

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041819\
 Data File : VD061892.D
 Acq On : 19 Apr 2019 3:08
 Operator : VA/AP
 Sample : K2442-02
 Misc : 5.48g/5ml/MSVOA D/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-18-D2

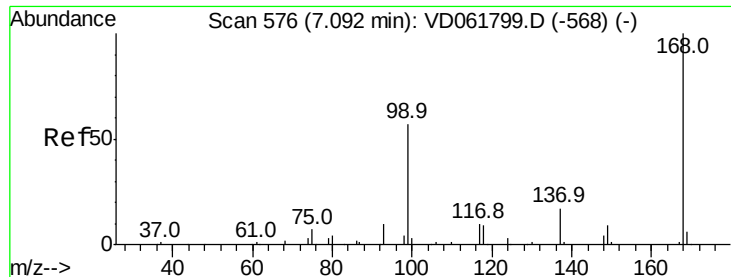
Quant Time: Apr 19 05:26:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	428995	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	677607	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	607178	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	285264	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	210867	58.65	ug/l	0.01
Spiked Amount			Recovery	=	117.30%	
35) Dibromofluoromethane	6.93	113	311639	60.87	ug/l	0.01
Spiked Amount			Recovery	=	121.74%	
50) Toluene-d8	10.42	98	680392	56.09	ug/l	0.01
Spiked Amount			Recovery	=	112.18%	
62) 4-Bromofluorobenzene	13.56	95	266391	54.18	ug/l	0.00
Spiked Amount			Recovery	=	108.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	1271	Below Cal	#	1
10) Methyl Iodide	3.32	142	190	3.538	ug/l #	37
16) Acetone	3.22	43	44078	49.742	ug/l	99
20) Methylene Chloride	3.82	84	36669	4.116	ug/l	98
25) 2-Butanone	6.07	43	40827	40.470	ug/l	97
29) Tetrahydrofuran	6.46	42	17893	36.411	ug/l	96
31) Cyclohexane	7.05	56	6942	1.275	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	31153	5.626	ug/l #	44
37) Ethyl Acetate	6.07	43	40827	17.228	ug/l #	64
38) Carbon Tetrachloride	7.04	117	40784	5.833	ug/l #	15
40) Benzene	7.47	78	15954	1.200	ug/l	98
41) Methacrylonitrile	6.46	41	10388	3.709	ug/l #	68
51) 4-Methyl-2-Pentanone	10.42	43	3100	1.520	ug/l #	1
52) Toluene	10.52	92	150003	17.608	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.56	75	99843	80.084	ug/l #	16

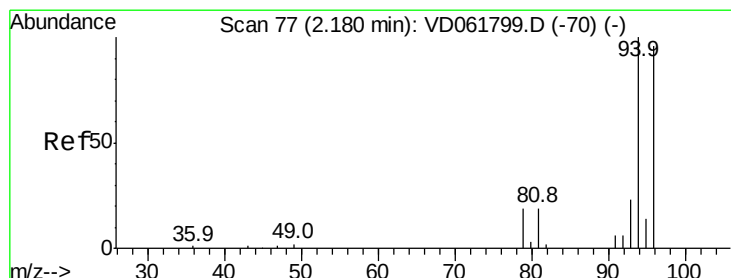
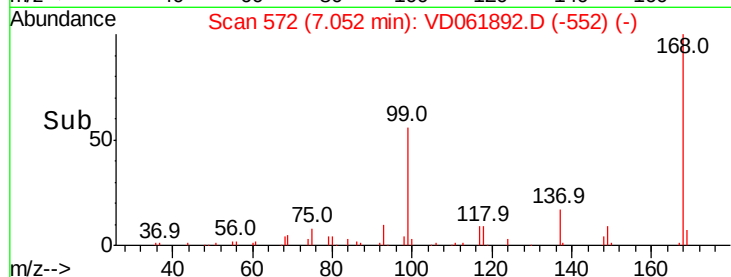
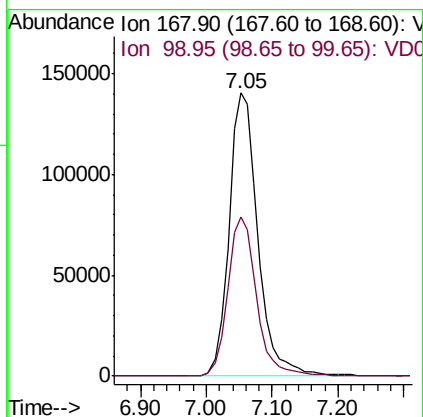
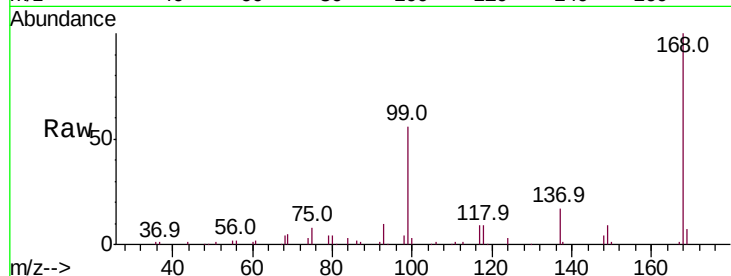
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.05 min Scan# 572
Delta R.T. 0.00 min
Lab File: VD061892.D
Acq: 19 Apr 2019 3:08

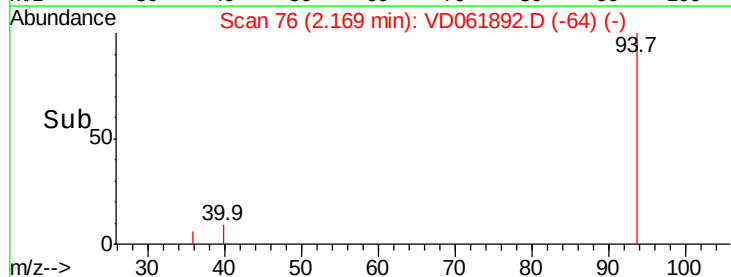
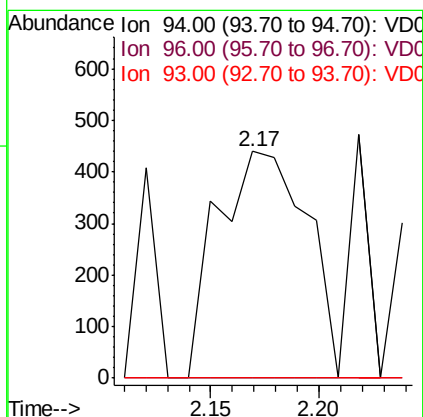
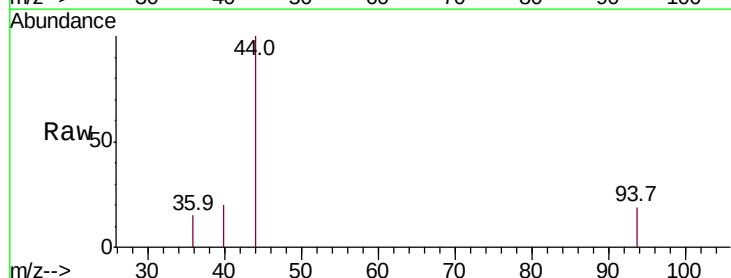
Instrument :
MSVOA_D
ClientSampleId :
TP-18-D2

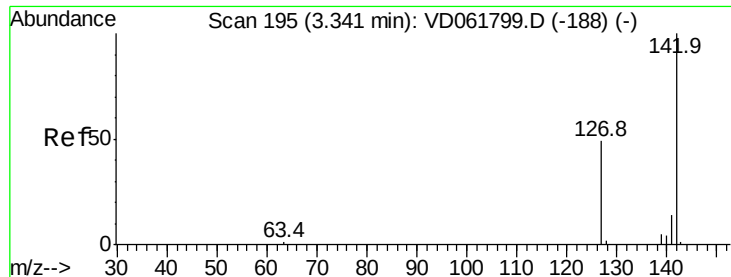
Tot Ion:168 Resp: 428995
Ion Ratio Lower Upper
168 100
99 56.4 46.5 69.7



#5
Bromomethane
Concen: Below Cal
RT: 2.17 min Scan# 76
Delta R.T. 0.02 min
Lab File: VD061892.D
Acq: 19 Apr 2019 3:08

Tgt Ion: 94 Resp: 1271
Ion Ratio Lower Upper
94 100
96 0.0 76.6 115.0#
93 100.0 18.5 27.7#

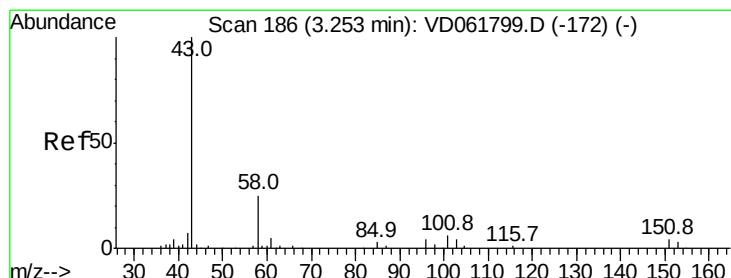
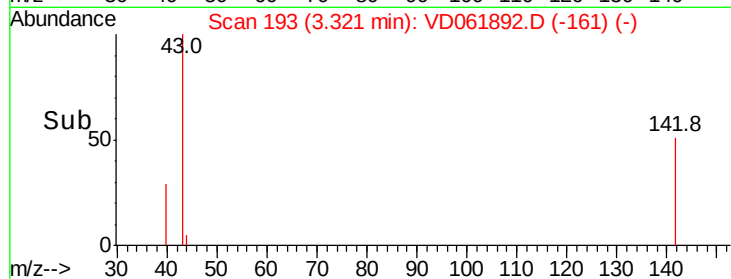
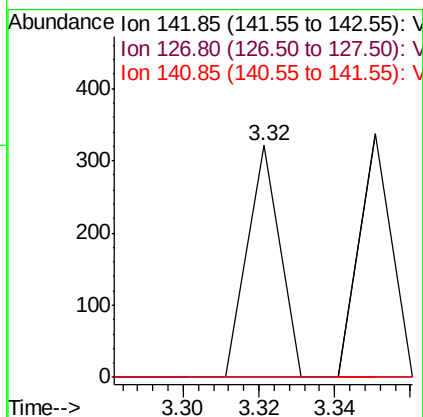
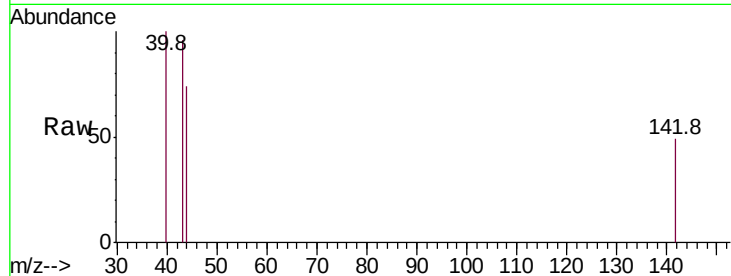




#10
Methyl Iodide
Concen: 3.538 ug/l
RT: 3.32 min Scan# 193
Delta R.T. 0.01 min
Lab File: VD061892.D
Acq: 19 Apr 2019 3:08

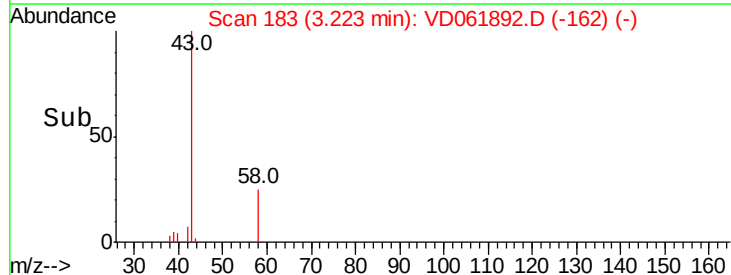
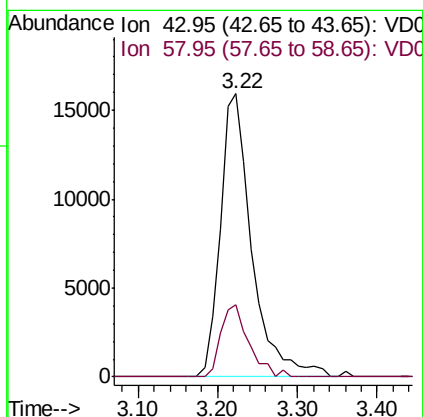
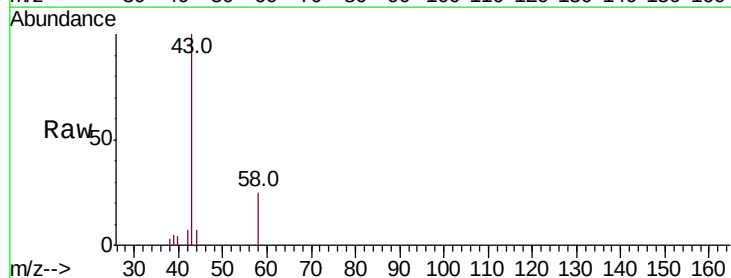
Instrument :
MSVOA_D
ClientSampleId :
TP-18-D2

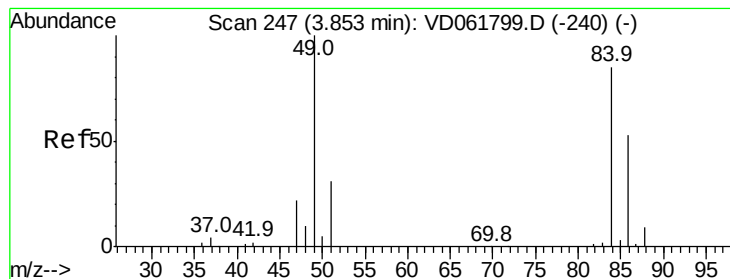
Tot Ion:142 Resp: 190
Ion Ratio Lower Upper
142 100
127 0.0 38.8 58.2#
141 0.0 11.4 17.0#



#16
Acetone
Concen: 49.742 ug/l
RT: 3.22 min Scan# 183
Delta R.T. 0.01 min
Lab File: VD061892.D
Acq: 19 Apr 2019 3:08

Tgt Ion: 43 Resp: 44078
Ion Ratio Lower Upper
43 100
58 25.4 19.9 29.9





#20

Methylene Chloride

Concen: 4.116 ug/l

RT: 3.82 min Scan# 244

Delta R.T. 0.01 min

Lab File: VD061892.D

Acq: 19 Apr 2019 3:08

Instrument :

MSVOA_D

ClientSampleId :

TP-18-D2

Tot Ion: 84 Resp: 36669

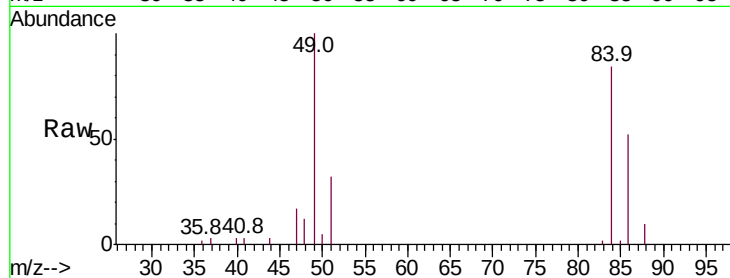
Ion Ratio Lower Upper

84 100

49 119.1 94.0 141.0

51 38.6 29.0 43.4

86 62.1 49.8 74.6



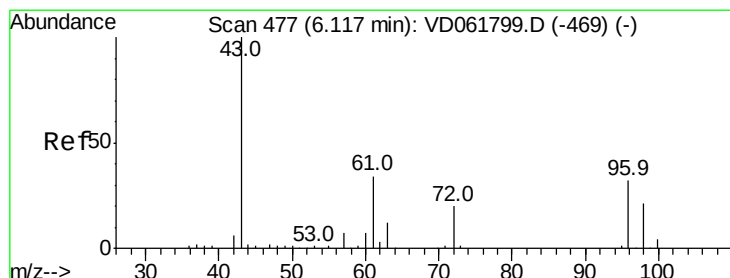
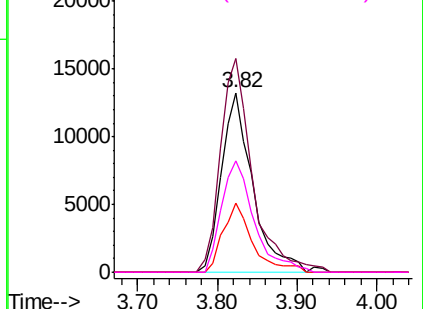
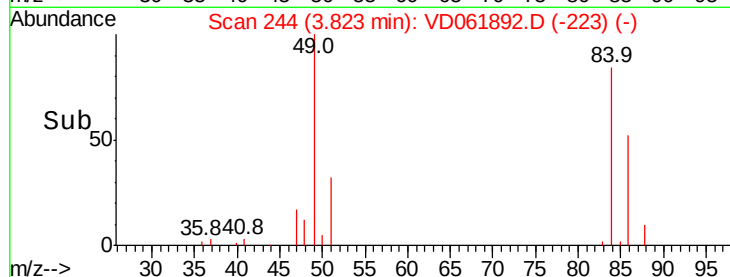
Abundance

Ion 83.95 (83.65 to 84.65): 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: 40.470 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.00 min

Lab File: VD061892.D

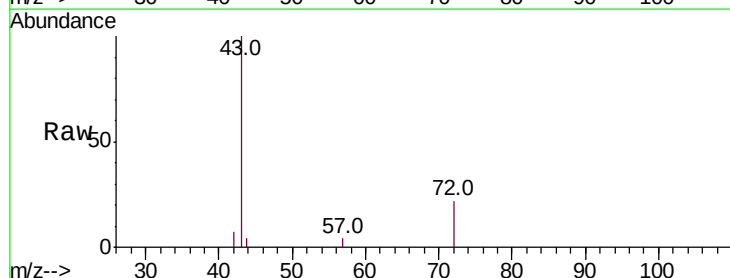
Acq: 19 Apr 2019 3:08

Tgt Ion: 43 Resp: 40827

Ion Ratio Lower Upper

43 100

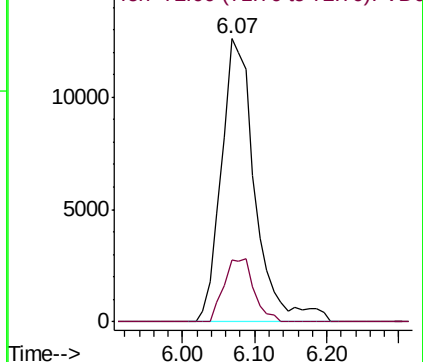
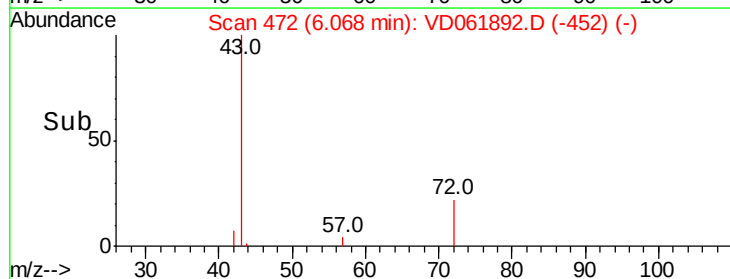
72 21.7 16.2 24.4

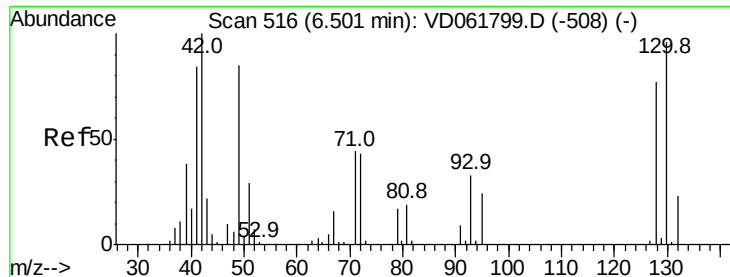


Abundance

Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 36.411 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD061892.D

Acq: 19 Apr 2019 3:08

Instrument :

MSVOA_D

ClientSampleId :

TP-18-D2

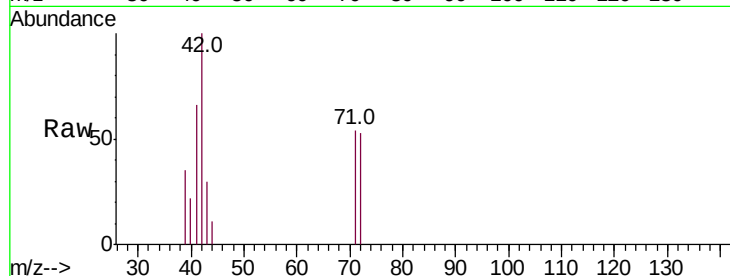
Tot Ion: 42 Resp: 17893

Ion Ratio Lower Upper

42 100

72 43.4 37.8 56.6

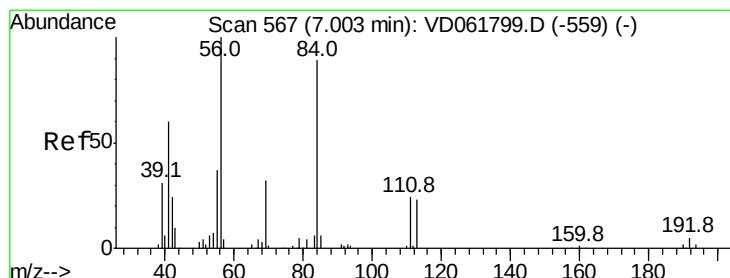
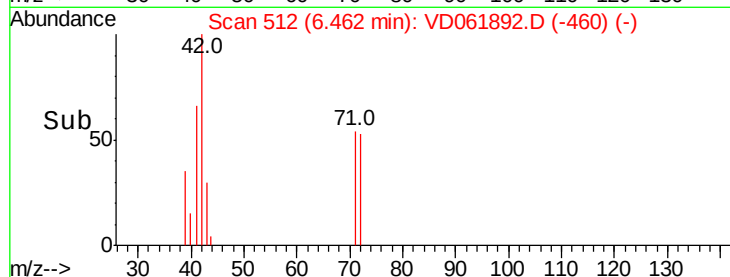
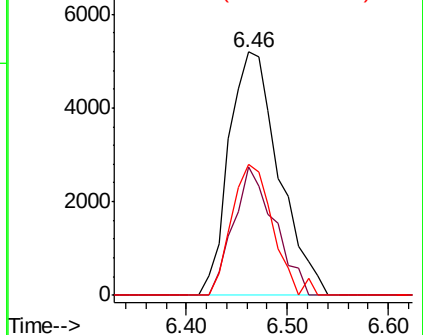
71 44.3 36.7 55.1



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

Cyclohexane

Concen: 1.275 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.10 min

Lab File: VD061892.D

Acq: 19 Apr 2019 3:08

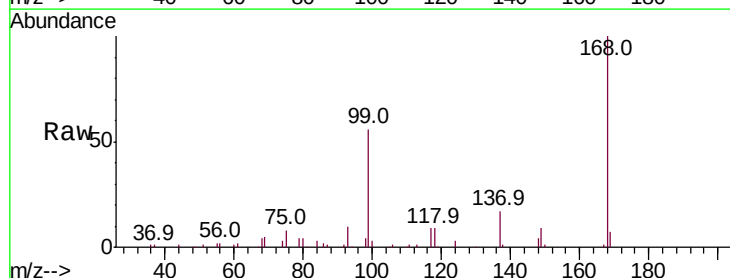
Tgt Ion: 56 Resp: 6942

Ion Ratio Lower Upper

56 100

69 279.5 25.8 38.6#

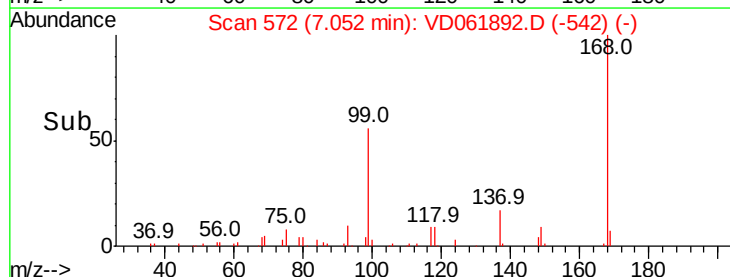
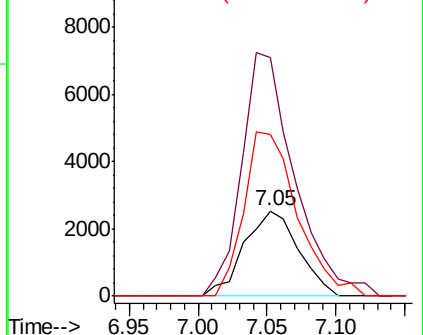
84 189.5 72.2 108.4#

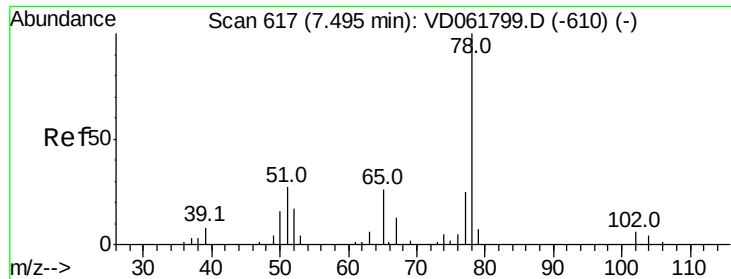


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

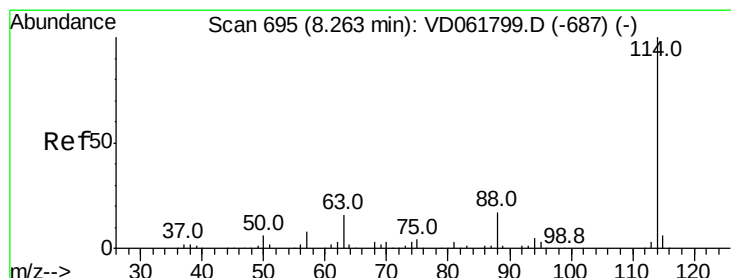
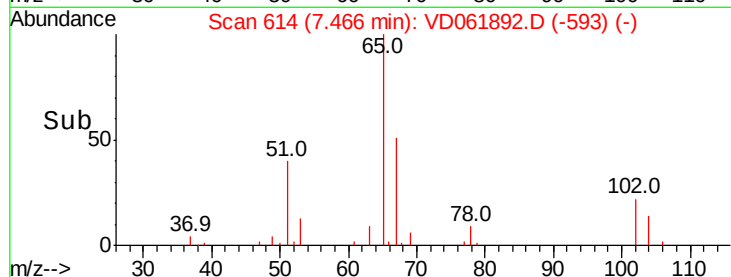
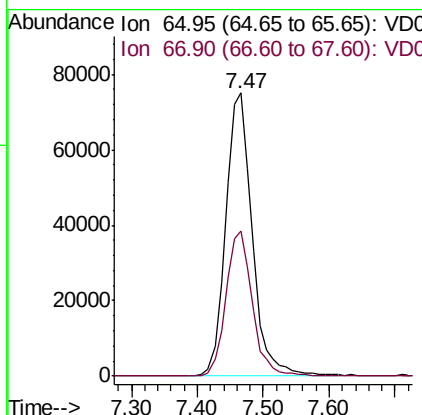
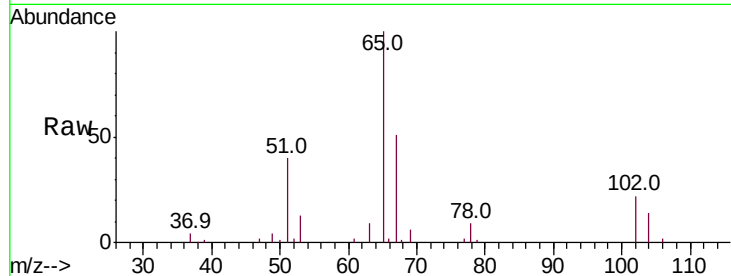




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. 0.01 min
 Lab File: VD061892.D
 Acq: 19 Apr 2019 3:08

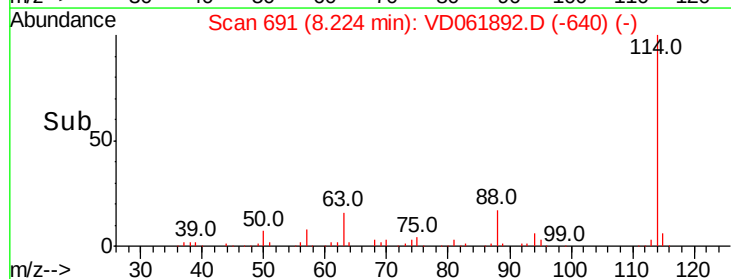
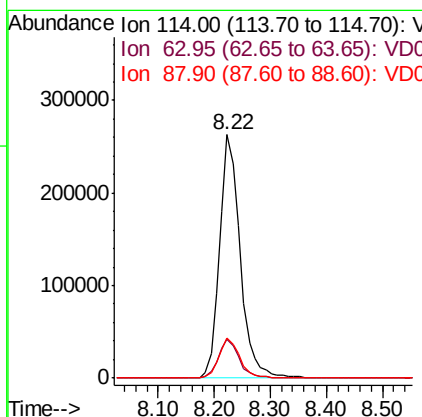
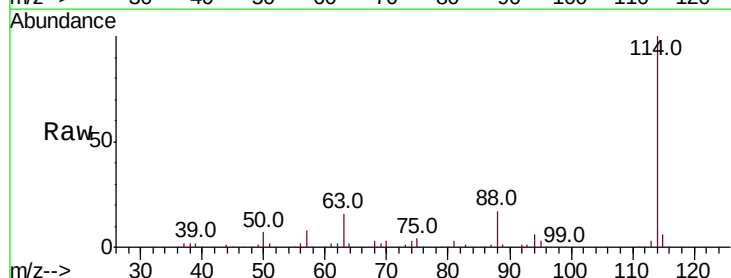
Instrument :
 MSVOA_D
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 TP-18-D2

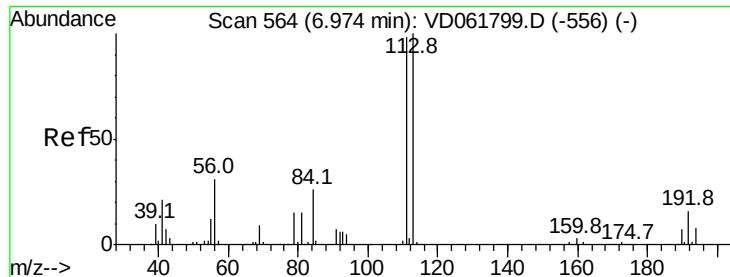
Tot Ion: 65 Resp: 210867
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VD061892.D
 Acq: 19 Apr 2019 3:08

Tgt Ion: 114 Resp: 677607
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 32.4
 88 16.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061892.D

Acq: 19 Apr 2019 3:08

Instrument :

MSVOA_D

ClientSampleId :

TP-18-D2

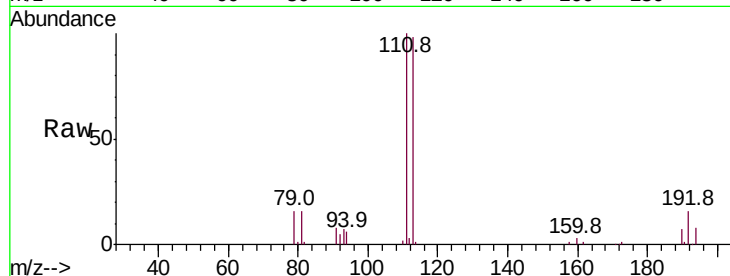
Tot Ion:113 Resp: 311639

Ion Ratio Lower Upper

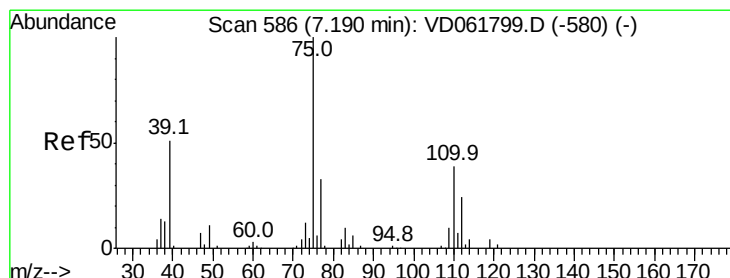
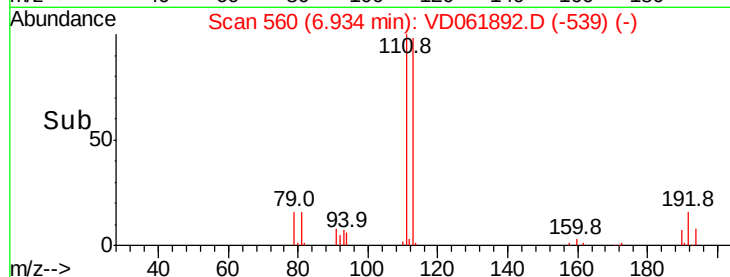
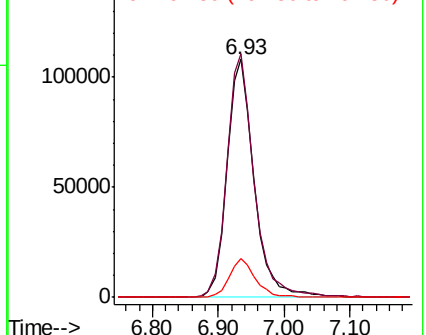
113 100

111 102.1 78.5 117.7

192 16.0 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.626 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.10 min

Lab File: VD061892.D

Acq: 19 Apr 2019 3:08

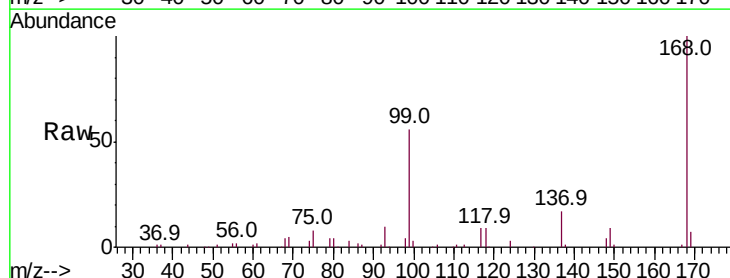
Tgt Ion: 75 Resp: 31153

Ion Ratio Lower Upper

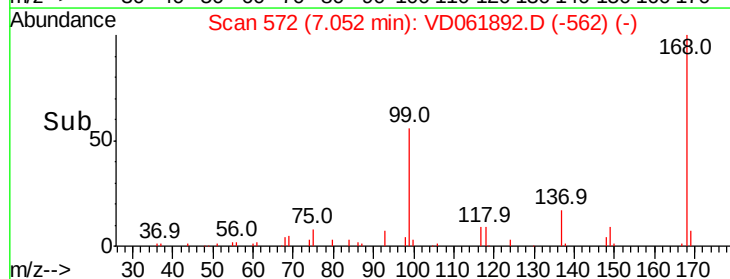
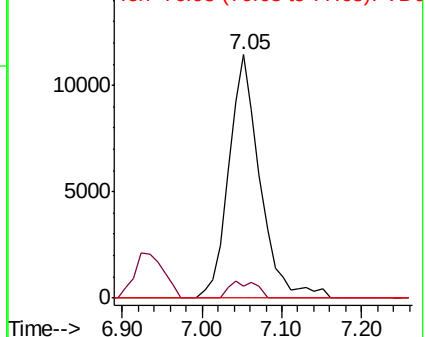
75 100

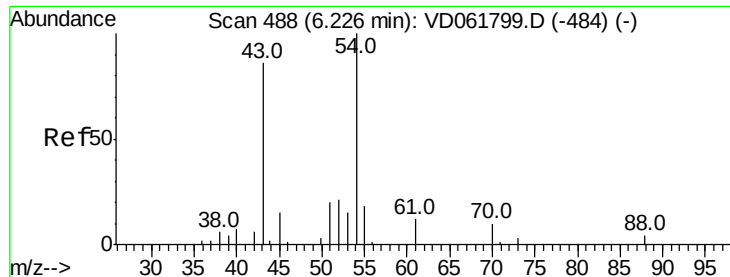
110 4.9 19.1 57.1#

77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): V

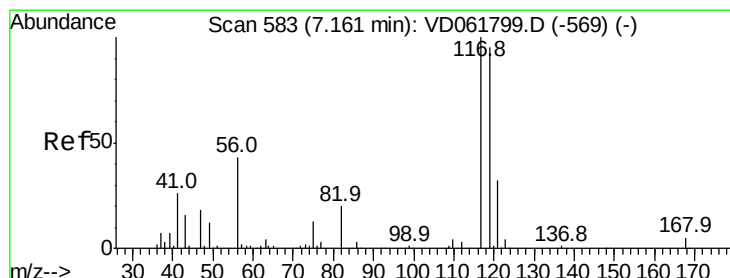
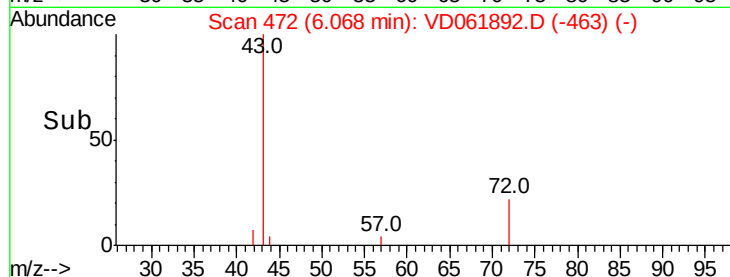
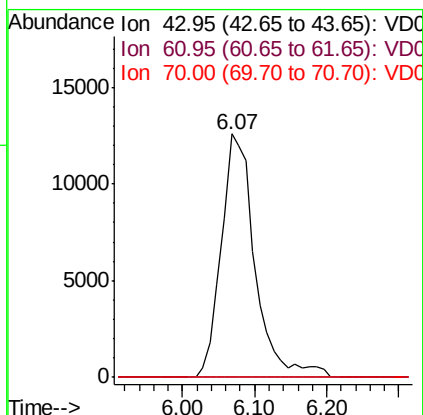
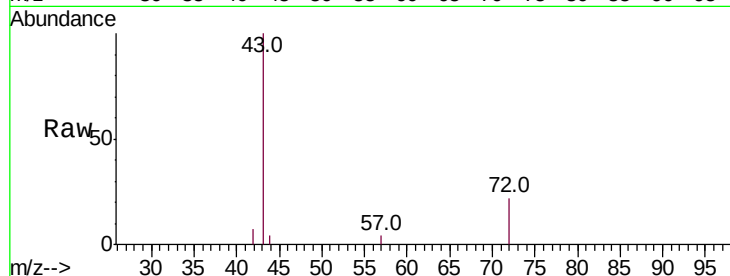




#37
Ethyl Acetate
Concen: 17.228 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.11 min
Lab File: VD061892.D
Acq: 19 Apr 2019 3:08

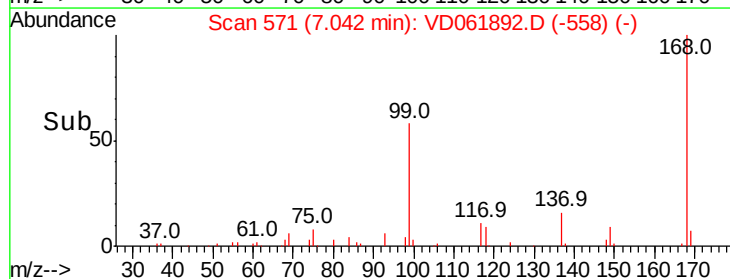
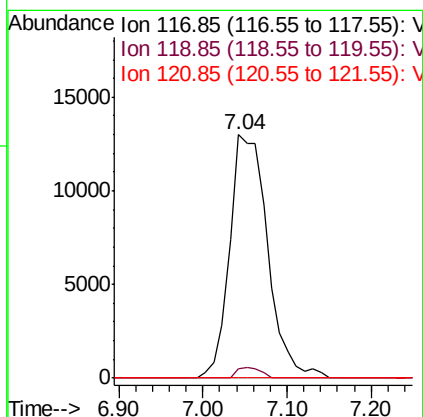
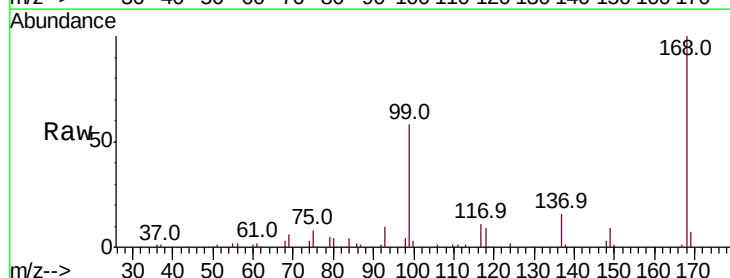
Instrument :
MSVOA_D
ClientSampleId :
TP-18-D2

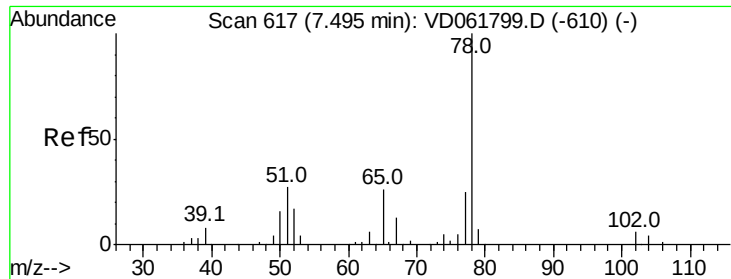
Tot Ion: 43 Resp: 40827
Ion Ratio Lower Upper
43 100
61 0.0 14.7 22.1#
70 0.0 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 5.833 ug/l
RT: 7.04 min Scan# 571
Delta R.T. -0.07 min
Lab File: VD061892.D
Acq: 19 Apr 2019 3:08

Tgt Ion: 117 Resp: 40784
Ion Ratio Lower Upper
117 100
119 3.9 75.8 113.8#
121 0.0 25.9 38.9#





#40

Benzene

Concen: 1.200 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061892.D

Acq: 19 Apr 2019 3:08

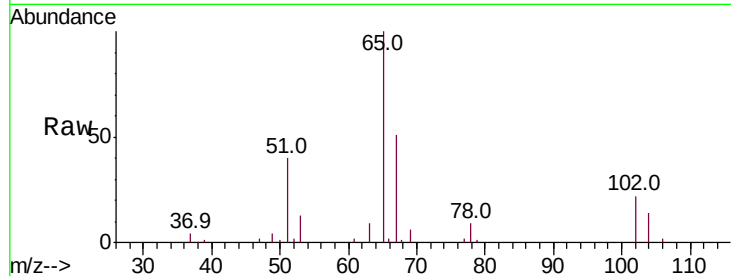
Instrument :
MSVOA_D
ClientSampleId :
TP-18-D2

Tot Ion: 78 Resp: 15954

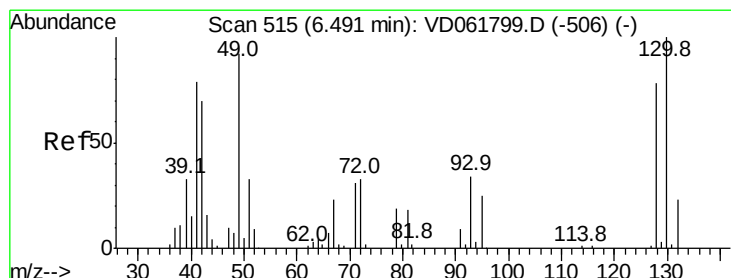
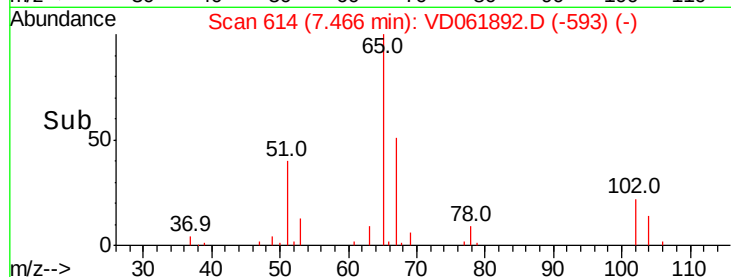
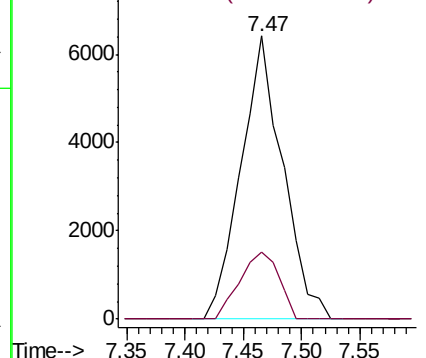
Ion Ratio Lower Upper

78 100

77 23.5 19.7 29.5



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



#41

Methacrylonitrile

Concen: 3.709 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD061892.D

Acq: 19 Apr 2019 3:08

Tgt Ion: 41 Resp: 10388

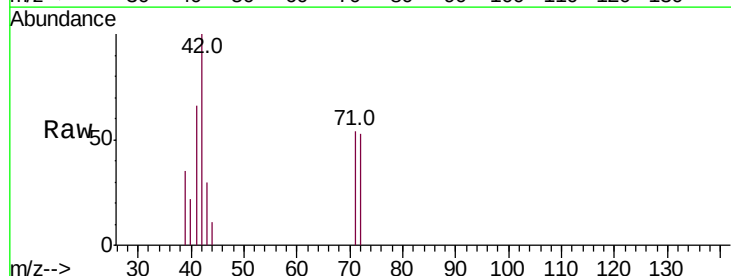
Ion Ratio Lower Upper

41 100

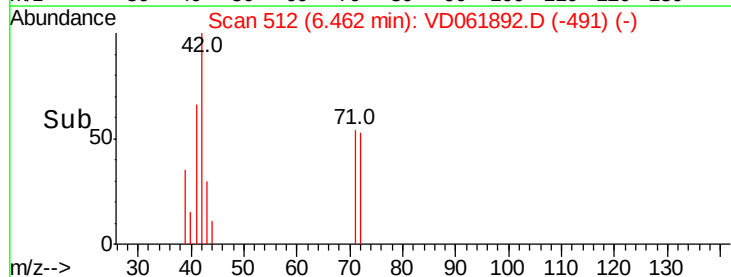
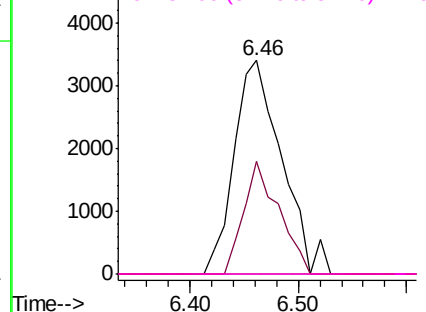
39 53.0 34.1 51.1#

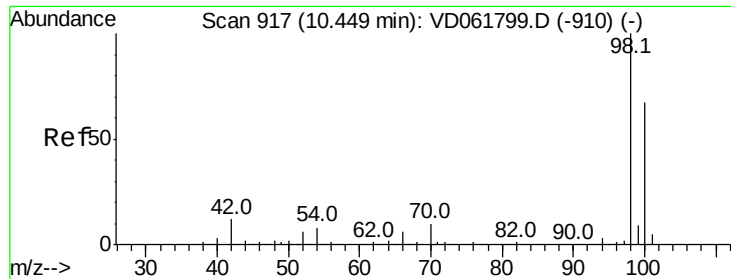
67 0.0 23.8 35.6#

52 0.0 8.8 13.2#



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

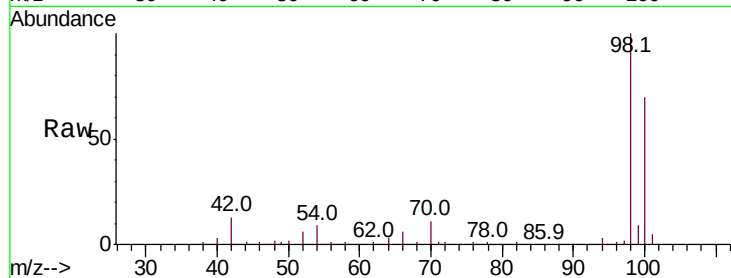




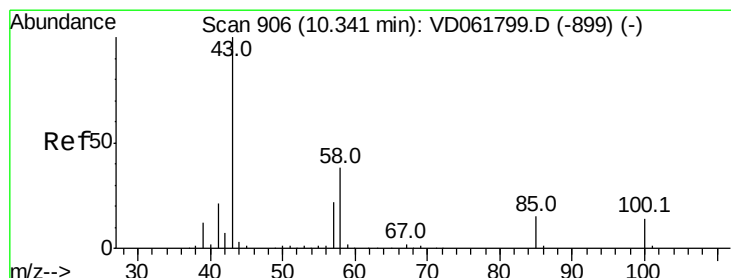
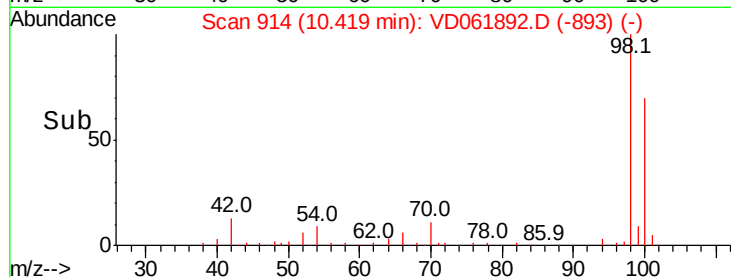
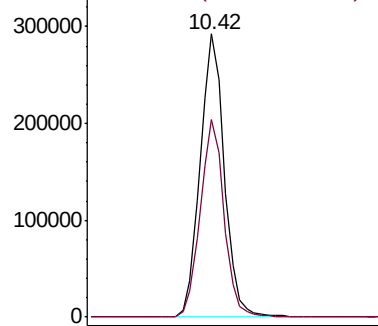
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD061892.D
Acq: 19 Apr 2019 3:08

Instrument :
MSVOA_D
ClientSampleId :
TP-18-D2

Tot Ion: 98 Resp: 680392
Ion Ratio Lower Upper
98 100
100 69.7 53.8 80.8

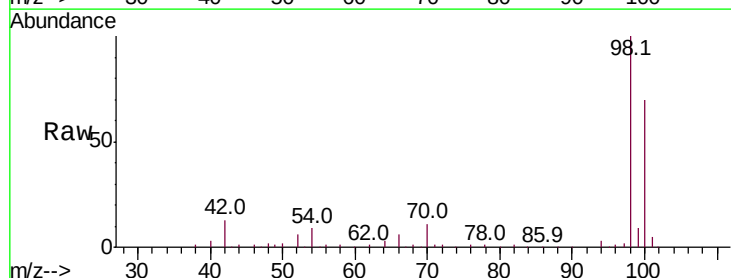


Abundance Ion 98.05 (97.75 to 98.75): VD061799.D (-910) (-)
Ion 100.05 (99.75 to 100.75): VD061799.D (-910) (-)

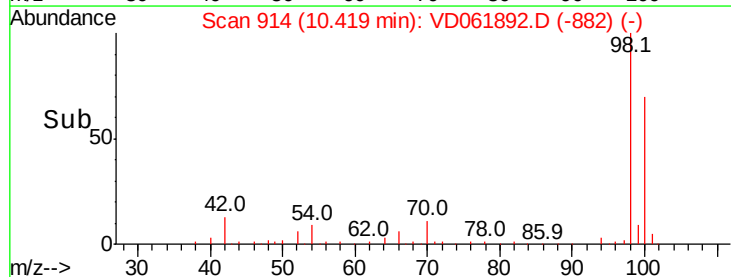
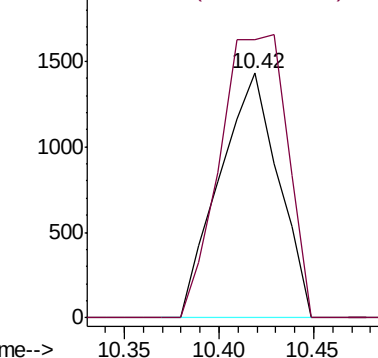


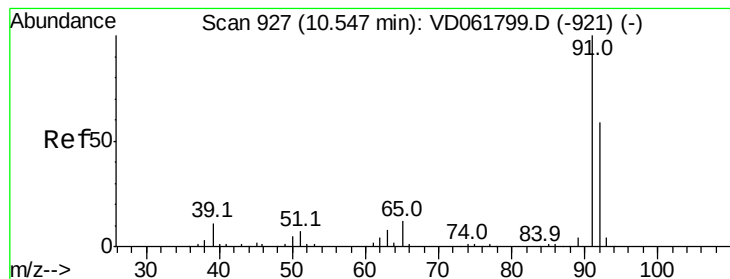
#51
4-Methyl-2-Pentanone
Concen: 1.520 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.12 min
Lab File: VD061892.D
Acq: 19 Apr 2019 3:08

Tgt Ion: 43 Resp: 3100
Ion Ratio Lower Upper
43 100
58 113.5 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD061799.D (-899) (-)
Ion 57.95 (57.65 to 58.65): VD061799.D (-899) (-)





#52

Toluene

Concen: 17.608 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD061892.D

Acq: 19 Apr 2019 3:08

Instrument :

MSVOA_D

ClientSampleId :

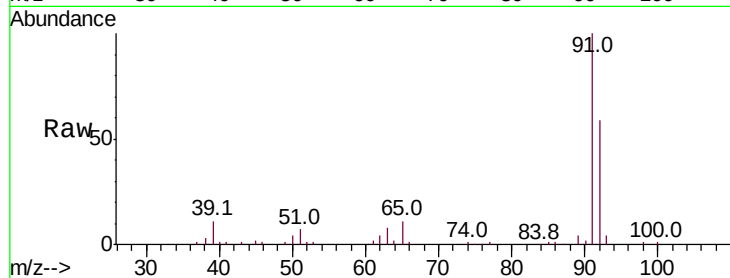
TP-18-D2

Tot Ion: 92 Resp: 150003

Ion Ratio Lower Upper

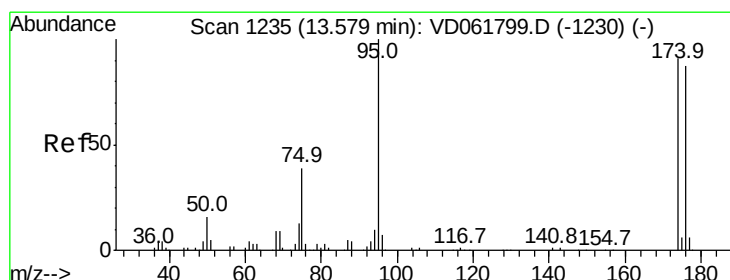
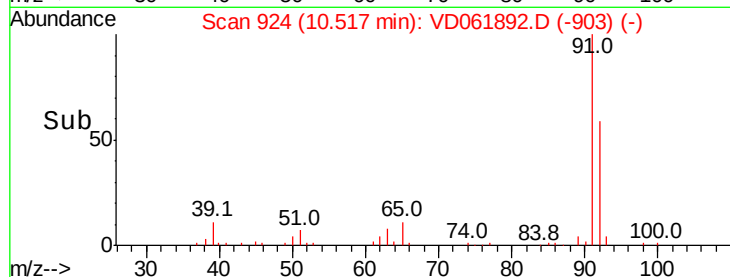
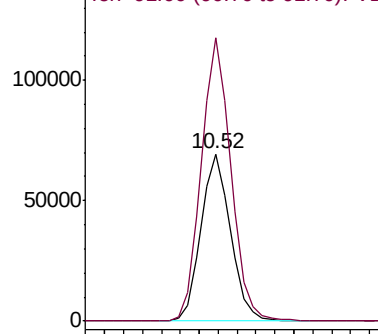
92 100

91 169.4 136.6 204.8



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: VD061892.D

Acq: 19 Apr 2019 3:08

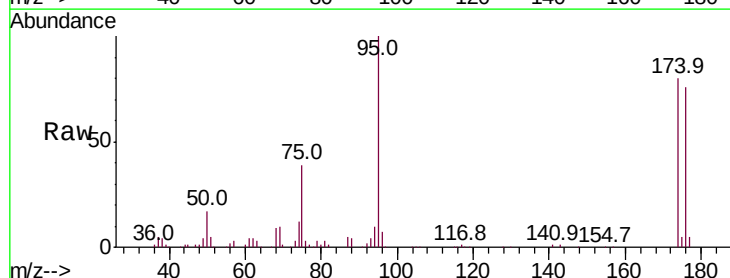
Tgt Ion: 95 Resp: 266391

Ion Ratio Lower Upper

95 100

174 80.0 0.0 181.8

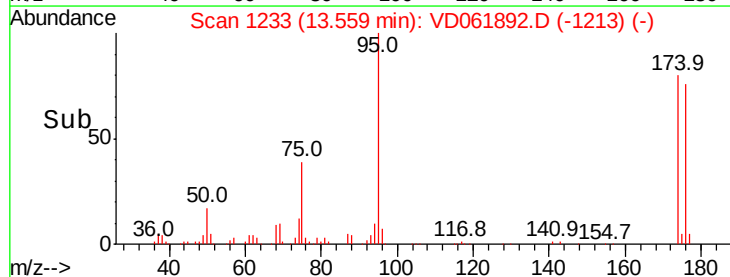
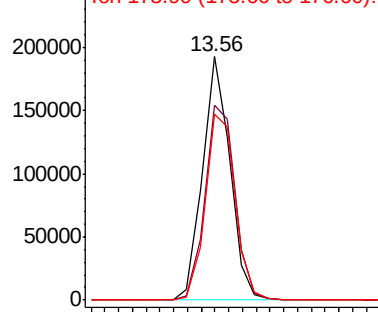
176 76.5 0.0 174.4

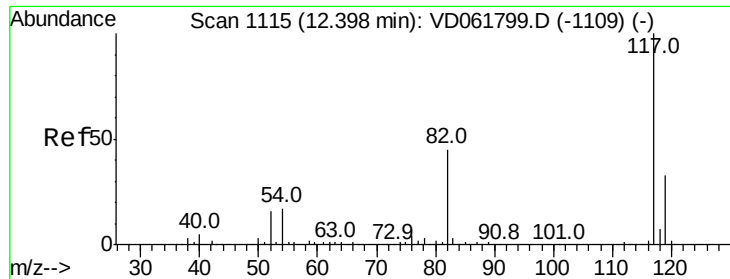


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

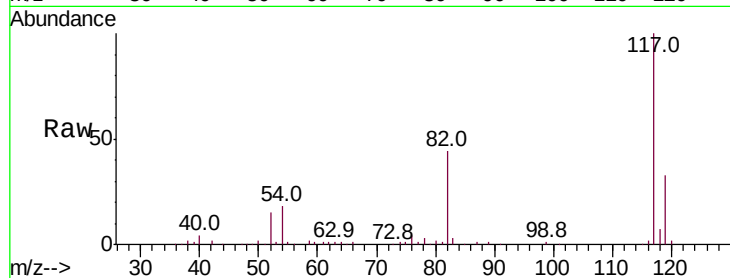




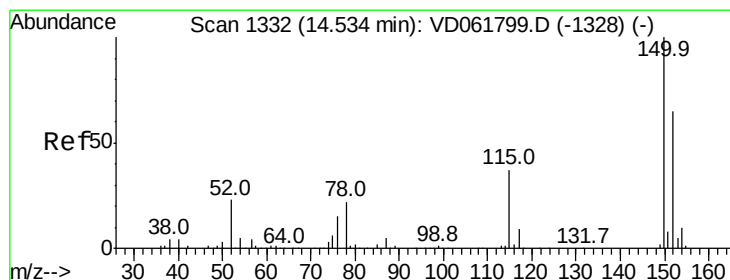
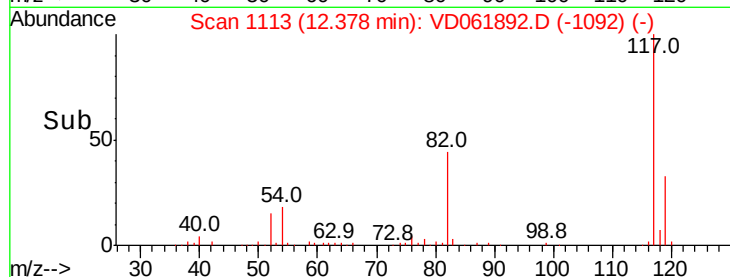
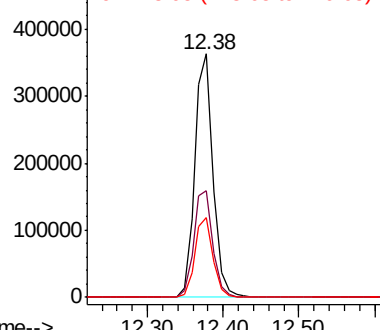
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD061892.D
Acq: 19 Apr 2019 3:08

Instrument :
MSVOA_D
ClientSampleId :
TP-18-D2

Tot Ion:117 Resp: 607178
Ion Ratio Lower Upper
117 100
82 43.8 36.2 54.2
119 32.6 26.2 39.4

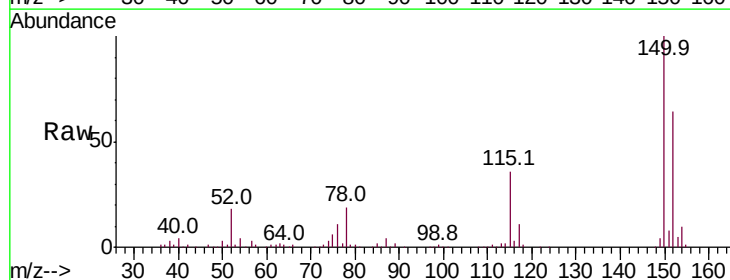


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

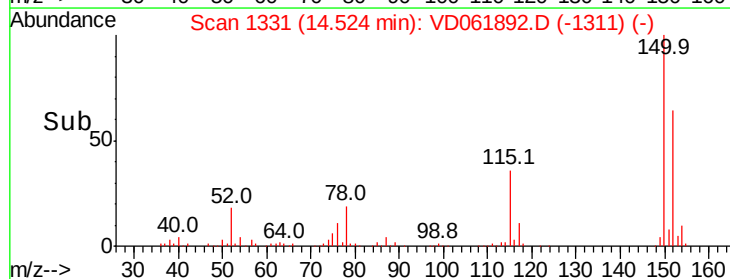
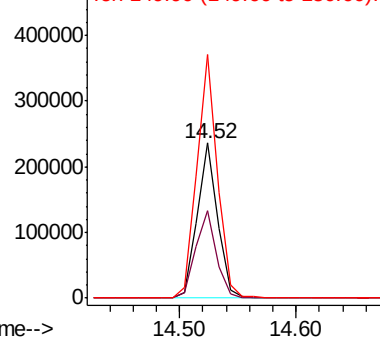


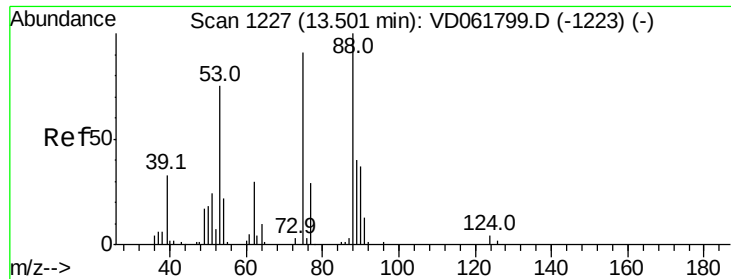
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VD061892.D
Acq: 19 Apr 2019 3:08

Tgt Ion:152 Resp: 285264
Ion Ratio Lower Upper
152 100
115 56.4 30.9 92.7
150 156.9 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





#81

trans-1,4-Dichloro-2-butene

Concen: 80.084 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061892.D

Acq: 19 Apr 2019 3:08

Instrument :

MSVOA_D

ClientSampleId :

TP-18-D2

Tot Ion: 75 Resp: 99843

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#

