

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041919\
 Data File : VD061917.D
 Acq On : 19 Apr 2019 18:41
 Operator : VA/AP
 Sample : K2198-05
 Misc : 7.19g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 19 23:10:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	324599	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	479068	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	202655	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	96470	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	187339	68.86	ug/l	0.00
Spiked Amount			Recovery	=	137.72%	
35) Dibromofluoromethane	6.94	113	258000	71.28	ug/l	0.01
Spiked Amount			Recovery	=	142.56%	
50) Toluene-d8	10.42	98	138862	16.19	ug/l	0.01
Spiked Amount			Recovery	=	32.38%	
62) 4-Bromofluorobenzene	13.56	95	137246	39.48	ug/l	0.00
Spiked Amount			Recovery	=	78.96%	

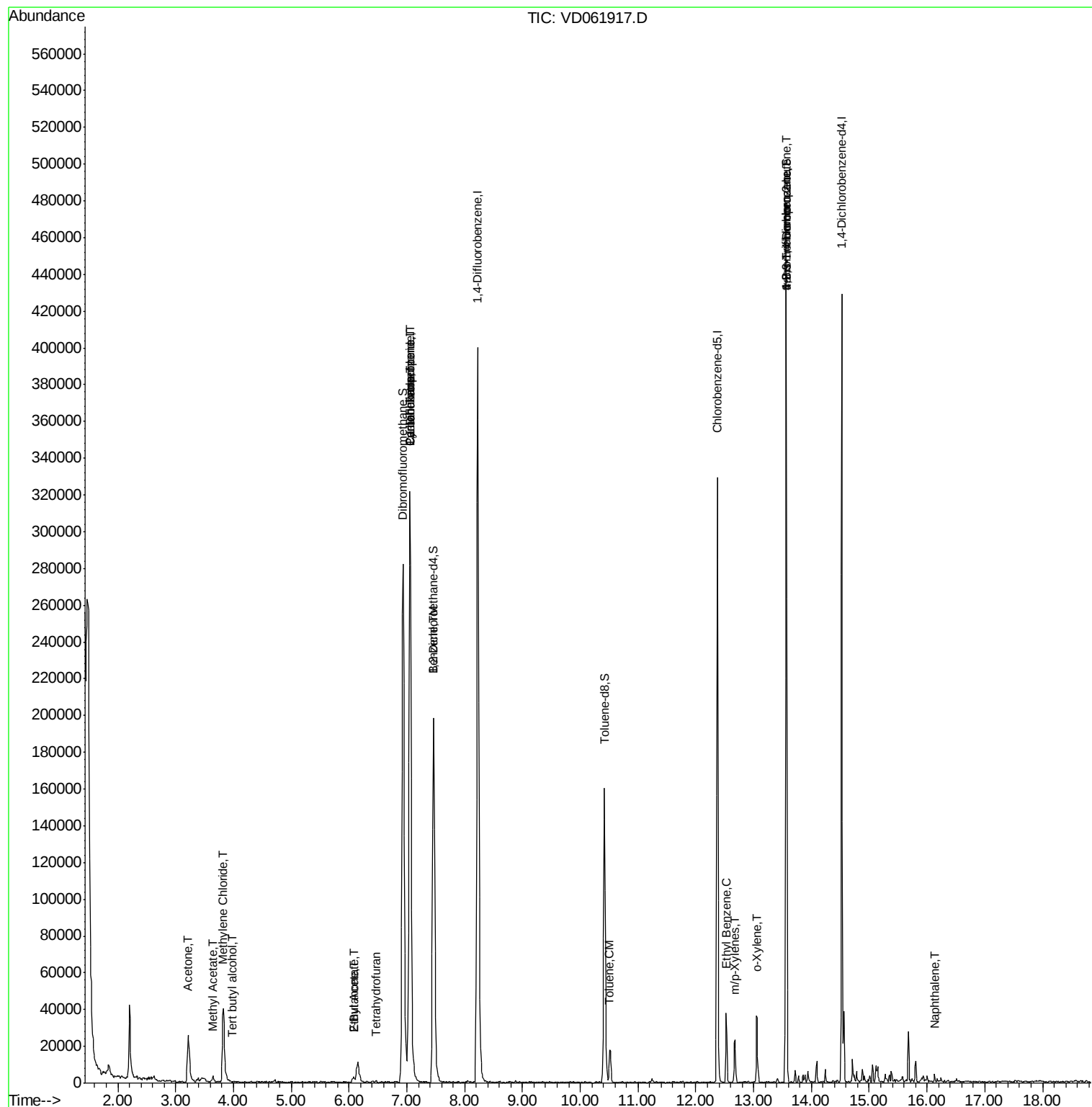
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	384	Below Cal	#	1
11) Tert butyl alcohol	3.98	59	221	1.378	ug/l #	76
16) Acetone	3.21	43	48247	71.958	ug/l	95
18) Methyl Acetate	3.65	43	5035	3.747	ug/l	94
20) Methylene Chloride	3.82	84	29494	4.693	ug/l	93
25) 2-Butanone	6.08	43	8037	10.529	ug/l	97
29) Tetrahydrofuran	6.46	42	599	1.611	ug/l #	30
31) Cyclohexane	7.05	56	5598	1.359	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	23174	5.920	ug/l #	45
37) Ethyl Acetate	6.08	43	8037	4.797	ug/l #	64
38) Carbon Tetrachloride	7.05	117	31536	6.380	ug/l #	15
40) Benzene	7.47	78	24128	2.567	ug/l	96
52) Toluene	10.52	92	10930	1.815	ug/l	95
67) Ethyl Benzene	12.53	91	27001	4.467	ug/l #	89
68) m/p-Xylenes	12.67	106	9348	4.117	ug/l	89
69) o-Xylene	13.05	106	10427	4.886	ug/l	98
76) 1,2,3-Trichloropropane	13.56	75	35479	28.004	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.56	75	50119	117.265	ug/l #	16
95) Naphthalene	16.13	128	3170	1.449	ug/l #	80

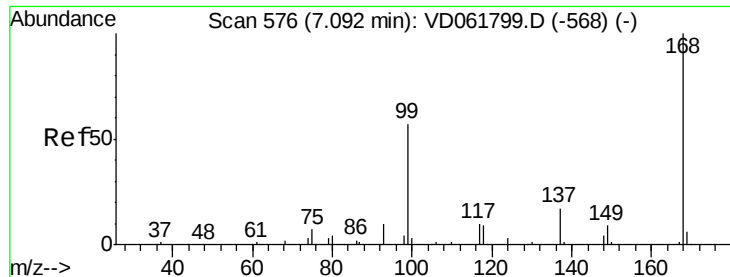
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 18 13:49:04 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.00 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

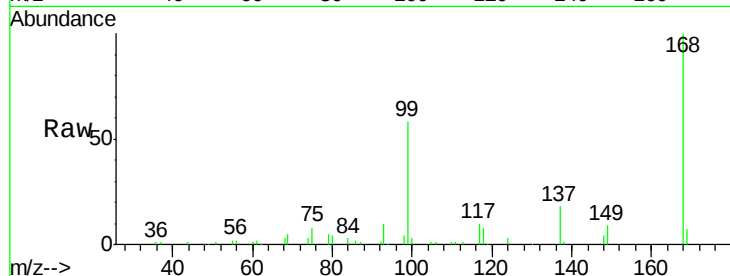
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 324599

Ion Ratio Lower Upper

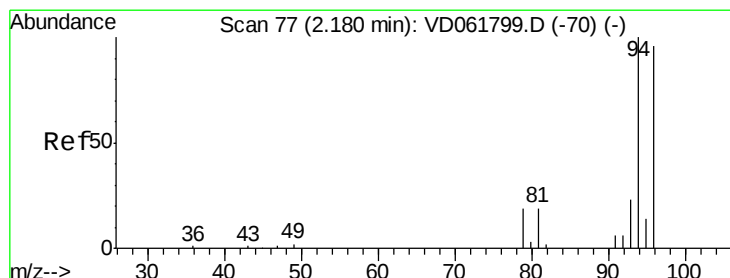
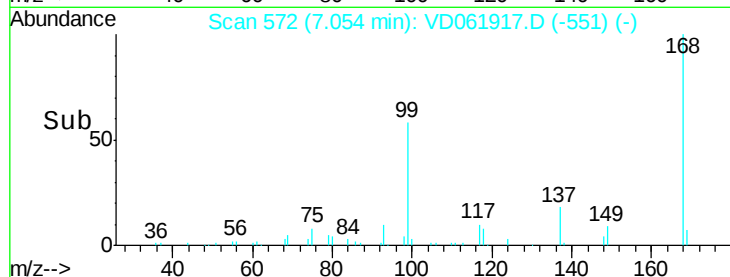
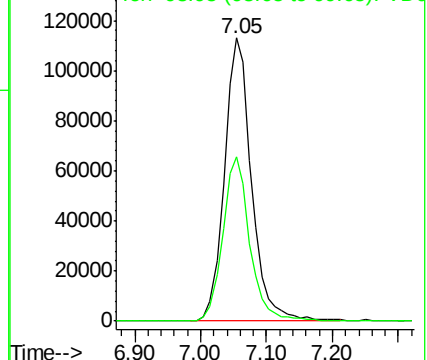
168 100

99 57.9 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.15 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

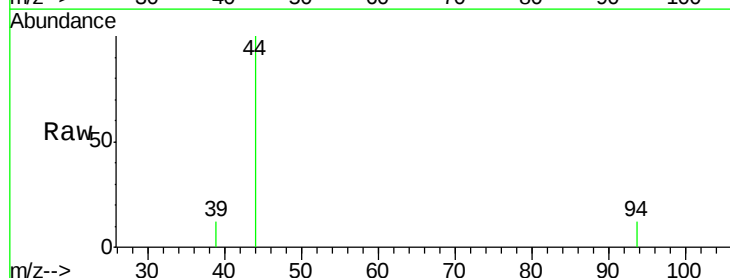
Tgt Ion: 94 Resp: 384

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

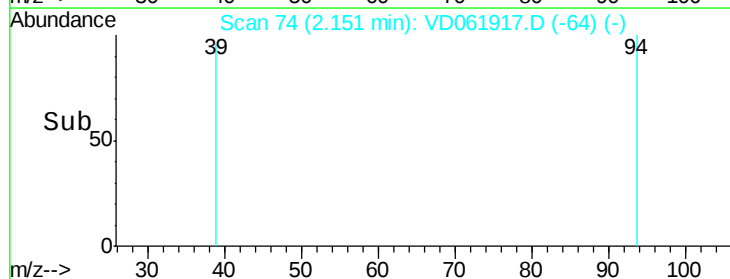
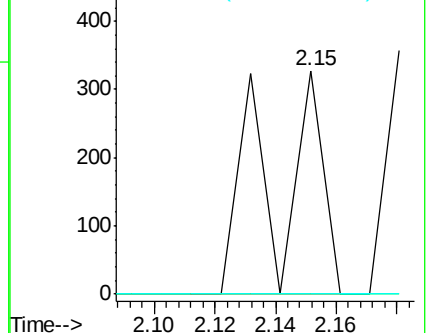
93 100.0 18.5 27.7#

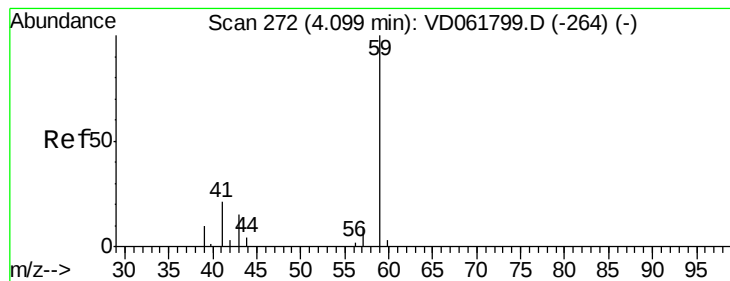


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



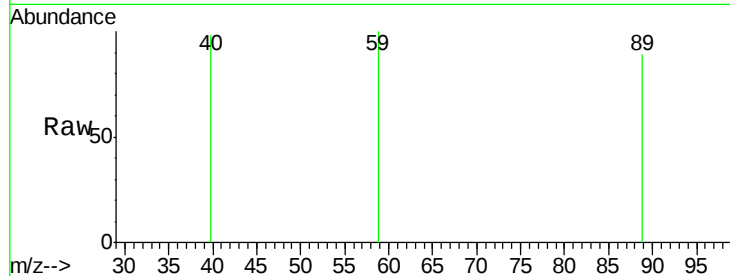


#11

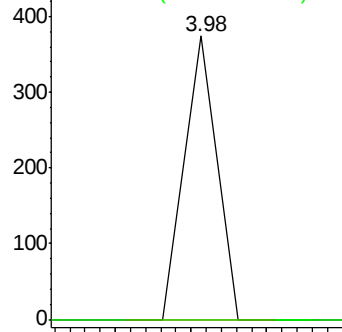
Tert butyl alcohol
 Concen: 1.378 ug/l
 RT: 3.98 min Scan# 260
 Delta R.T. -0.08 min
 Lab File: VD061917.D
 Acq: 19 Apr 2019 18:41

Instrument :
 MSVOA_D
 ClientSampled :

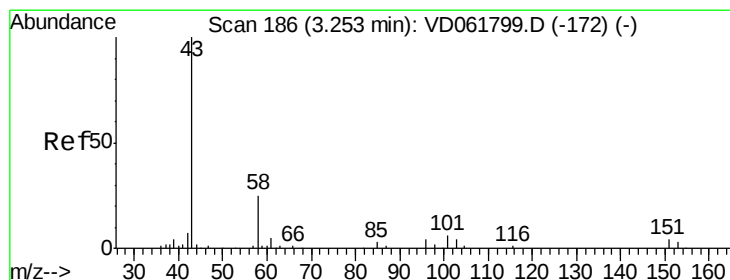
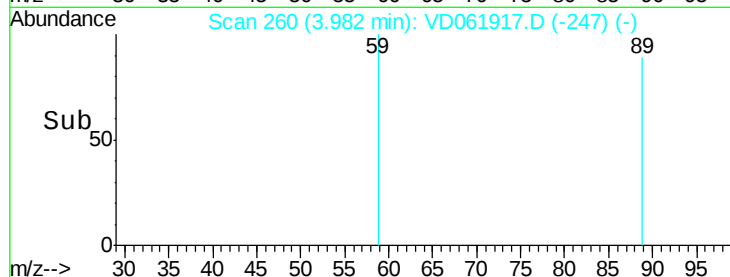
Tot Ion: 59 Resp: 221
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



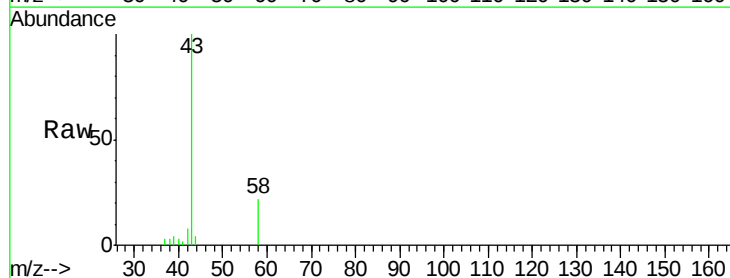
Time-->



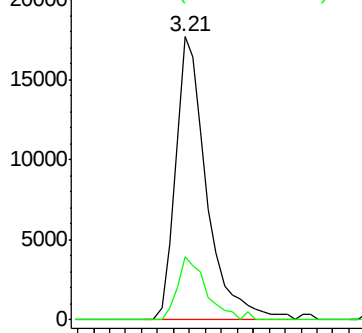
#16

Acetone
 Concen: 71.958 ug/l
 RT: 3.21 min Scan# 182
 Delta R.T. 0.00 min
 Lab File: VD061917.D
 Acq: 19 Apr 2019 18:41

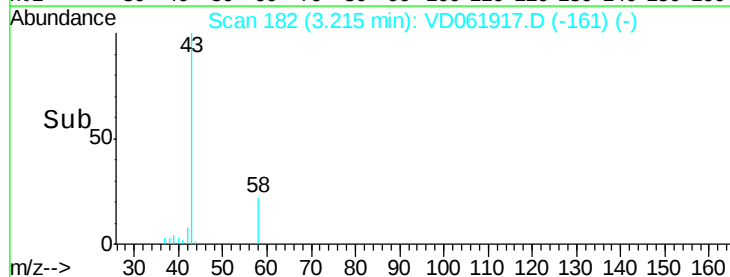
Tgt Ion: 43 Resp: 48247
 Ion Ratio Lower Upper
 43 100
 58 22.4 19.9 29.9

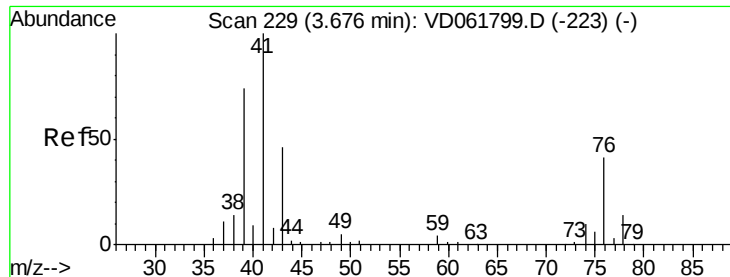


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC



Time-->

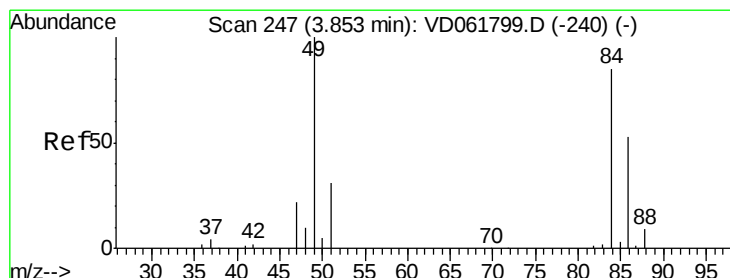
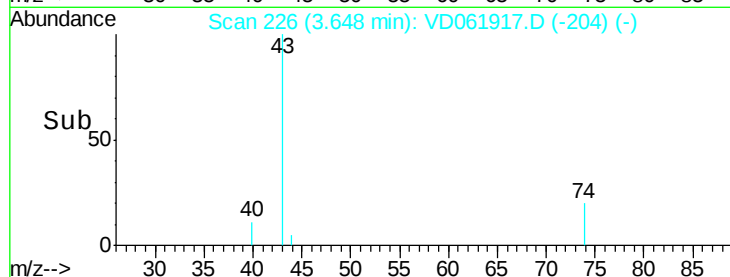
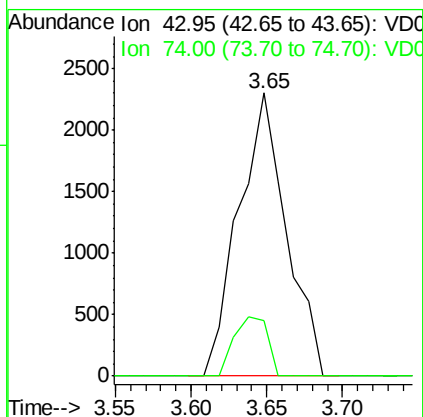
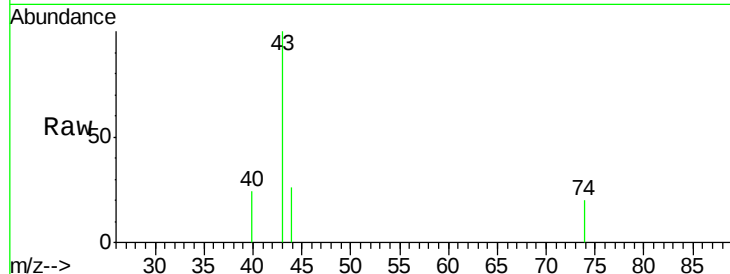




#18
Methyl Acetate
Concen: 3.747 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD061917.D
Acq: 19 Apr 2019 18:41

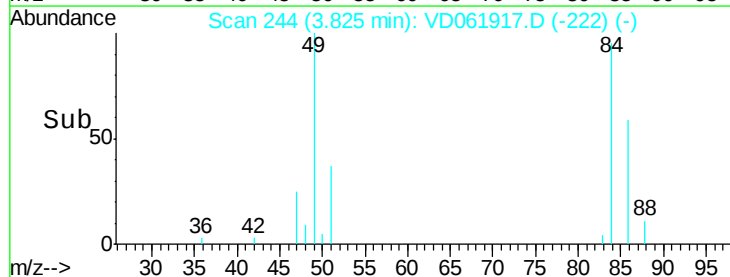
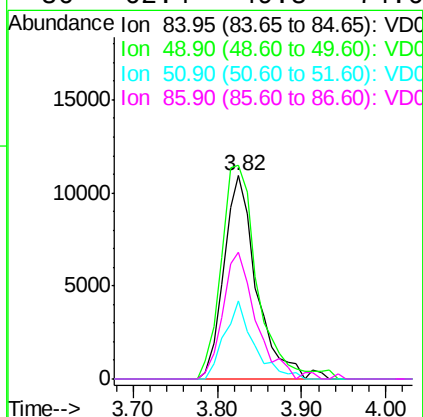
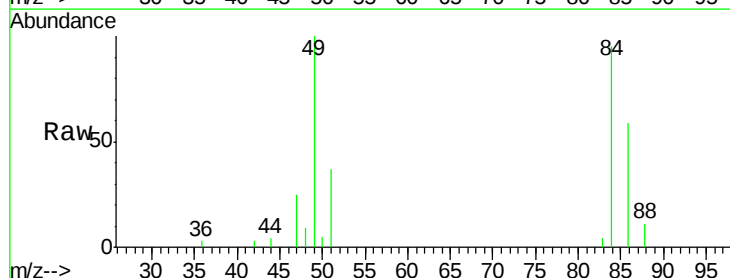
Instrument :
MSVOA_D
ClientSampleId :

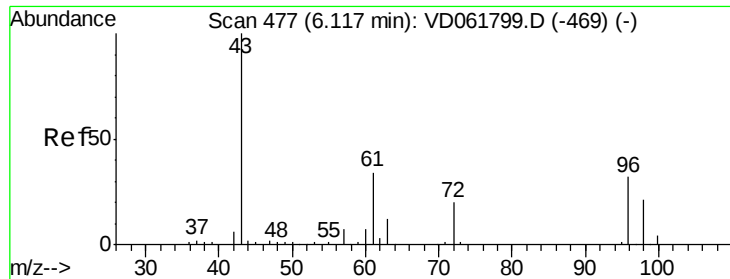
Tot Ion: 43 Resp: 5035
Ion Ratio Lower Upper
43 100
74 19.8 18.0 27.0



#20
Methylene Chloride
Concen: 4.693 ug/l
RT: 3.82 min Scan# 244
Delta R.T. 0.01 min
Lab File: VD061917.D
Acq: 19 Apr 2019 18:41

Tgt Ion: 84 Resp: 29494
Ion Ratio Lower Upper
84 100
49 105.1 94.0 141.0
51 38.5 29.0 43.4
86 62.4 49.8 74.6





#25

2-Butanone

Concen: 10.529 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

Instrument :

MSVOA_D

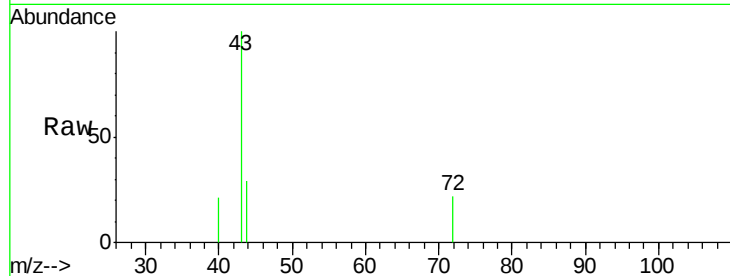
ClientSampleId :

Tot Ion: 43 Resp: 8037

Ion Ratio Lower Upper

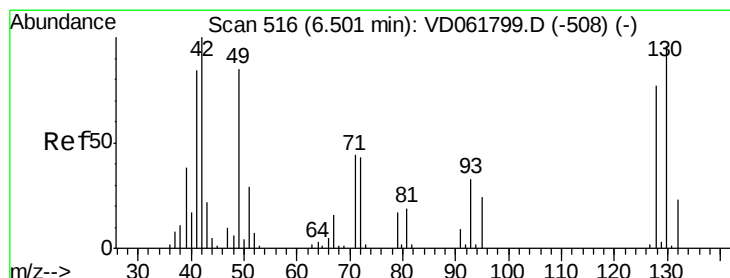
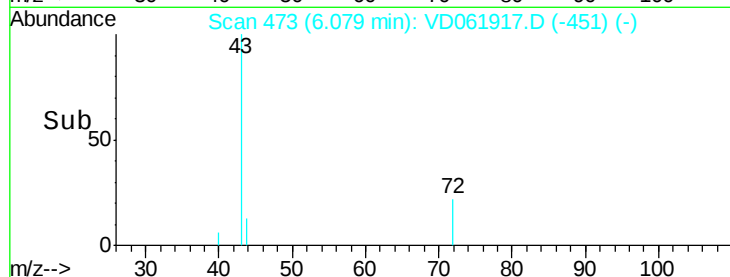
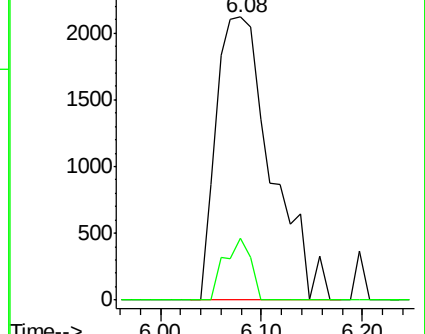
43 100

72 21.8 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.611 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

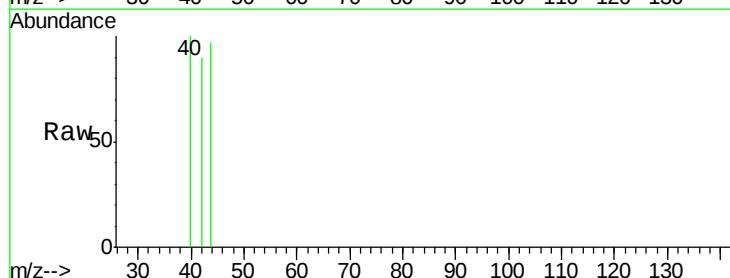
Tgt Ion: 42 Resp: 599

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

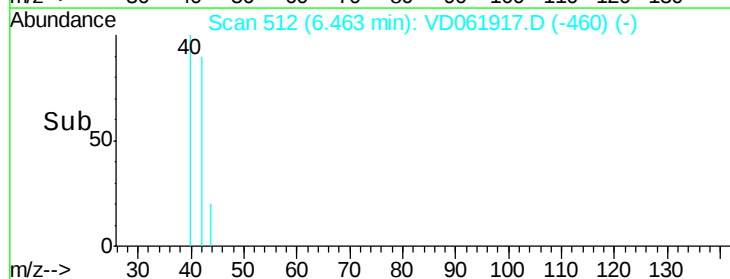
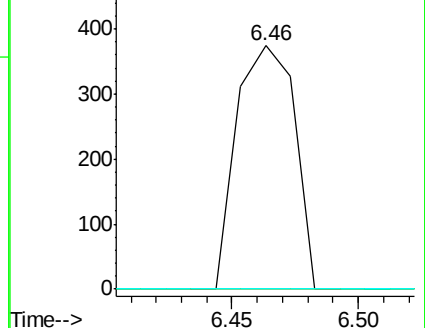
71 0.0 36.7 55.1#

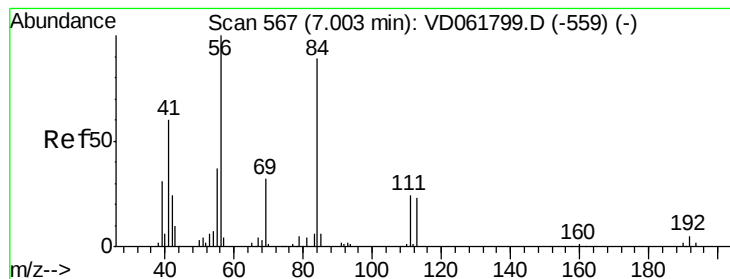


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cvclohexane

Concen: 1.359 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.10 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

Instrument :
MSVOA_D
ClientSampleId :

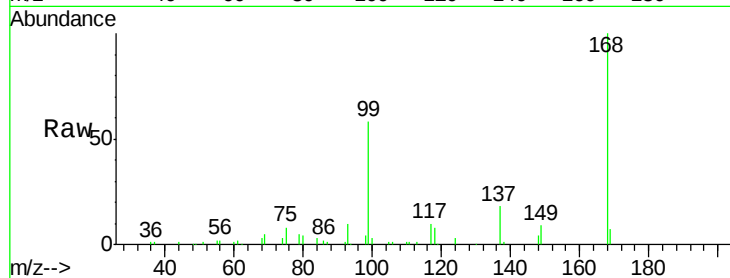
Tot Ion: 56 Resp: 5598

Ion Ratio Lower Upper

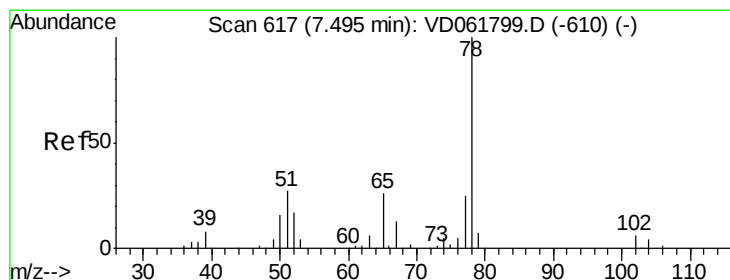
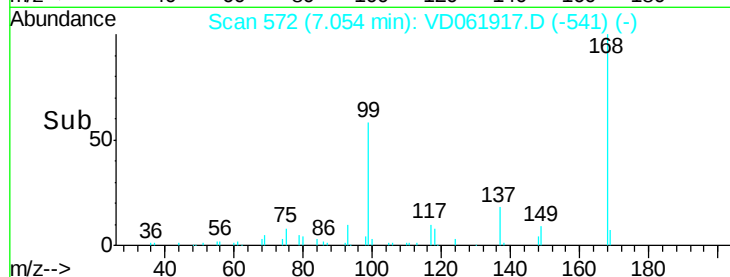
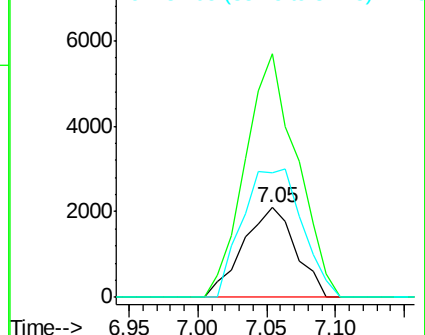
56 100

69 271.5 25.8 38.6#

84 138.8 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: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD061917.D

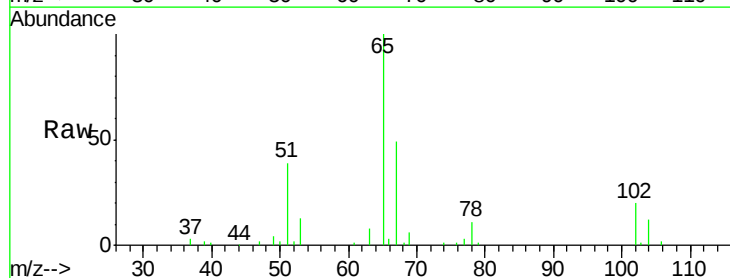
Acq: 19 Apr 2019 18:41

Tgt Ion: 65 Resp: 187339

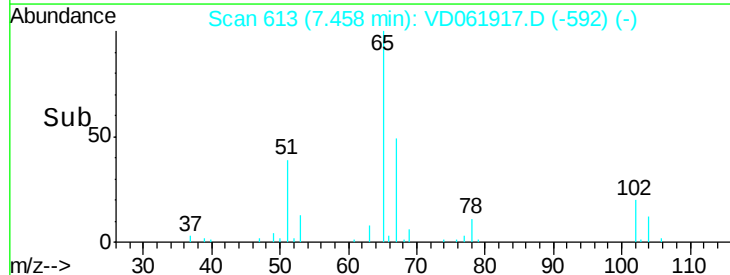
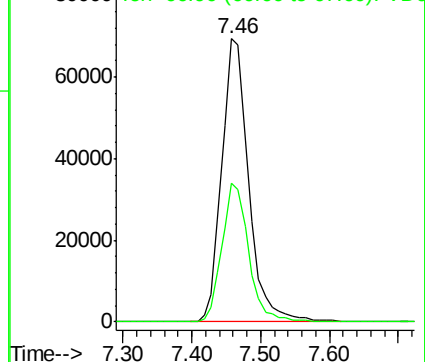
Ion Ratio Lower Upper

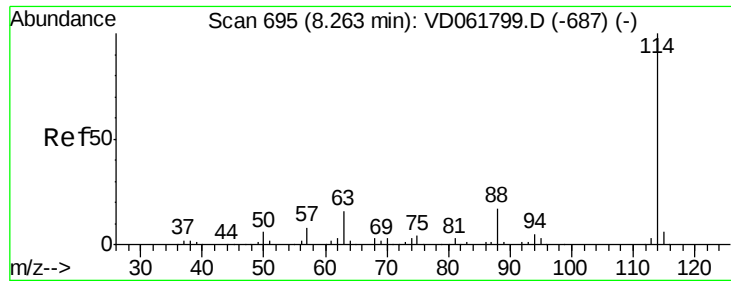
65 100

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

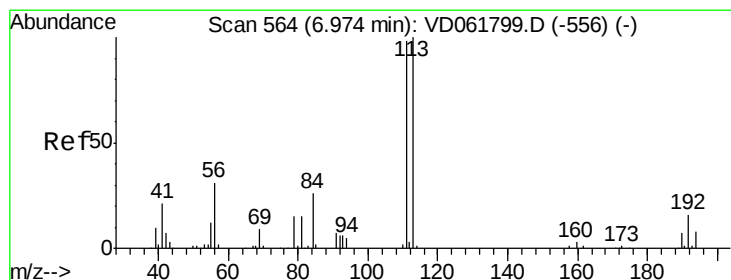
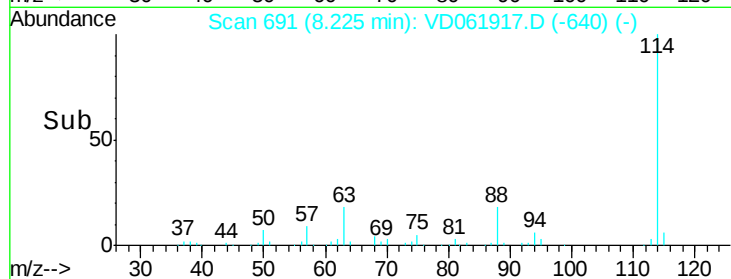
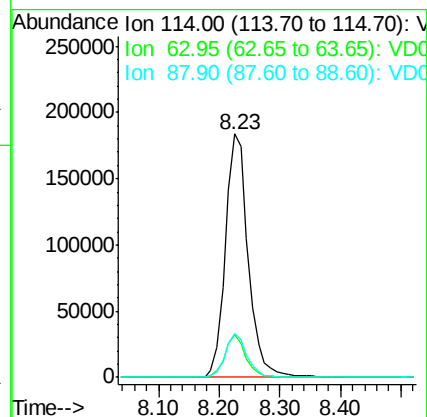
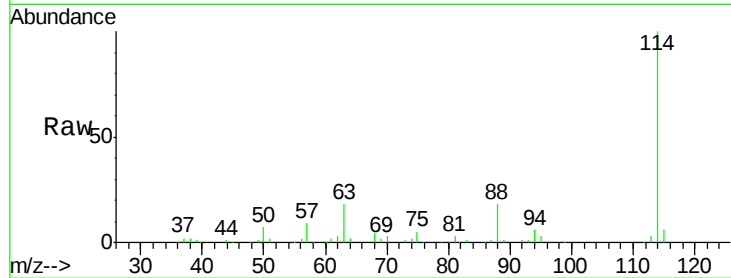




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VD061917.D
 Acq: 19 Apr 2019 18:41

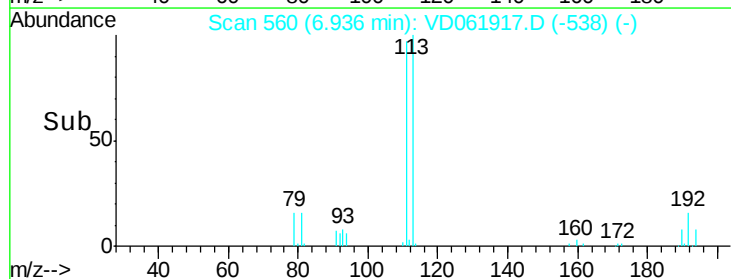
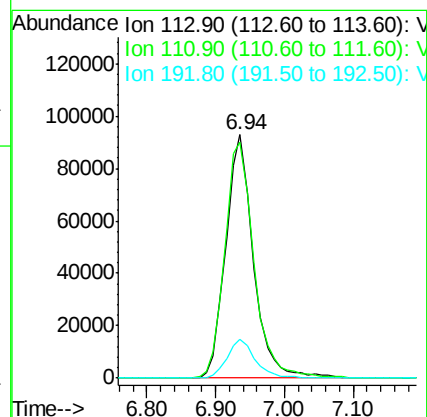
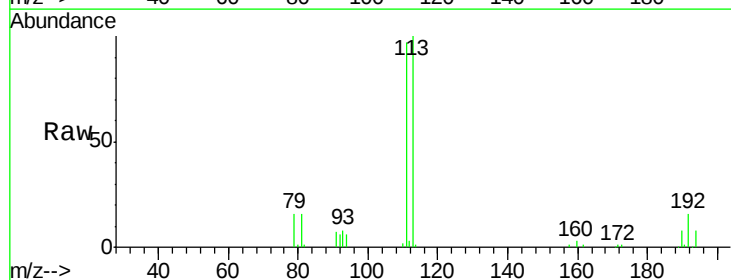
Instrument :
 MSVOA_D
 ClientSampleId :

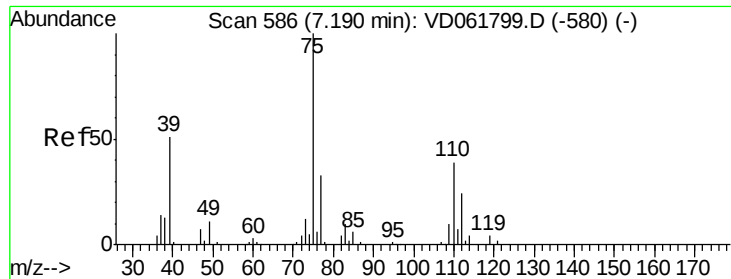
Tot Ion:114 Resp: 479068
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 32.4
 88 17.9 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.01 min
 Lab File: VD061917.D
 Acq: 19 Apr 2019 18:41

Tgt Ion:113 Resp: 258000
 Ion Ratio Lower Upper
 113 100
 111 96.7 78.5 117.7
 192 16.1 13.0 19.4

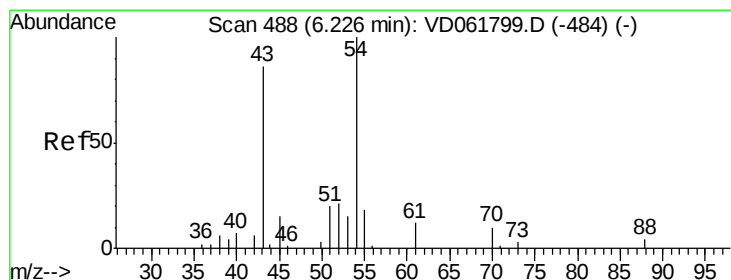
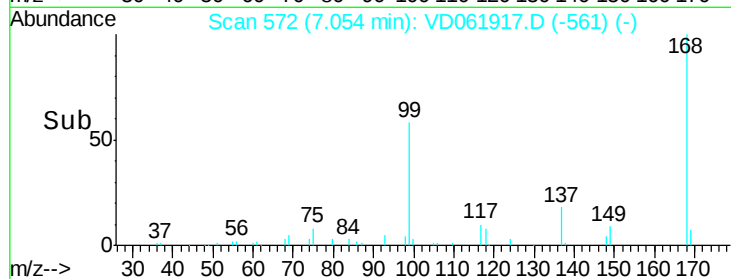
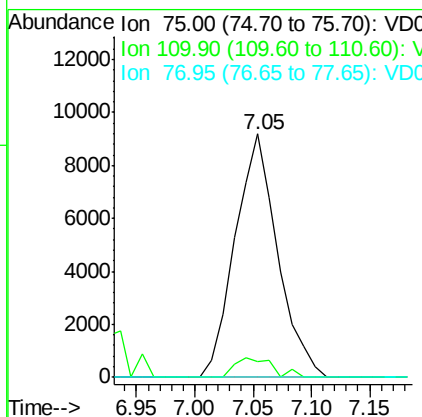
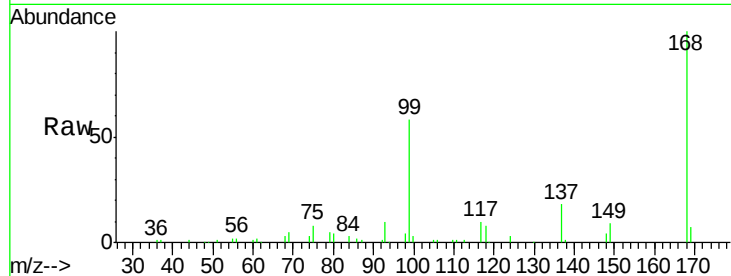




#36
 1,1-Dichloropropene
 Concen: 5.920 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.10 min
 Lab File: VD061917.D
 Acq: 19 Apr 2019 18:41

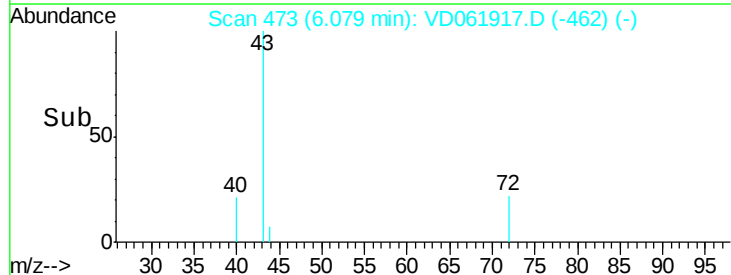
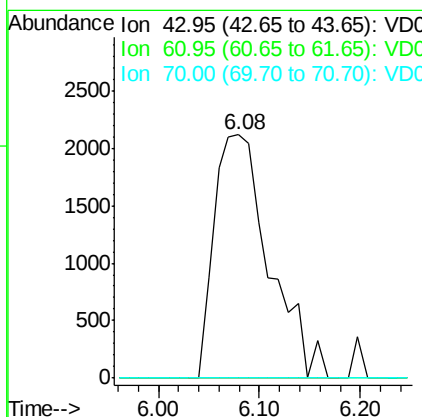
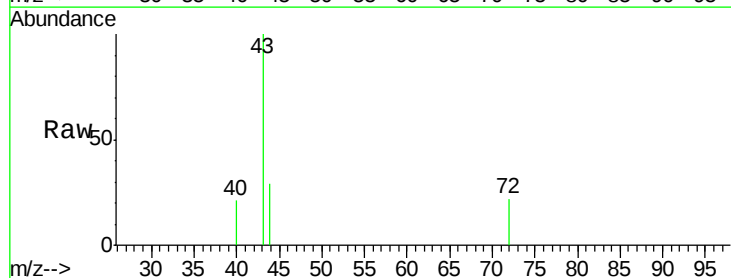
Instrument :
 MSVOA_D
 ClientSampleId :

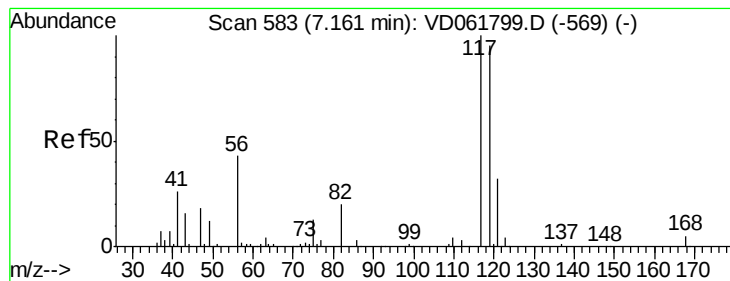
Tot Ion: 75 Resp: 23174
 Ion Ratio Lower Upper
 75 100
 110 6.5 19.1 57.1#
 77 0.0 25.6 38.4#



#37
 Ethyl Acetate
 Concen: 4.797 ug/l
 RT: 6.08 min Scan# 473
 Delta R.T. -0.10 min
 Lab File: VD061917.D
 Acq: 19 Apr 2019 18:41

Tgt Ion: 43 Resp: 8037
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.7 22.1#
 70 0.0 7.8 11.6#





#38

Carbon Tetrachloride

Concen: 6.380 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

Instrument :
MSVOA_D
ClientSampled :

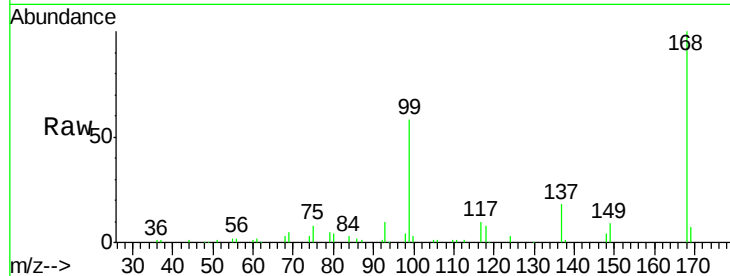
Tot Ion:117 Resp: 31536

Ion Ratio Lower Upper

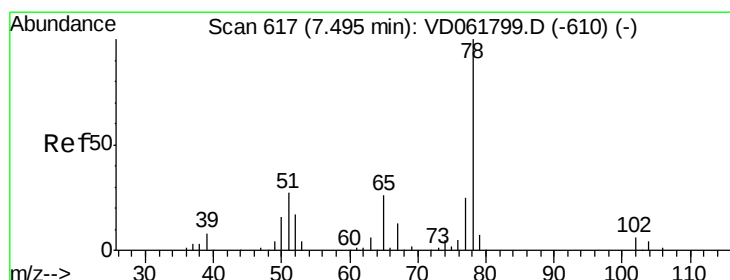
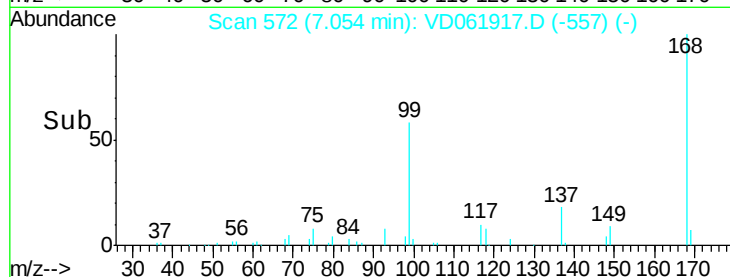
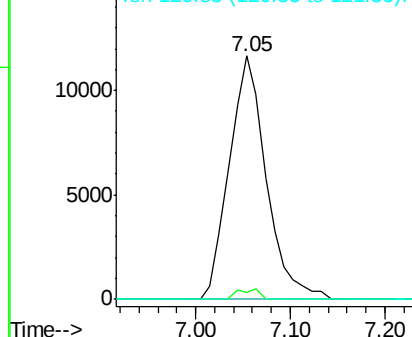
117 100

119 2.7 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



#40

Benzene

Concen: 2.567 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061917.D

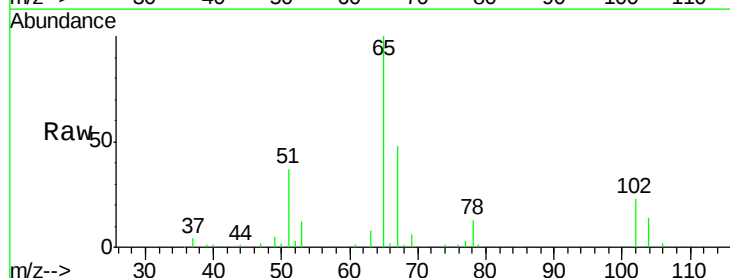
Acq: 19 Apr 2019 18:41

Tgt Ion: 78 Resp: 24128

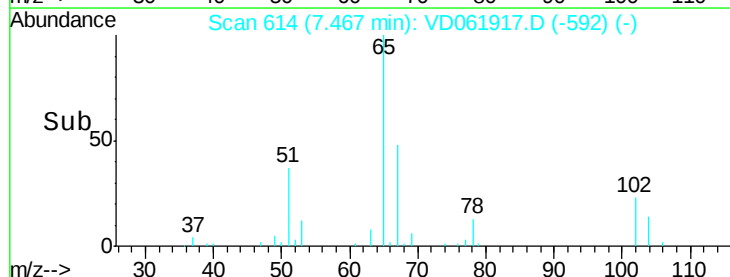
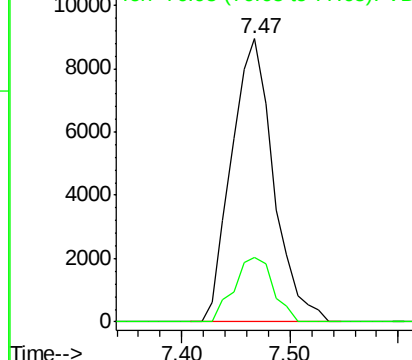
Ion Ratio Lower Upper

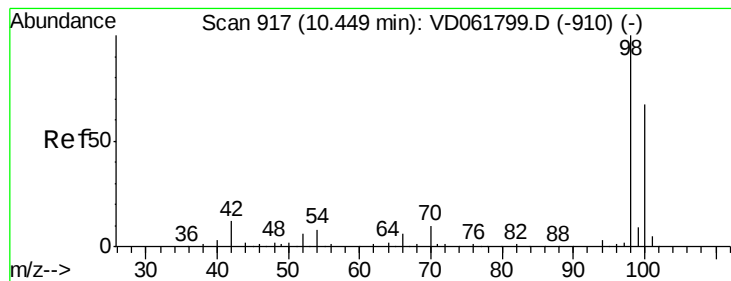
78 100

77 22.8 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): V
Ion 76.95 (76.65 to 77.65): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.01 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

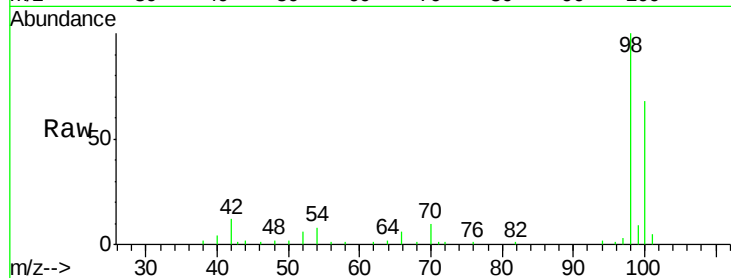
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 138862

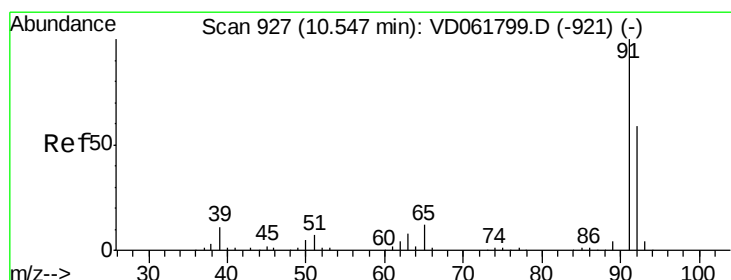
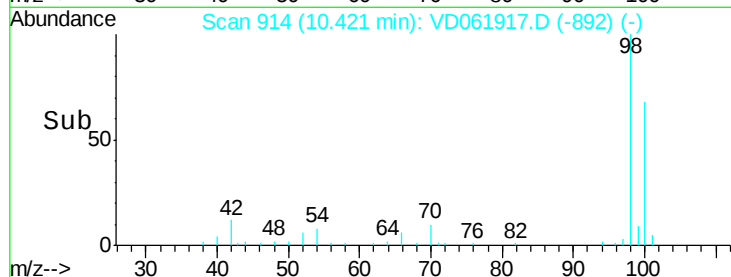
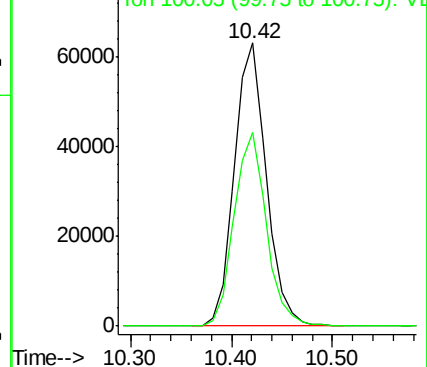
Ion Ratio Lower Upper

98 100

100 68.4 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 1.815 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD061917.D

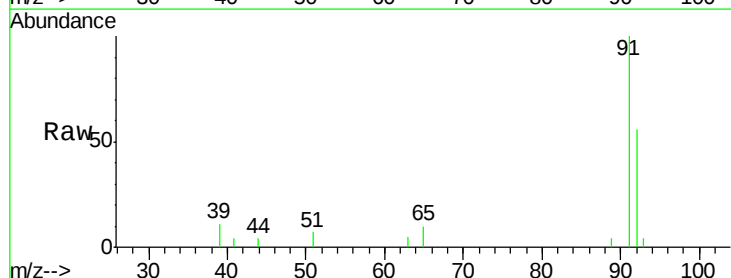
Acq: 19 Apr 2019 18:41

Tgt Ion: 92 Resp: 10930

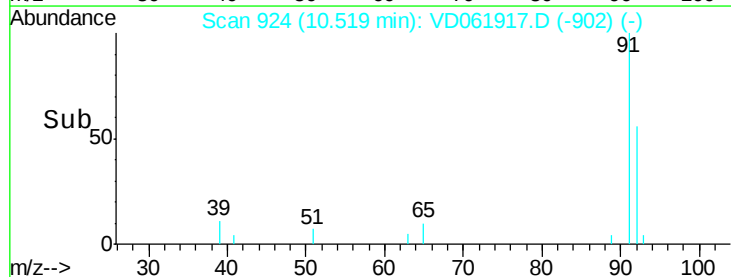
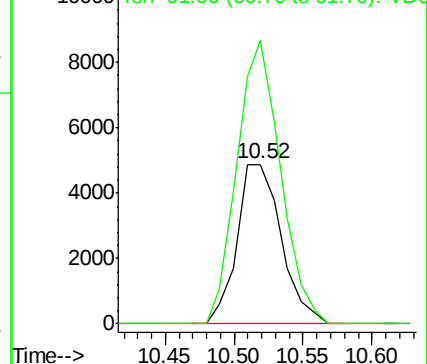
Ion Ratio Lower Upper

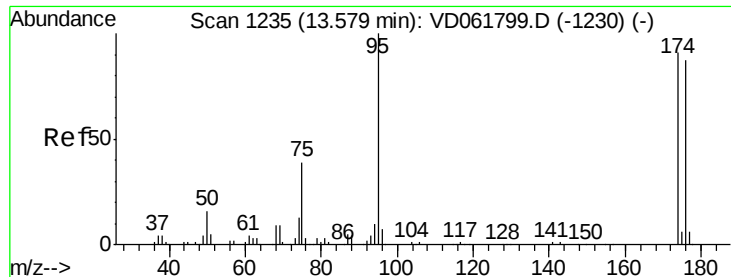
92 100

91 177.3 136.6 204.8



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# 1233

Delta R.T. 0.00 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

Instrument :

MSVOA_D

ClientSampleId :

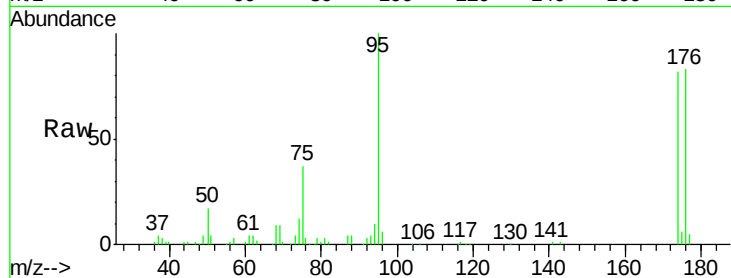
Tot Ion: 95 Resp: 137246

Ion Ratio Lower Upper

95 100

174 82.3 0.0 181.8

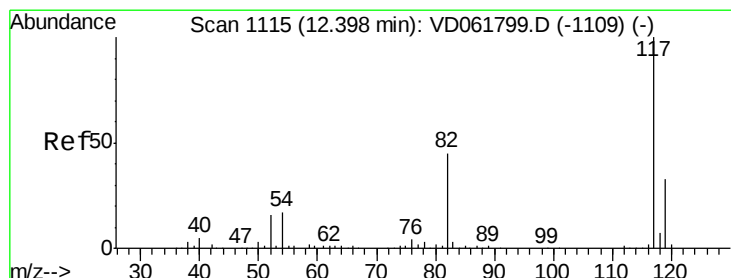
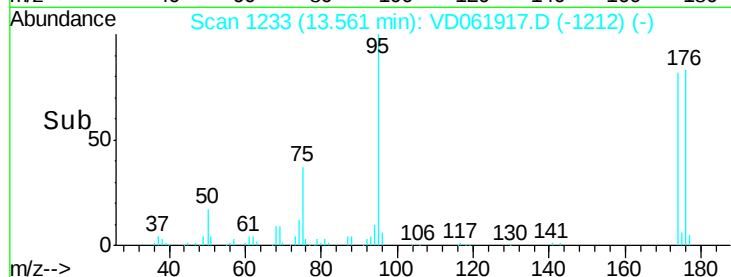
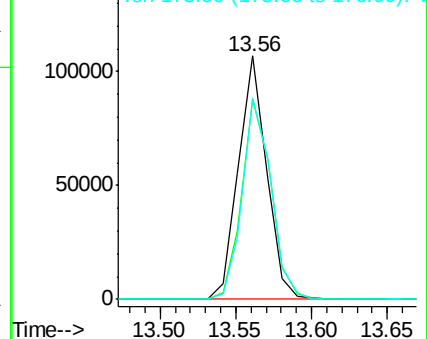
176 82.6 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

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. 0.00 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

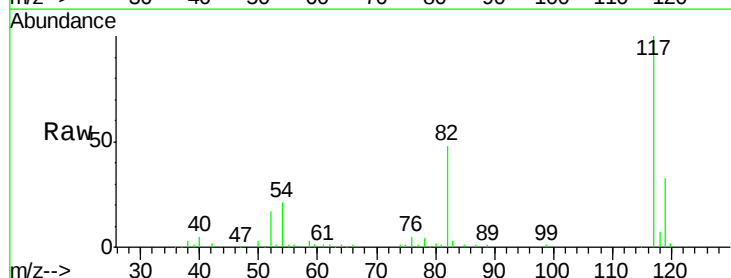
Tgt Ion: 117 Resp: 202655

Ion Ratio Lower Upper

117 100

82 47.5 36.2 54.2

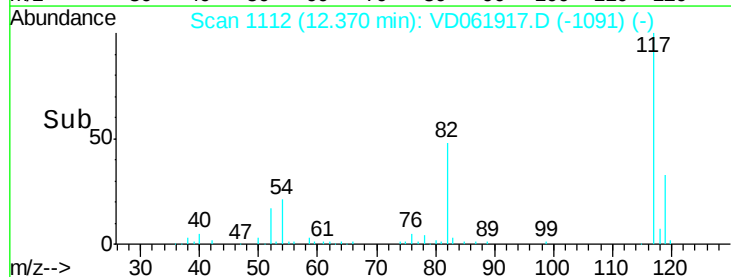
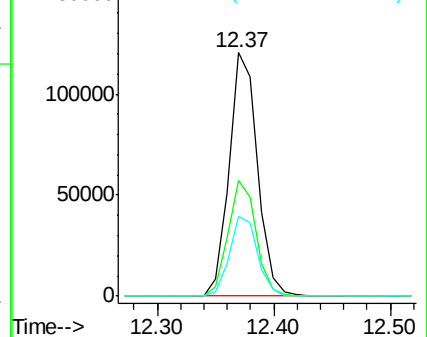
119 32.7 26.2 39.4

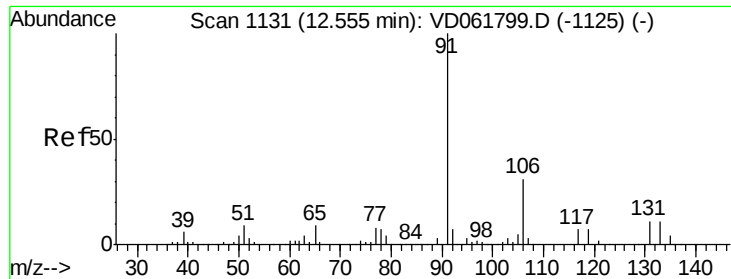


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

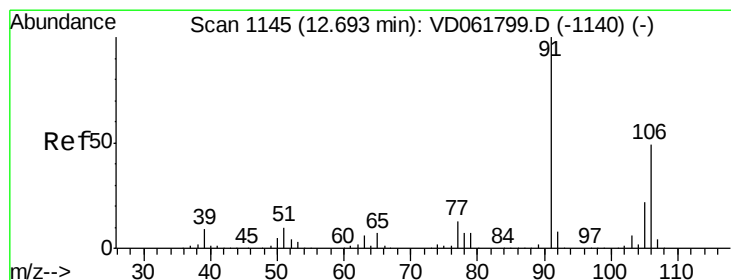
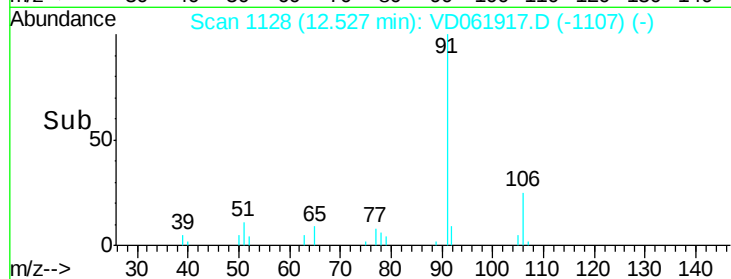
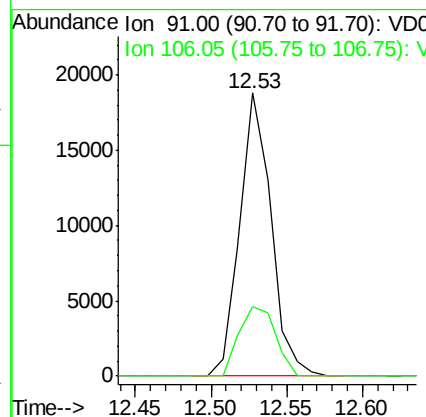
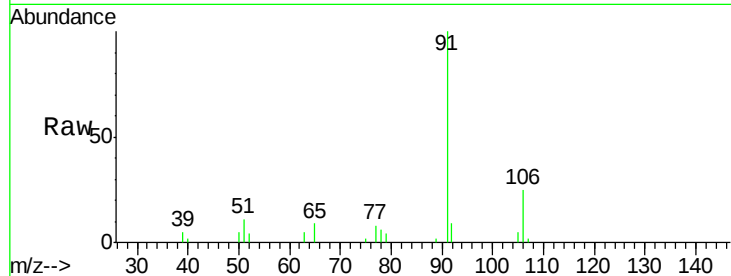




#67
Ethvl Benzene
Concen: 4.467 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VD061917.D
Acq: 19 Apr 2019 18:41

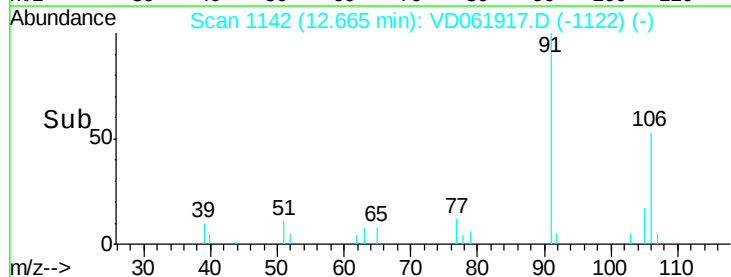
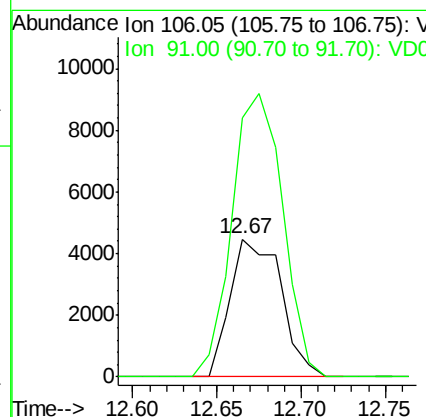
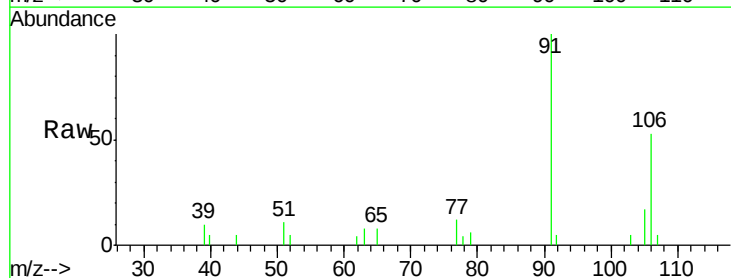
Instrument :
MSVOA_D
ClientSampleId :

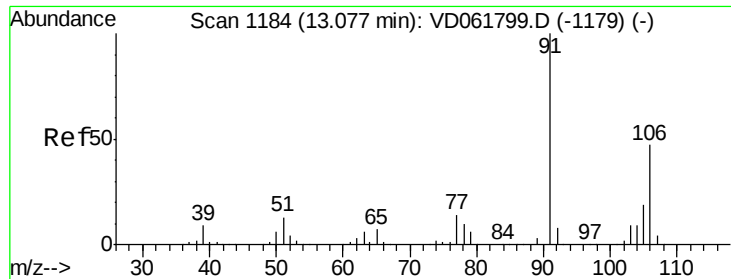
Tot Ion: 91 Resp: 27001
Ion Ratio Lower Upper
91 100
106 24.7 24.7 37.1#



#68
m/p-Xylenes
Concen: 4.117 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.01 min
Lab File: VD061917.D
Acq: 19 Apr 2019 18:41

Tgt Ion:106 Resp: 9348
Ion Ratio Lower Upper
106 100
91 187.9 164.0 246.0

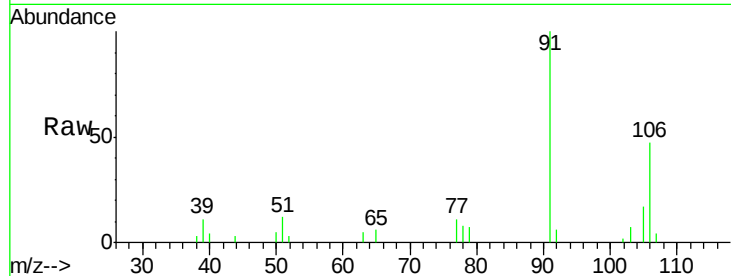




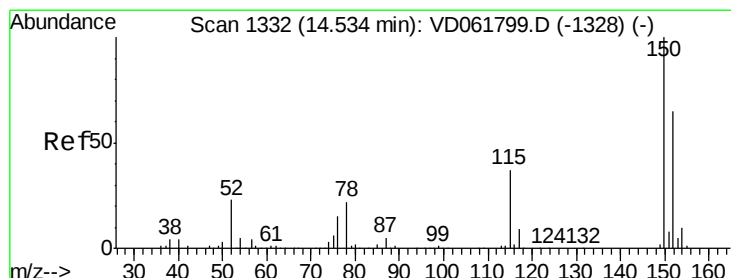
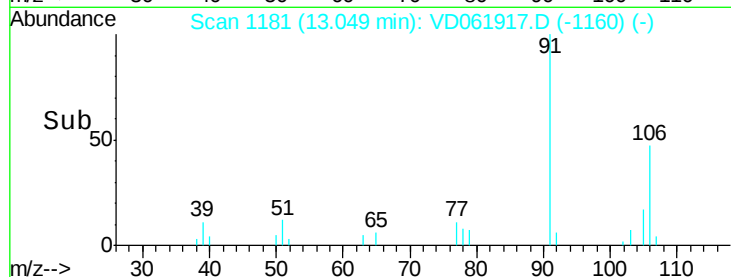
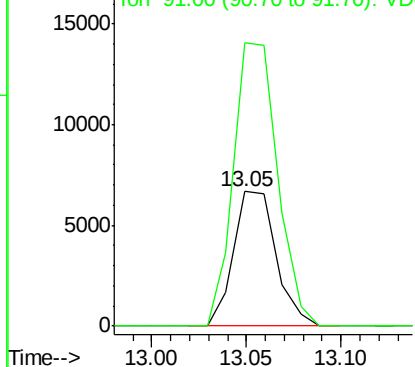
#69
o-Xylene
Concen: 4.886 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD061917.D
Acq: 19 Apr 2019 18:41

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 10427
Ion Ratio Lower Upper
106 100
91 210.7 106.7 319.9

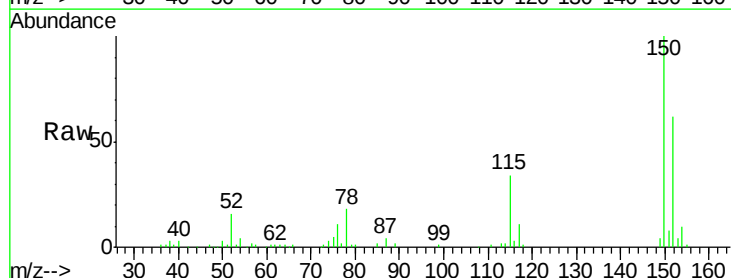


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

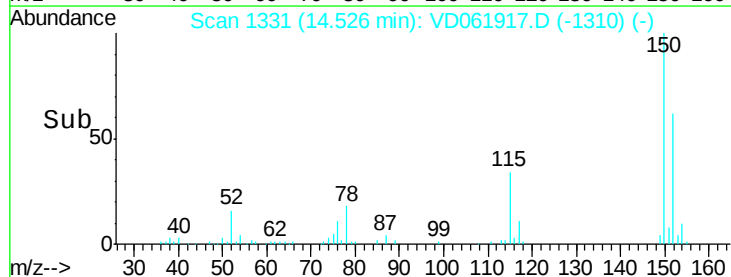
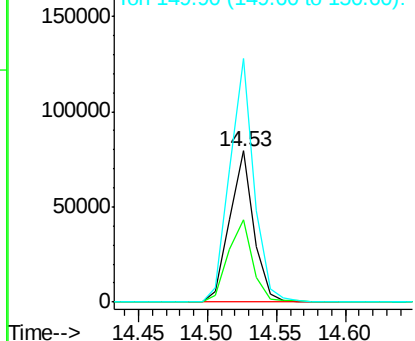


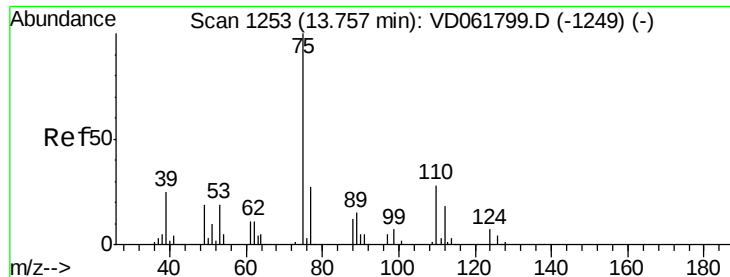
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VD061917.D
Acq: 19 Apr 2019 18:41

Tgt Ion:152 Resp: 96470
Ion Ratio Lower Upper
152 100
115 54.8 30.9 92.7
150 160.9 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





#76

1,2,3-Trichloropropane

Concen: 28.004 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

Instrument :

MSVOA_D

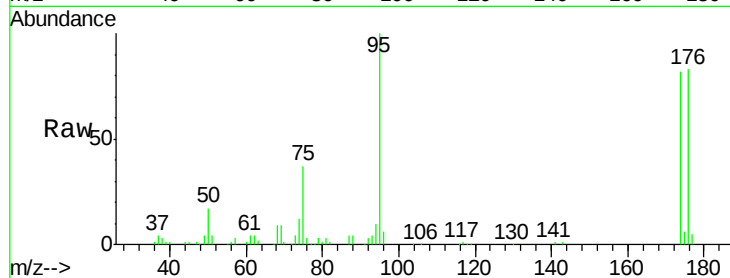
ClientSampleId :

Tot Ion: 75 Resp: 35479

Ion Ratio Lower Upper

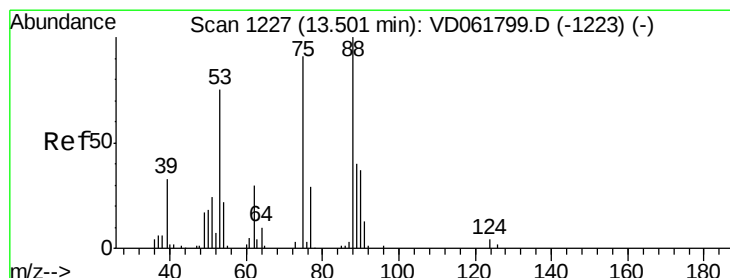
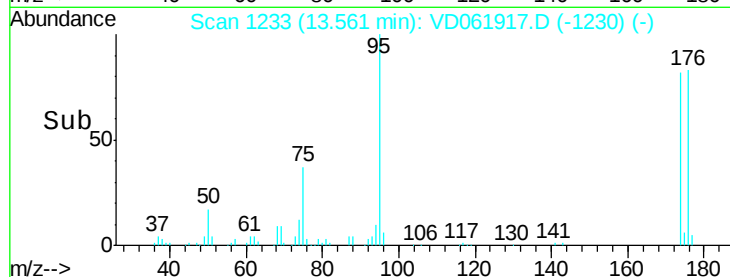
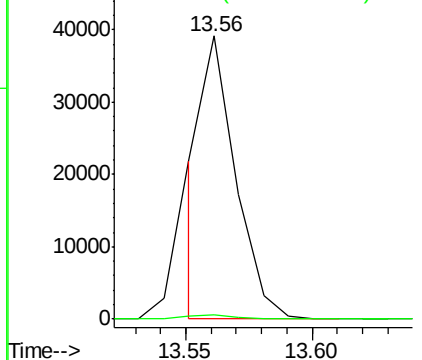
75 100

77 1.3 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 117.265 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061917.D

Acq: 19 Apr 2019 18:41

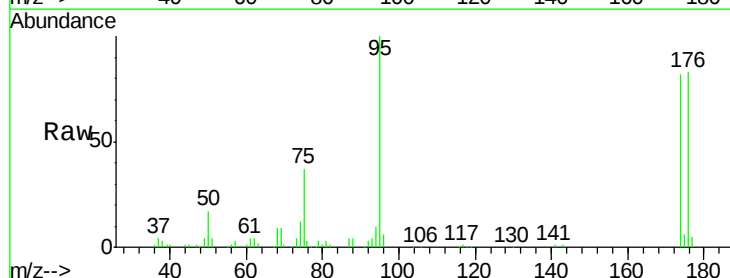
Tgt Ion: 75 Resp: 50119

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

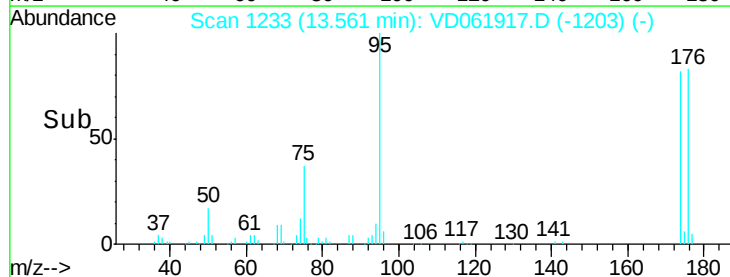
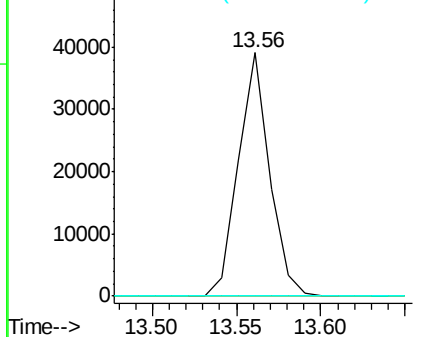
89 0.0 35.0 52.6#

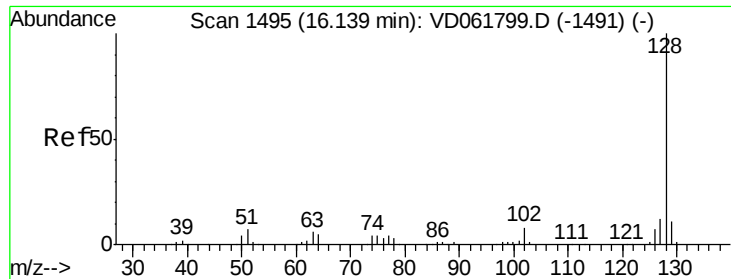


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

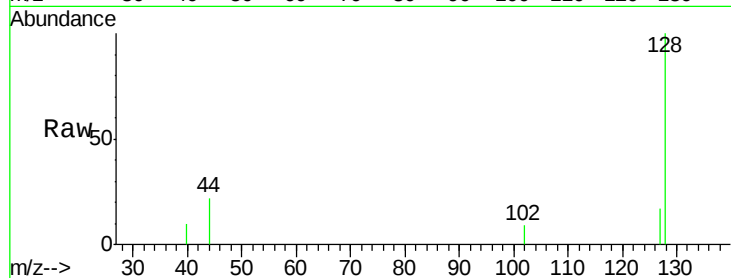




#95
 Naphthalene
 Concen: 1.449 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. 0.00 min
 Lab File: VD061917.D
 Acq: 19 Apr 2019 18:41

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:128 Resp: 3170
 Ion Ratio Lower Upper
 128 100
 127 16.6 9.8 14.8#
 129 0.0 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

