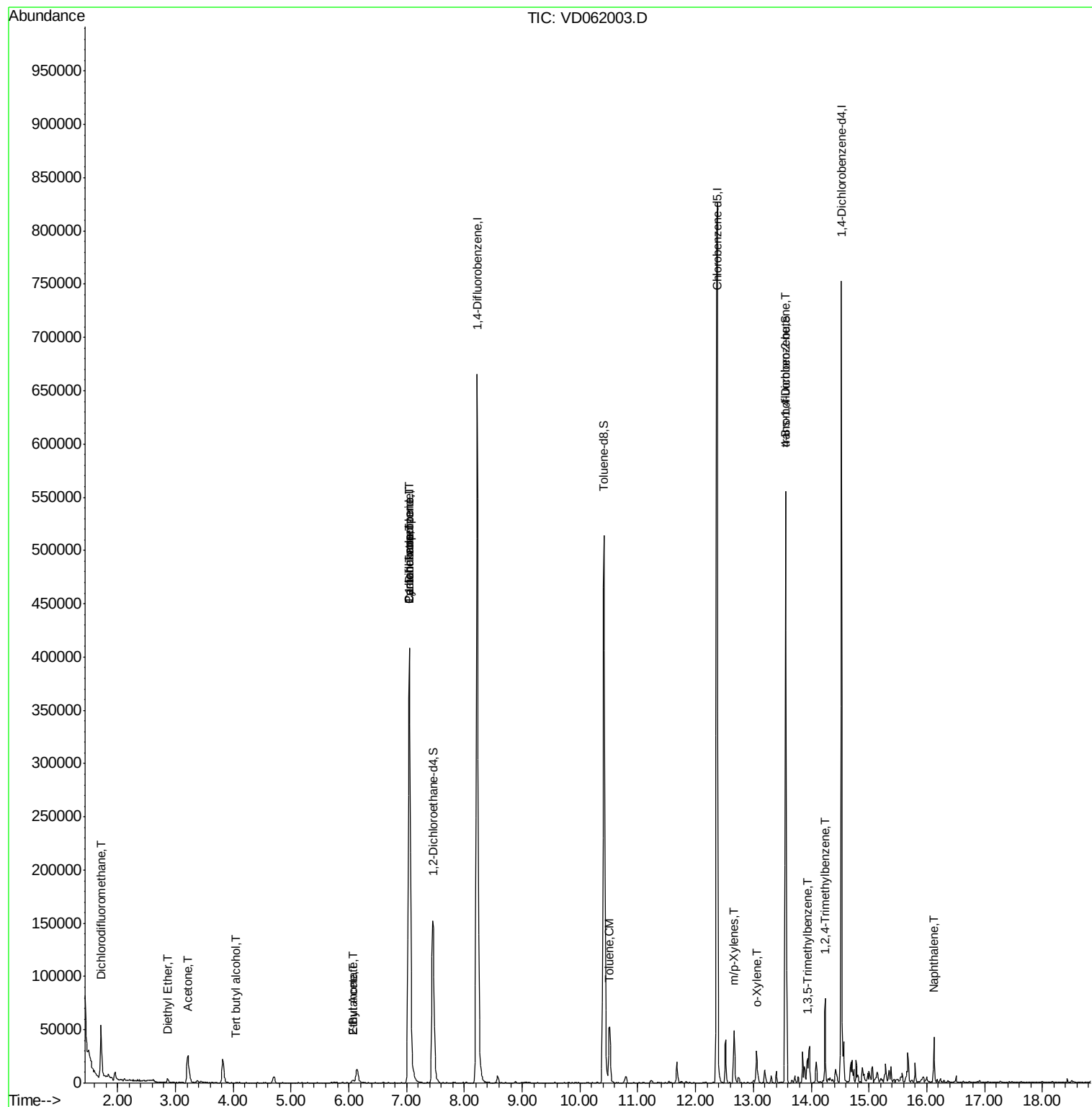
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.71	85	6856	1.787	ug/l	95
8) Diethyl Ether	2.86	74	1244	1.039	ug/l #	33
11) Tert butyl alcohol	4.05	59	190	1.000	ug/l #	76
16) Acetone	3.22	43	49288	61.400	ug/l #	88
25) 2-Butanone	6.06	43	6610	6.792	ug/l #	56
31) Cyclohexane	7.04	56	6871	1.372	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	31410	5.360	ug/l #	48
37) Ethyl Acetate	6.06	43	6610	2.647	ug/l #	64
38) Carbon Tetrachloride	7.05	117	42380	5.707	ug/l #	15
52) Toluene	10.51	92	29818	3.224	ug/l	98
68) m/p-Xylenes	12.66	106	16581	2.754	ug/l	96
69) o-Xylene	13.05	106	7728	1.403	ug/l	93
80) 1,3,5-Trimethylbenzene	13.94	105	12233	1.390	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.56	75	67776	106.409	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	38235	4.548	ug/l	99
95) Naphthalene	16.12	128	26453	6.637	ug/l	97

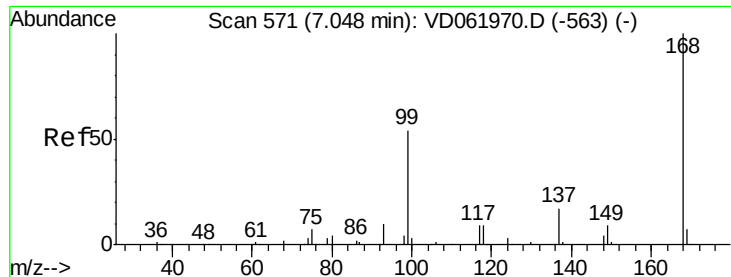
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

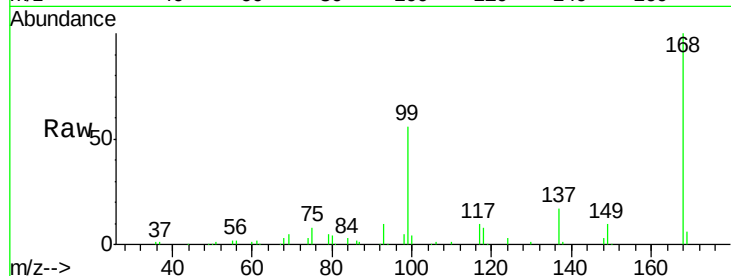
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 429557

Ion Ratio Lower Upper

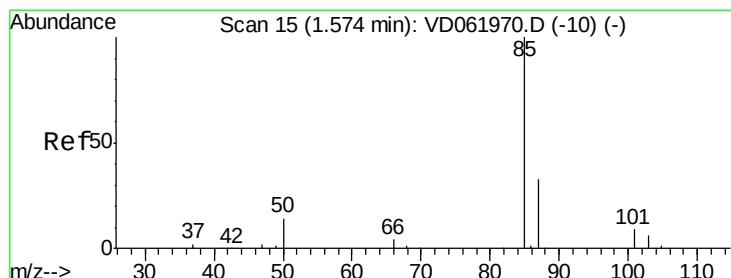
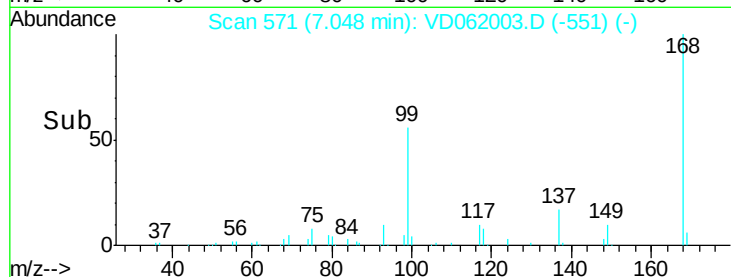
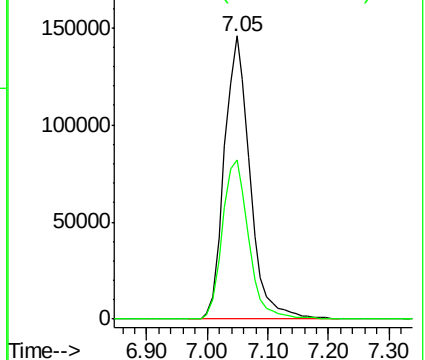
168 100

99 56.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 1.787 ug/l

RT: 1.71 min Scan# 29

Delta R.T. 0.12 min

Lab File: VD062003.D

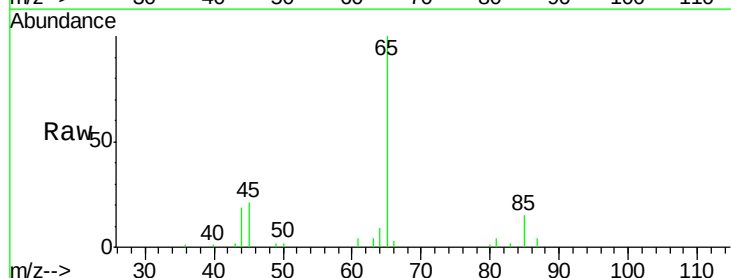
Acq: 24 Apr 2019 17:51

Tgt Ion: 85 Resp: 6856

Ion Ratio Lower Upper

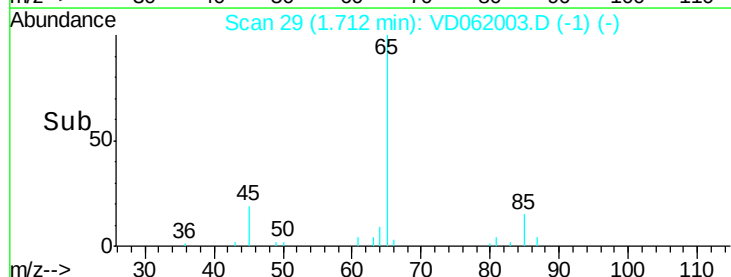
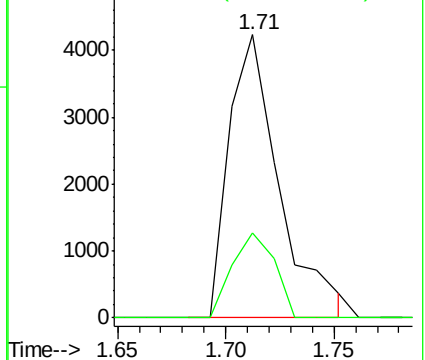
85 100

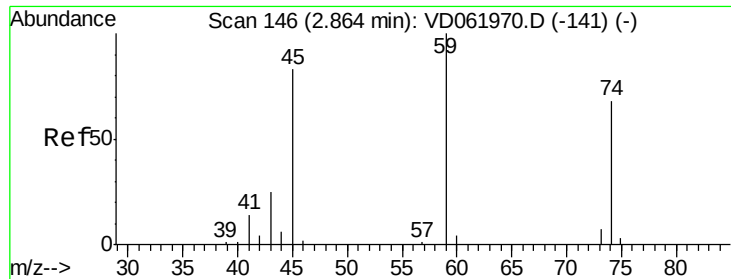
87 29.8 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#8

Diethyl Ether

Concen: 1.039 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.01 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

Instrument :

MSVOA_D

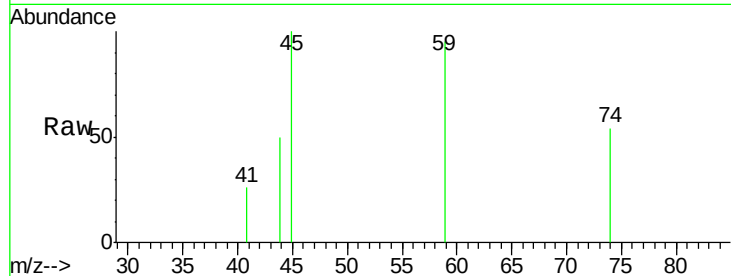
ClientSampleId :

Tot Ion: 74 Resp: 1244

Ion Ratio Lower Upper

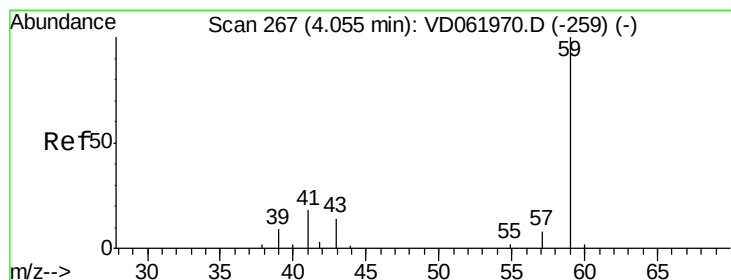
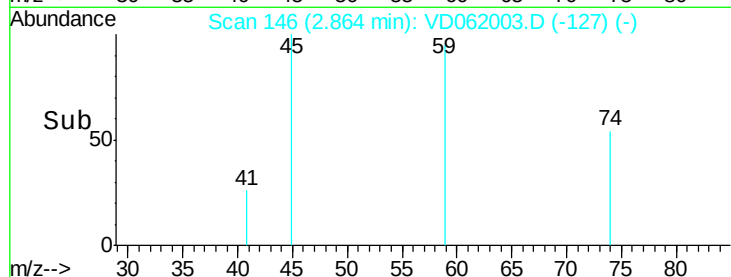
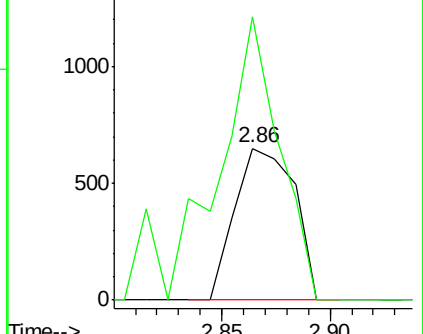
74 100

45 186.2 56.9 170.7#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 1.000 ug/l

RT: 4.05 min Scan# 266

Delta R.T. -0.01 min

Lab File: VD062003.D

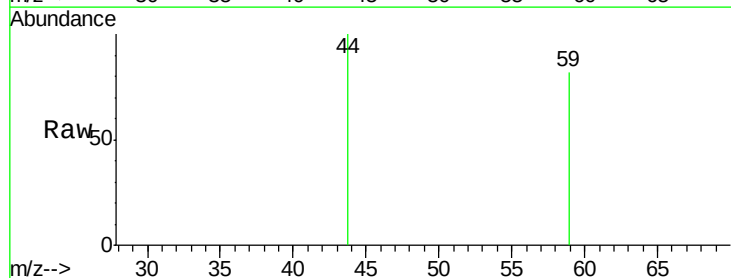
Acq: 24 Apr 2019 17:51

Tgt Ion: 59 Resp: 190

Ion Ratio Lower Upper

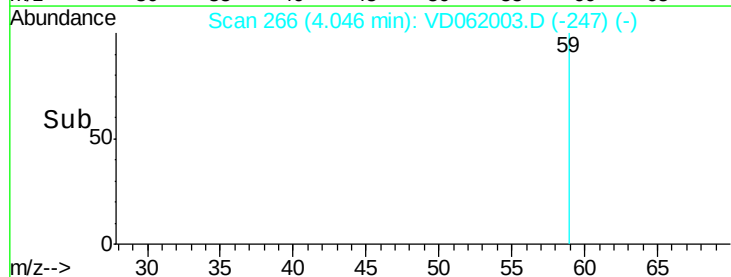
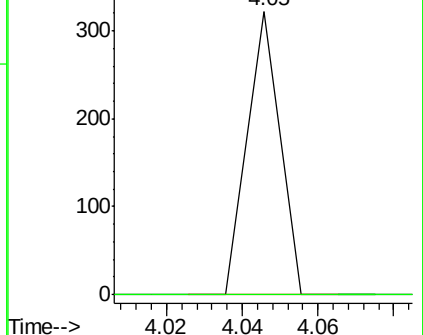
59 100

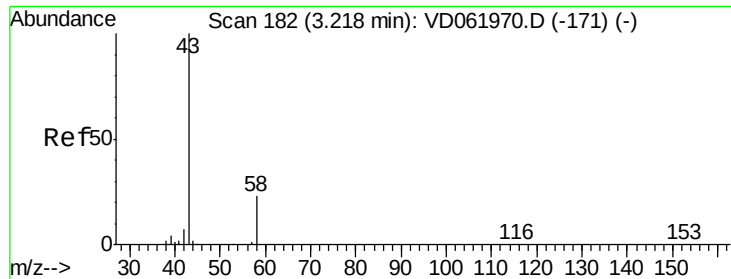
57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 61.400 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

Instrument :

MSVOA_D

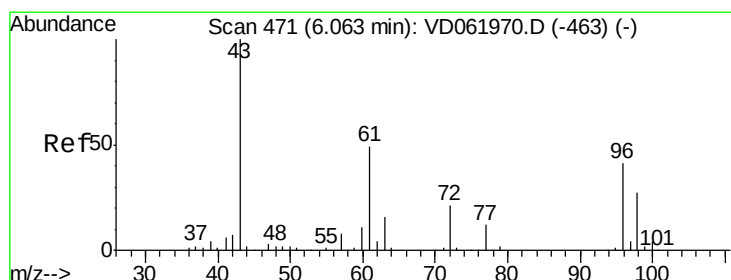
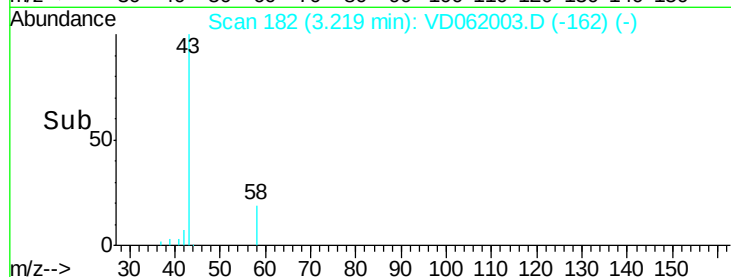
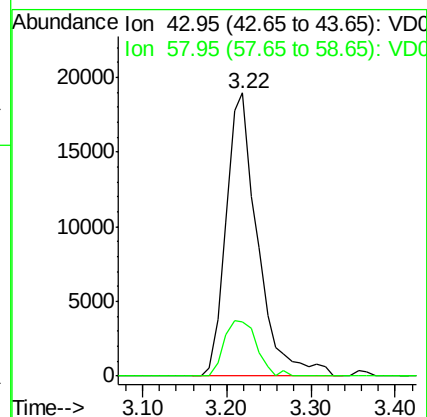
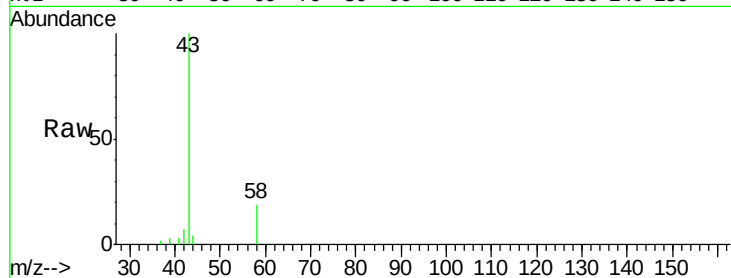
ClientSampleId :

Tot Ion: 43 Resp: 49288

Ion Ratio Lower Upper

43 100

58 19.0 19.9 29.9#



#25

2-Butanone

Concen: 6.792 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD062003.D

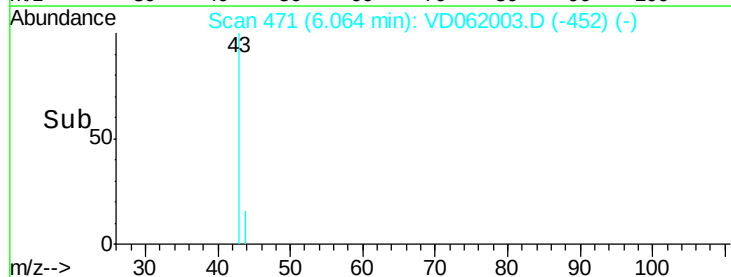
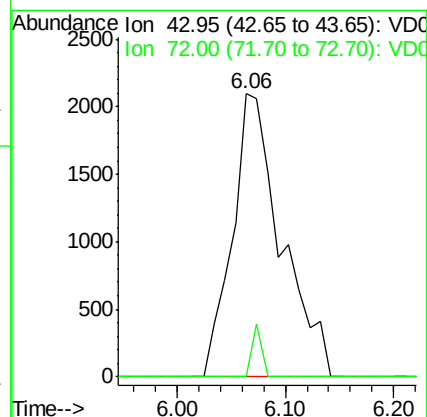
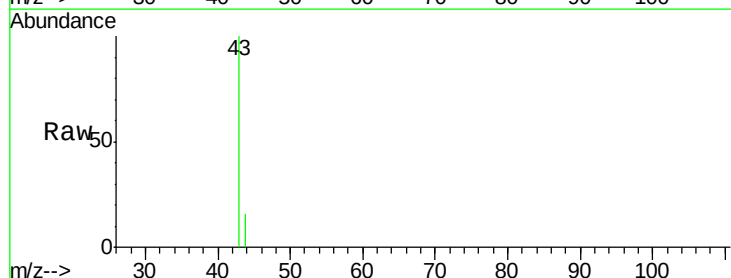
Acq: 24 Apr 2019 17:51

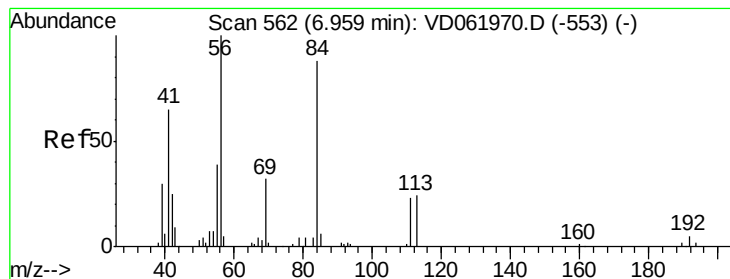
Tgt Ion: 43 Resp: 6610

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#





#31

Cyclohexane

Concen: 1.372 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.07 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

Instrument :
MSVOA_D
ClientSampleId :

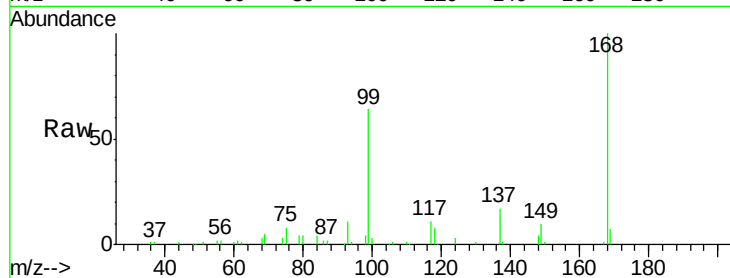
Tot Ion: 56 Resp: 6871

Ion Ratio Lower Upper

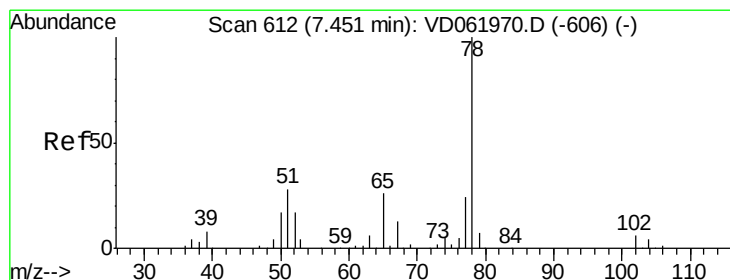
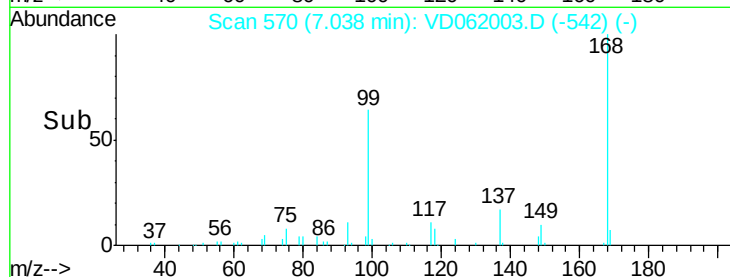
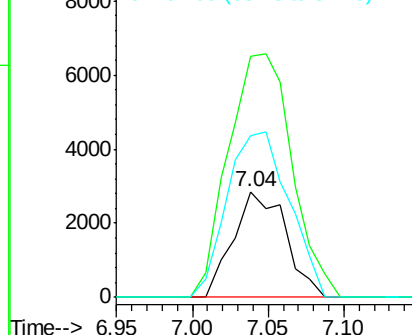
56 100

69 228.6 25.8 38.6#

84 152.9 72.2 108.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD062003.D

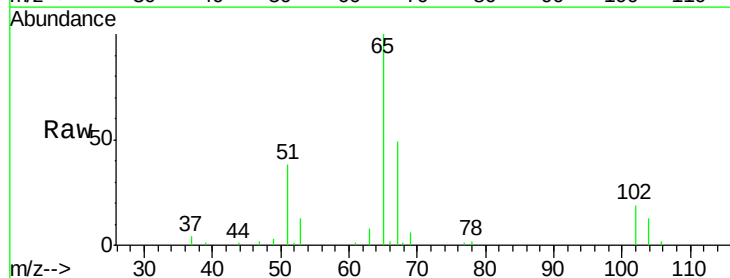
Acq: 24 Apr 2019 17:51

Tgt Ion: 65 Resp: 162258

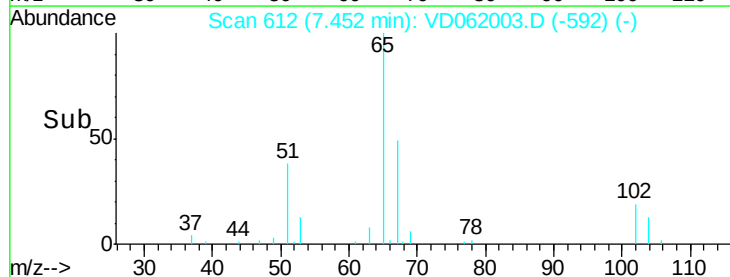
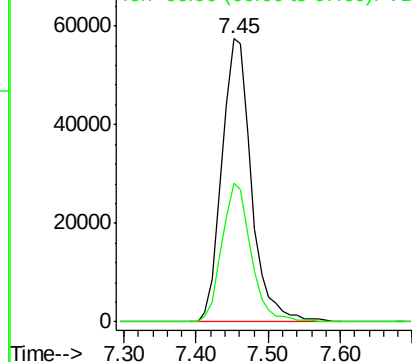
Ion Ratio Lower Upper

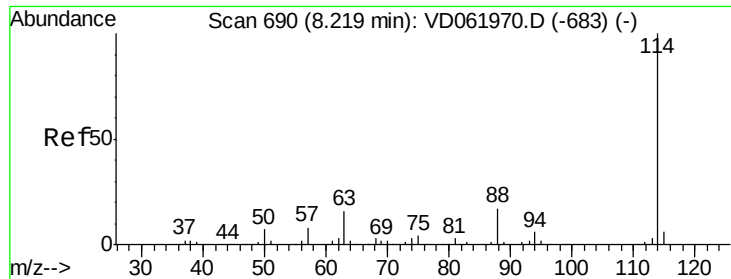
65 100

67 48.8 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

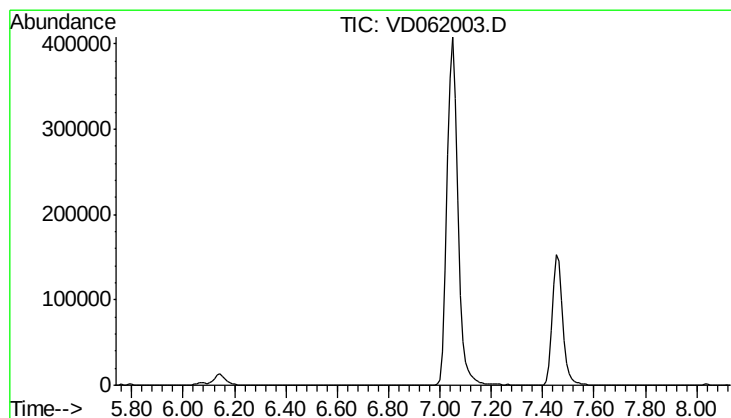
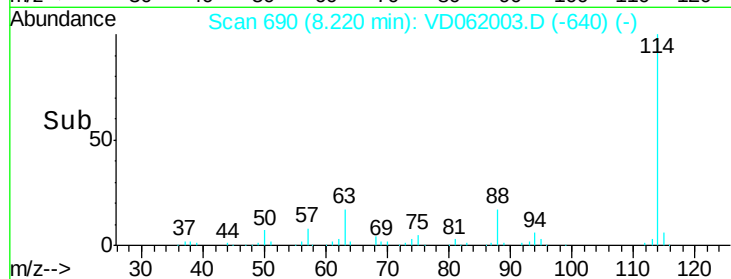
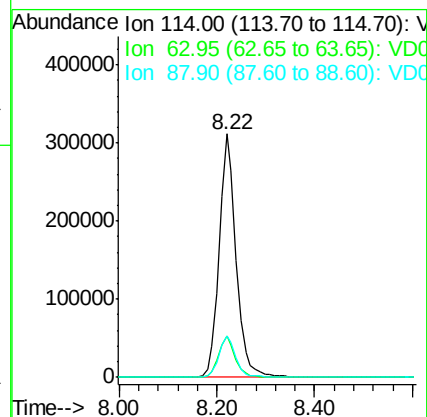
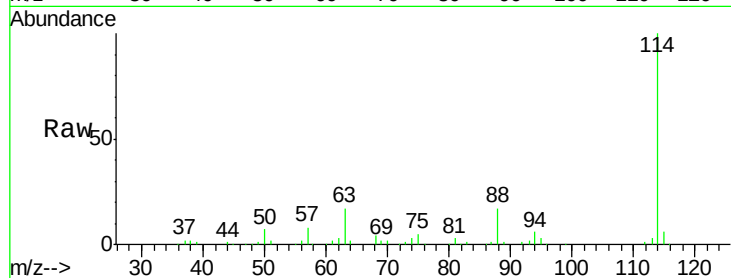




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VD062003.D
 Acq: 24 Apr 2019 17:51

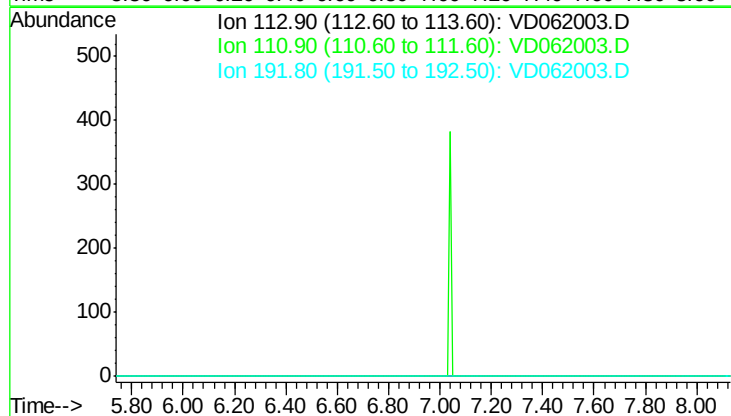
Instrument :
 MSVOA_D
 ClientSampleId :

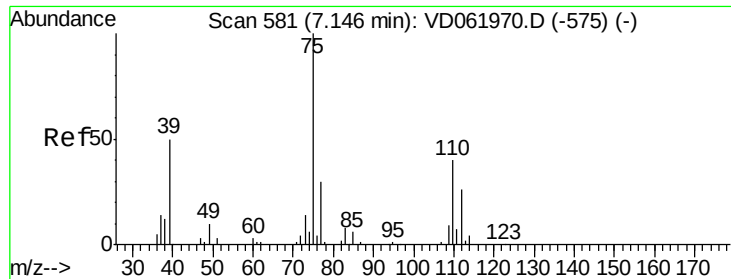
Tot Ion:114 Resp: 752147
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 32.4
 88 17.0 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 Expected RT: 6.93 min
 Lab File: VD062003.D
 Acq: 24 Apr 2019 17:51

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

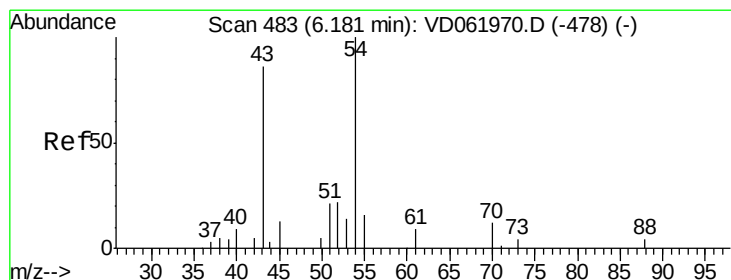
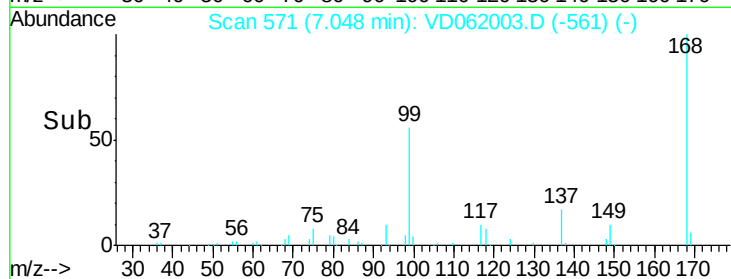
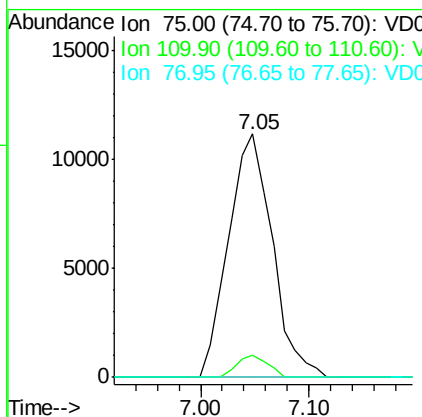
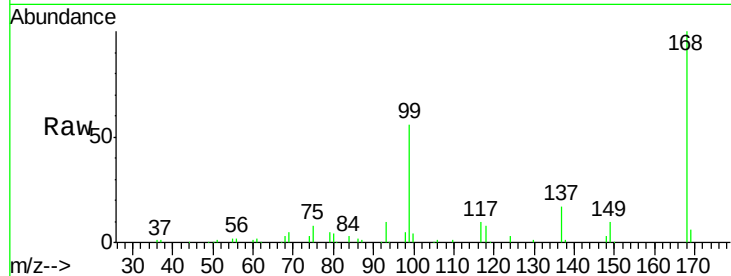




#36
 1,1-Dichloropropene
 Concen: 5.360 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD062003.D
 Acq: 24 Apr 2019 17:51

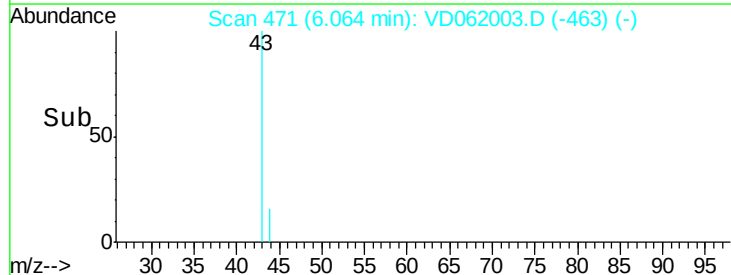
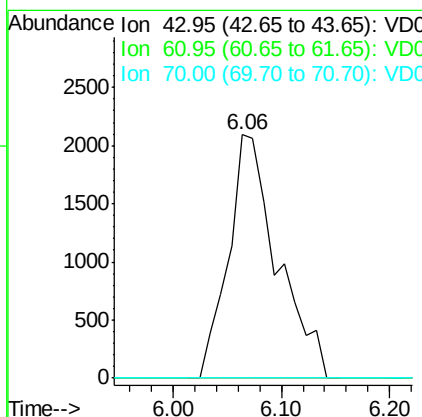
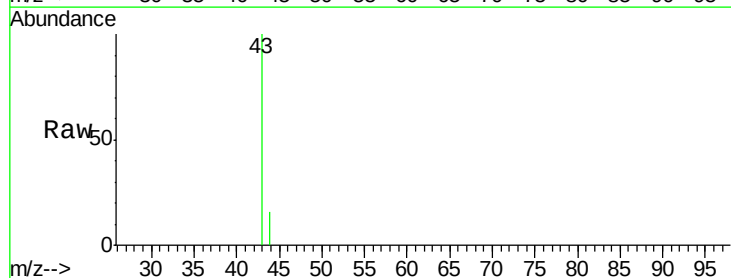
Instrument :
 MSVOA_D
 ClientSampleId :

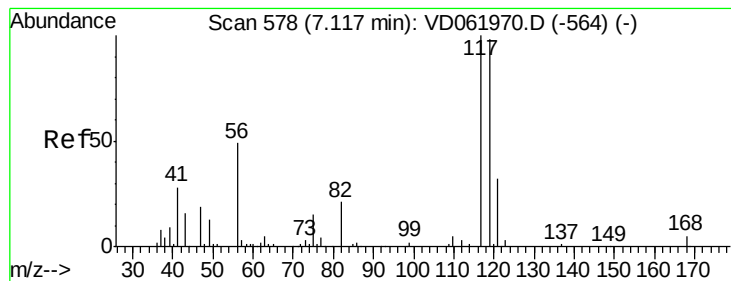
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	19.1	57.1#
77	0.0	25.6	38.4#



#37
 Ethyl Acetate
 Concen: 2.647 ug/l
 RT: 6.06 min Scan# 471
 Delta R.T. -0.12 min
 Lab File: VD062003.D
 Acq: 24 Apr 2019 17:51

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.7	22.1#
70	0.0	7.8	11.6#





#38

Carbon Tetrachloride

Concen: 5.707 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

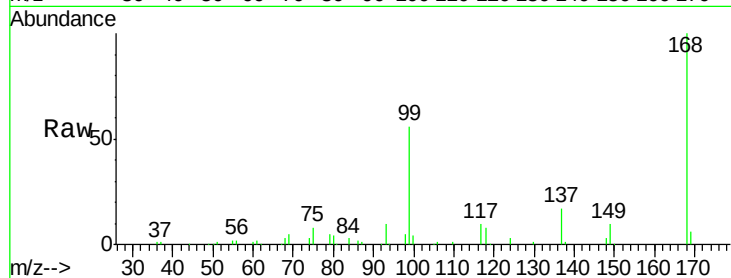
Tot Ion:117 Resp: 42380

Ion Ratio Lower Upper

117 100

119 3.4 75.8 113.8#

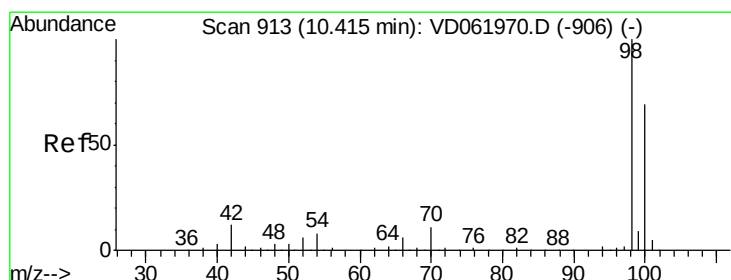
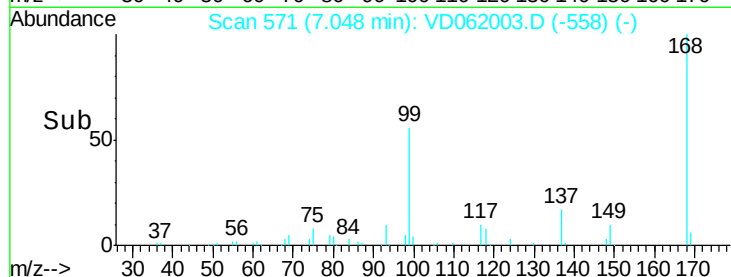
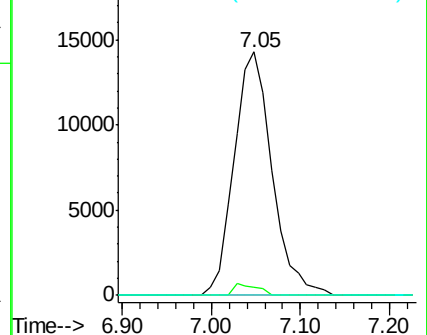
121 0.0 25.9 38.9#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD062003.D

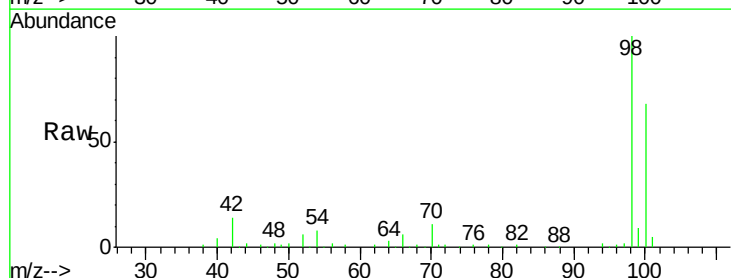
Acq: 24 Apr 2019 17:51

Tgt Ion: 98 Resp: 462430

Ion Ratio Lower Upper

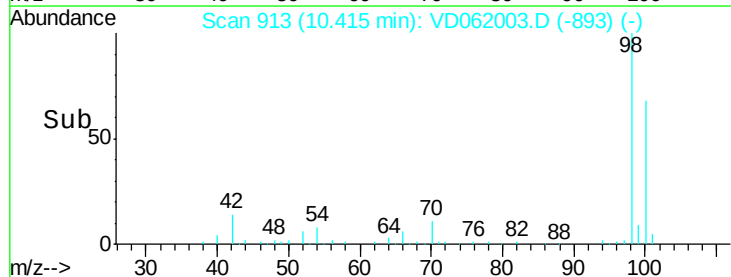
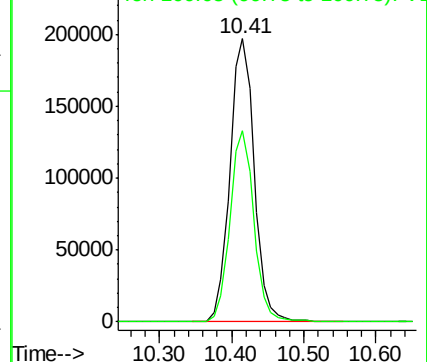
98 100

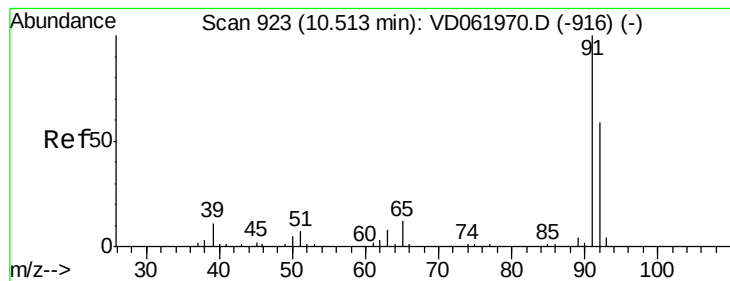
100 67.7 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 3.224 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

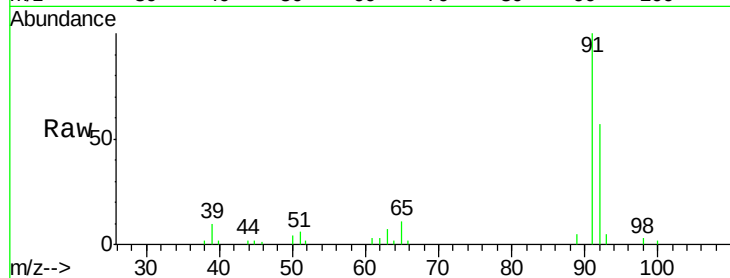
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 29818

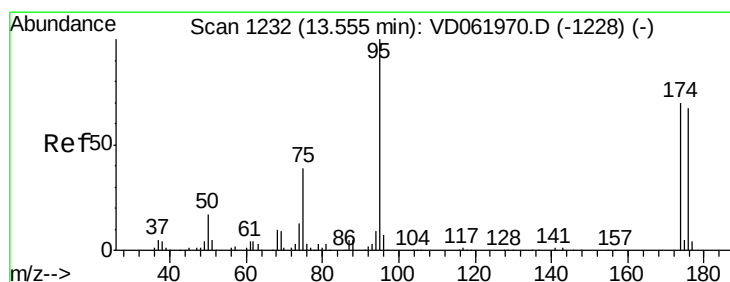
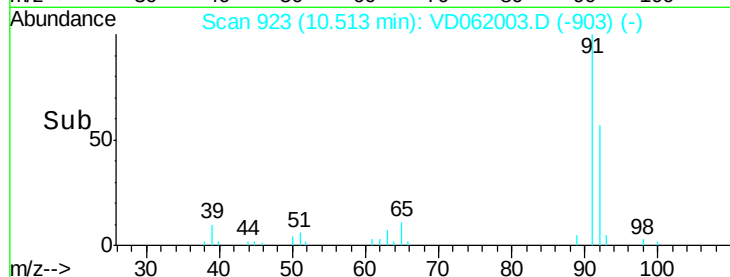
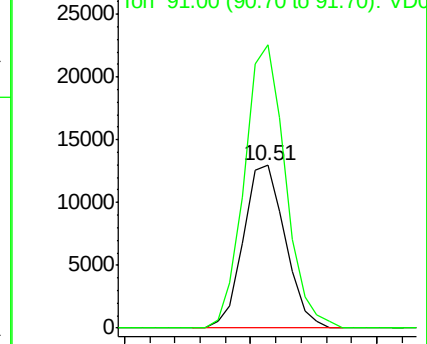
Ion Ratio Lower Upper

92 100

91 174.1 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062003.D

Acq: 24 Apr 2019 17:51

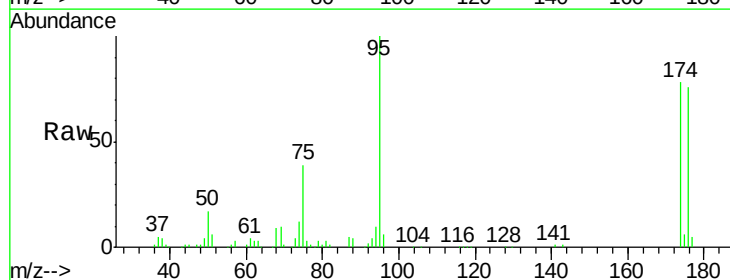
Tgt Ion: 95 Resp: 173253

Ion Ratio Lower Upper

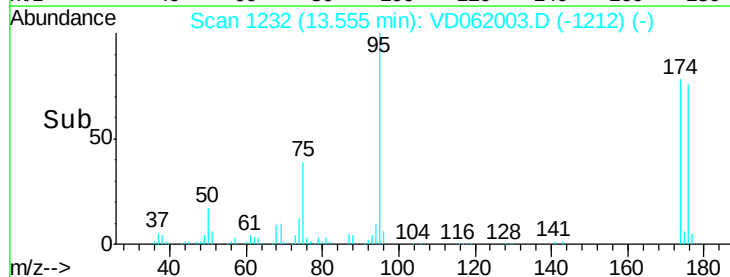
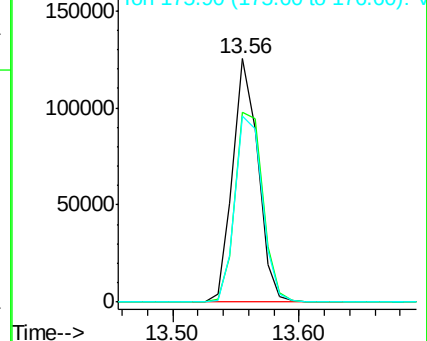
95 100

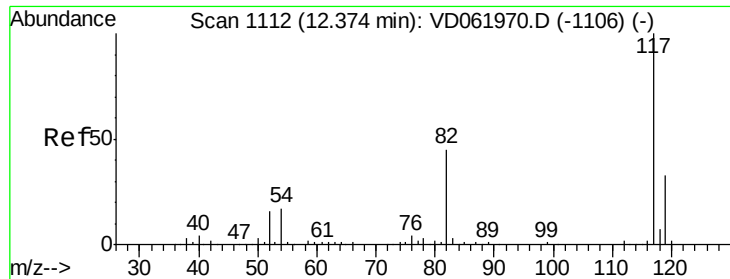
174 77.8 0.0 181.8

176 76.2 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

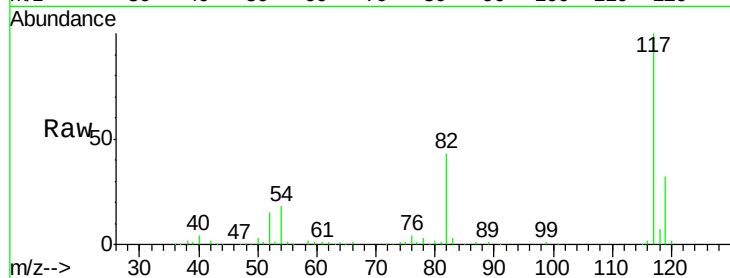




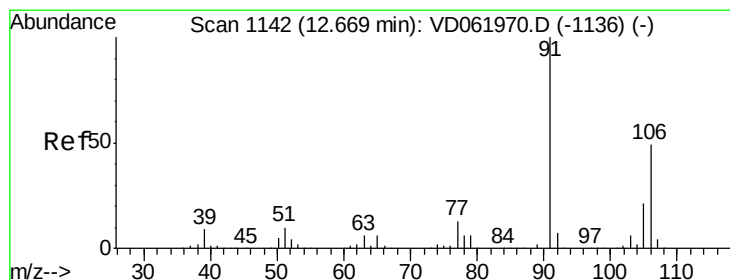
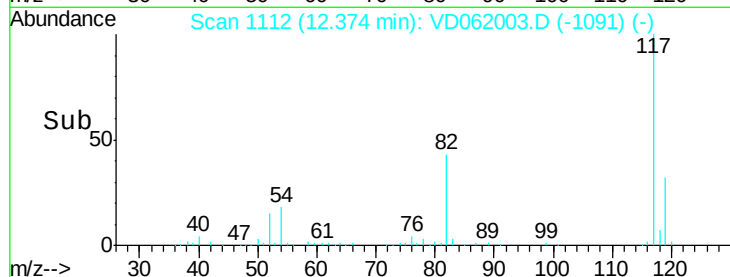
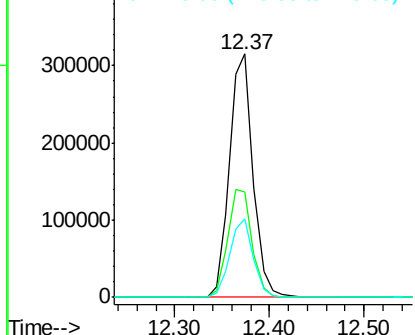
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062003.D
Acq: 24 Apr 2019 17:51

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 540092
Ion Ratio Lower Upper
117 100
82 43.5 36.2 54.2
119 32.3 26.2 39.4

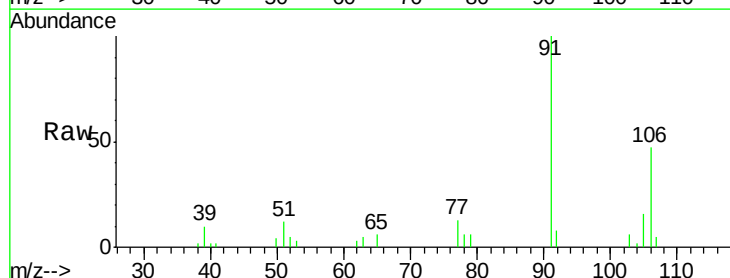


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

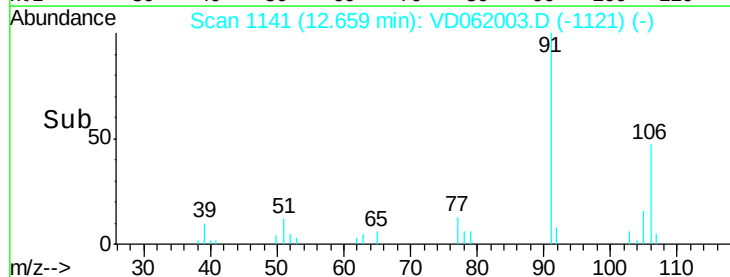
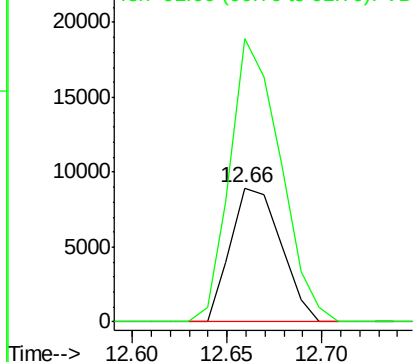


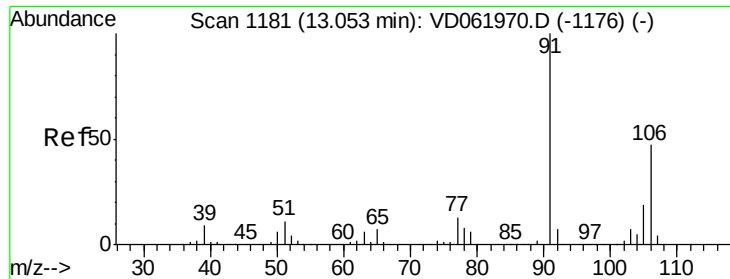
#68
m/p-Xylenes
Concen: 2.754 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VD062003.D
Acq: 24 Apr 2019 17:51

Tgt Ion:106 Resp: 16581
Ion Ratio Lower Upper
106 100
91 210.9 164.0 246.0



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

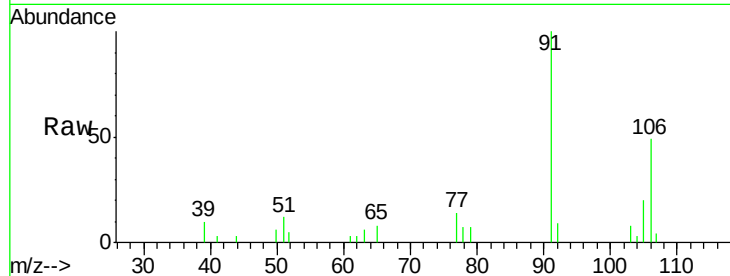




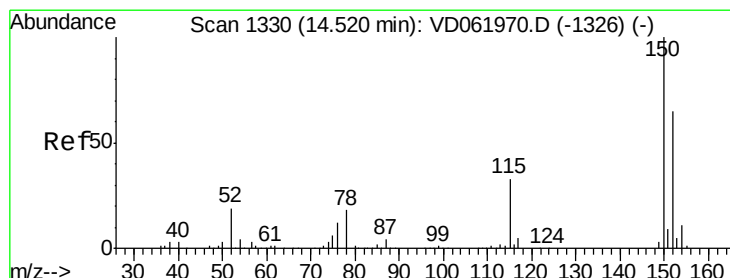
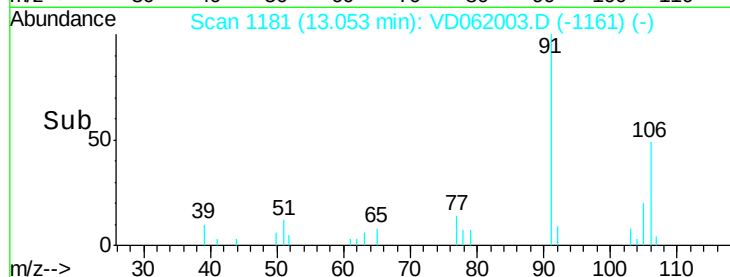
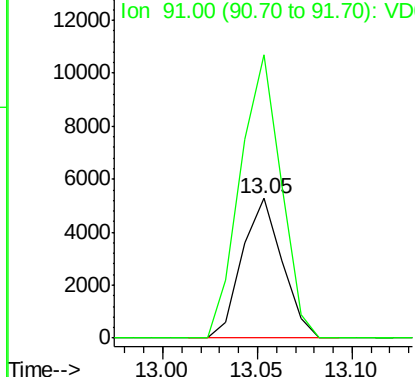
#69
o-Xylene
Concen: 1.403 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD062003.D
Acq: 24 Apr 2019 17:51

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 7728
Ion Ratio Lower Upper
106 100
91 202.5 106.7 319.9

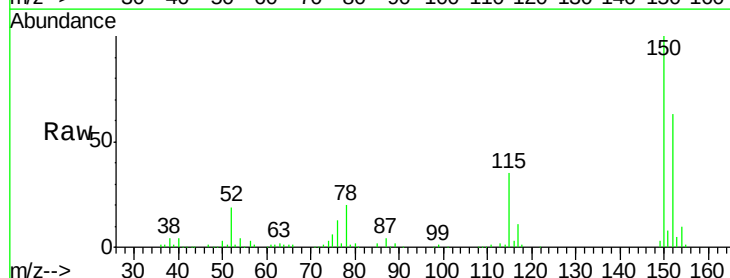


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

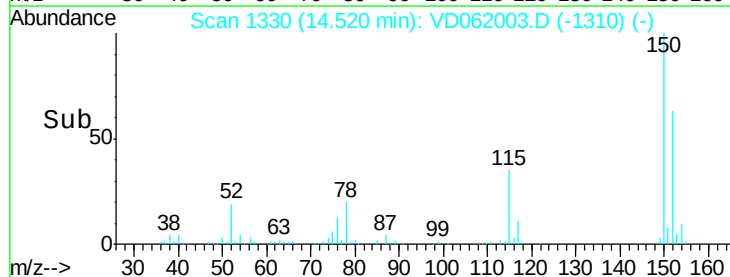
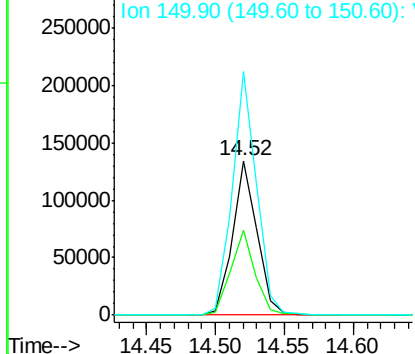


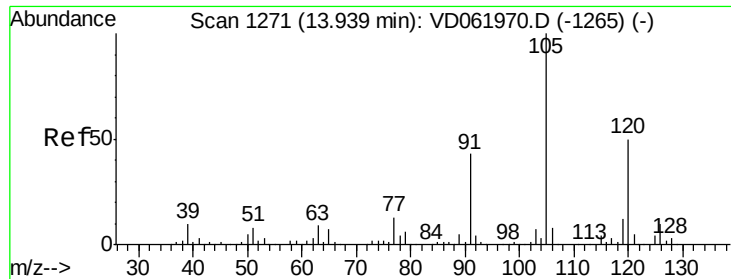
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD062003.D
Acq: 24 Apr 2019 17:51

Tgt Ion:152 Resp: 165518
Ion Ratio Lower Upper
152 100
115 54.9 30.9 92.7
150 157.8 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

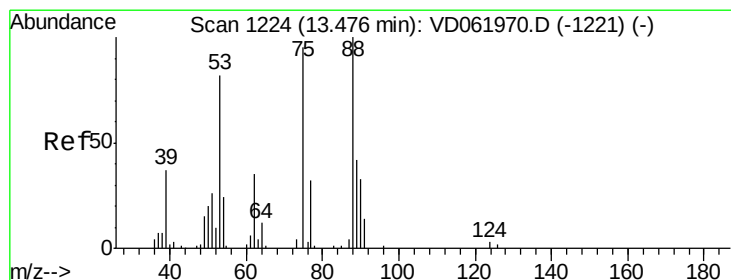
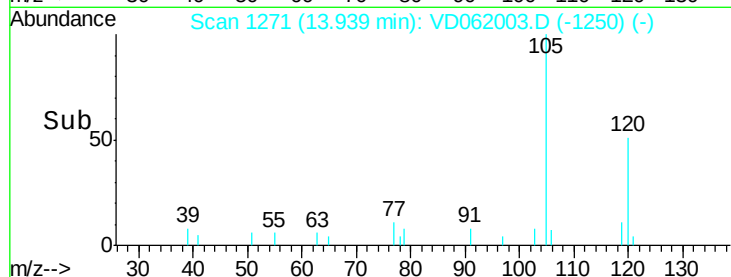
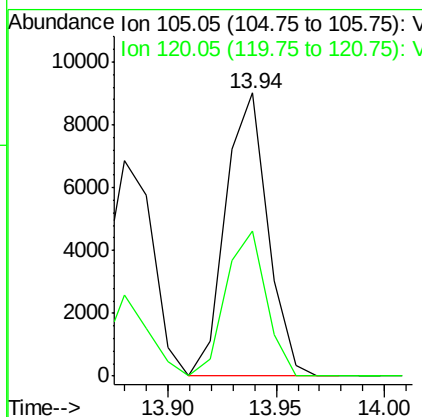
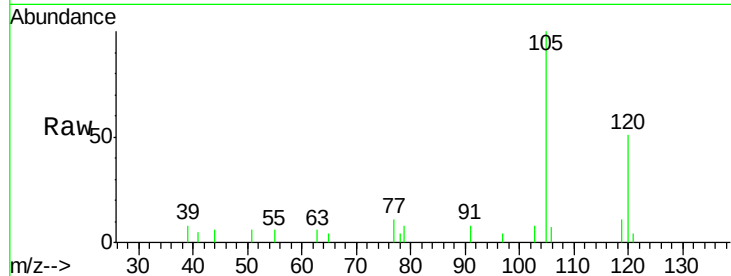




#80
 1,3,5-Trimethylbenzene
 Concen: 1.390 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD062003.D
 Acq: 24 Apr 2019 17:51

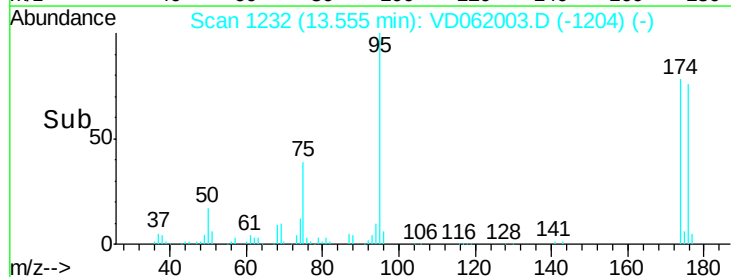
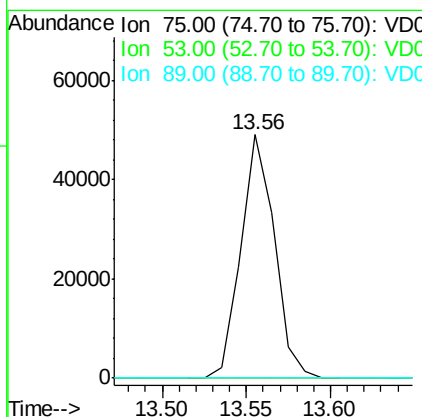
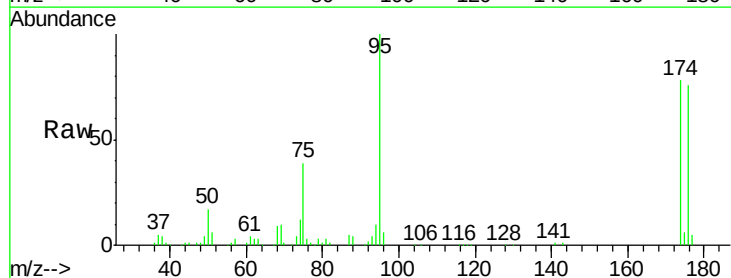
Instrument :
 MSVOA_D
 ClientSampleId :

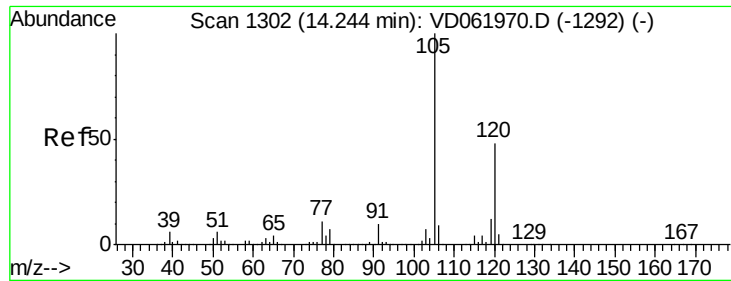
Tot Ion:105 Resp: 12233
 Ion Ratio Lower Upper
 105 100
 120 51.1 24.0 72.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 106.409 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. 0.07 min
 Lab File: VD062003.D
 Acq: 24 Apr 2019 17:51

Tgt Ion: 75 Resp: 67776
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.8 98.8#
 89 0.0 35.0 52.6#

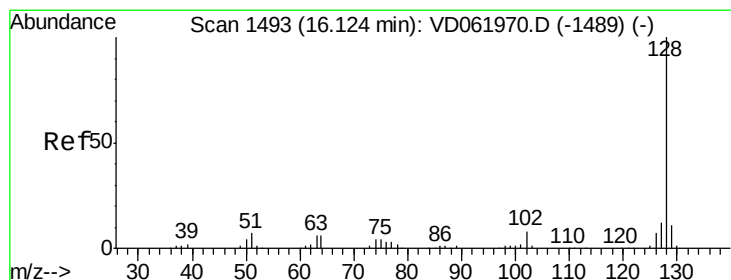
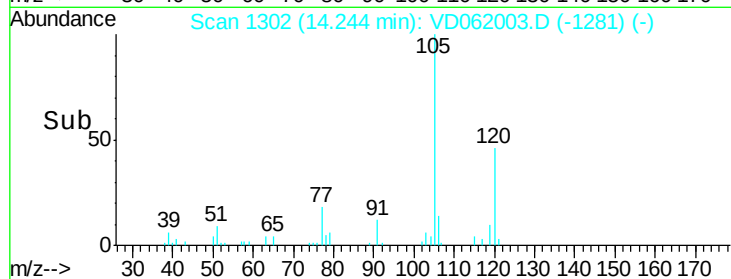
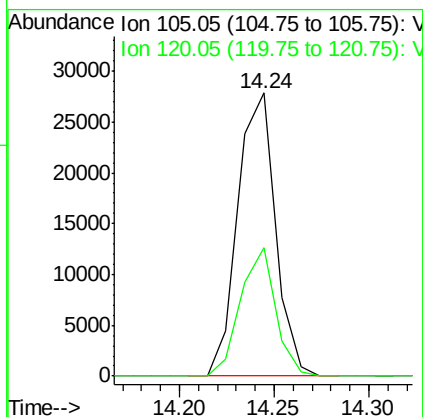
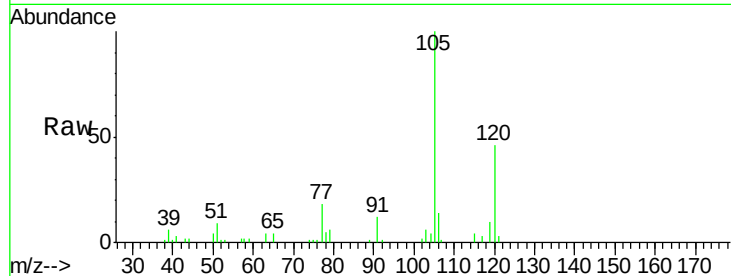




#84
 1,2,4-Trimethylbenzene
 Concen: 4.548 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD062003.D
 Acq: 24 Apr 2019 17:51

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:105 Resp: 38235
 Ion Ratio Lower Upper
 105 100
 120 45.6 23.1 69.2



#95
 Naphthalene
 Concen: 6.637 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VD062003.D
 Acq: 24 Apr 2019 17:51

Tgt Ion:128 Resp: 26453
 Ion Ratio Lower Upper
 128 100
 127 12.1 9.8 14.8
 129 9.2 8.8 13.2

