

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061327.D
 Acq On : 26 Mar 2019 5:14
 Operator : VA/AP
 Sample : K2047-17
 Misc : 5.99g/5ml/MSVOA D/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB440-190318-(23-25)

Quant Time: Mar 26 07:10:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	579096	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	968911	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	774104	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	338503	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	196506	39.33	ug/l	0.00
Spiked Amount			Recovery	=	78.66%	
35) Dibromofluoromethane	6.93	113	333205	44.94	ug/l	0.00
Spiked Amount			Recovery	=	89.88%	
50) Toluene-d8	10.40	98	743038	41.33	ug/l	0.00
Spiked Amount			Recovery	=	82.66%	
62) 4-Bromofluorobenzene	13.55	95	274025	39.07	ug/l	0.00
Spiked Amount			Recovery	=	78.14%	

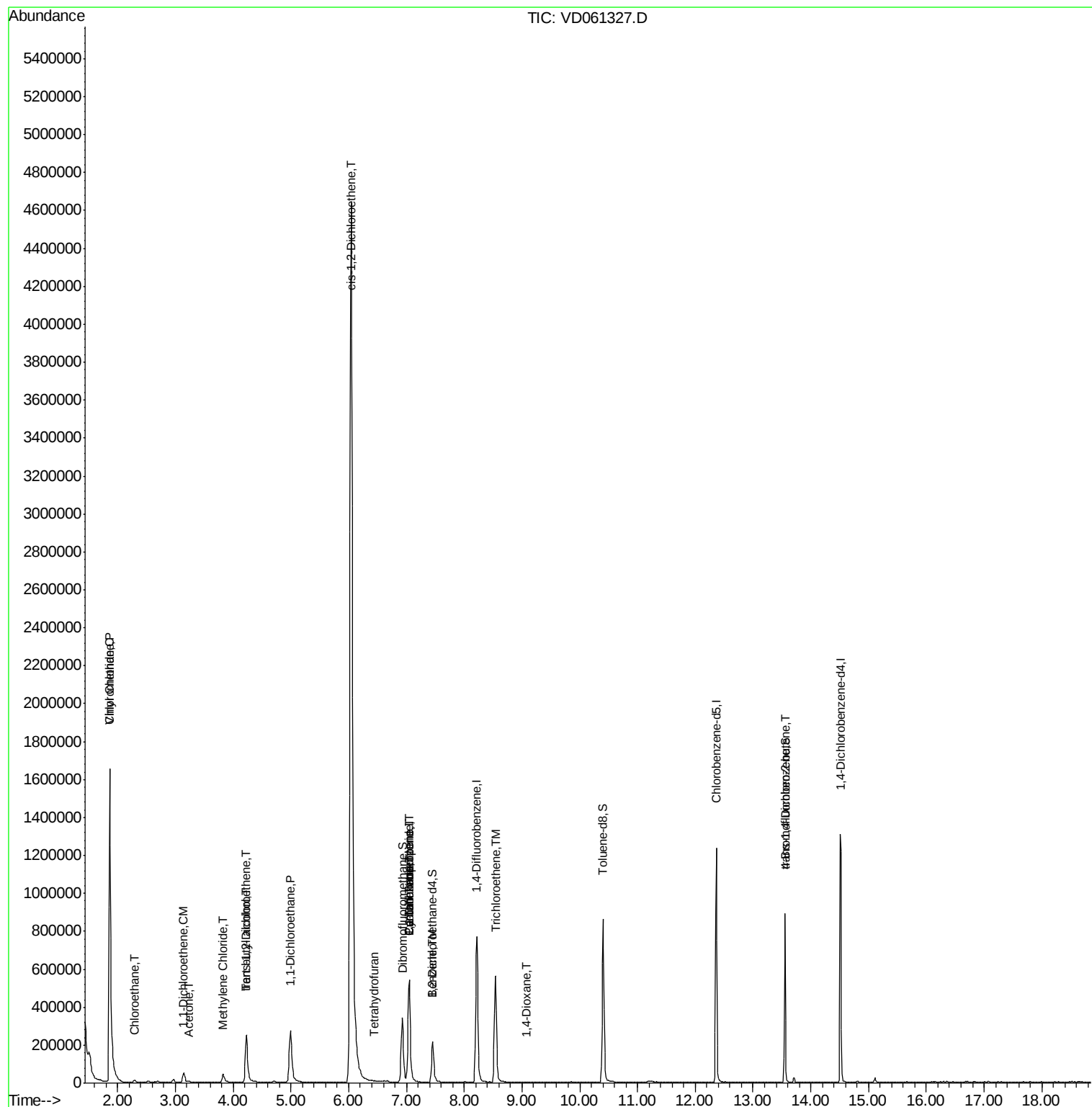
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.86	50	13796	2.987	ug/l #	41
4) Vinyl Chloride	1.86	62	2173813	503.368	ug/l	98
6) Chloroethane	2.29	64	12348	9.089	ug/l #	87
11) Tert butyl alcohol	4.22	59	4992	18.769	ug/l #	77
12) 1,1-Dichloroethene	3.14	96	29424	5.263	ug/l	98
16) Acetone	3.24	43	3333	2.789	ug/l #	51
20) Methylene Chloride	3.83	84	32048	4.725	ug/l	90
21) trans-1,2-Dichloroethene	4.23	96	177042	28.307	ug/l	97
24) 1,1-Dichloroethane	4.99	63	485988	49.917	ug/l	98
27) cis-1,2-Dichloroethene	6.04	96	3864226	574.123	ug/l	95
29) Tetrahydrofuran	6.46	42	1731	2.516	ug/l #	50
31) Cyclohexane	7.05	56	8769	1.110	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	40591	5.120	ug/l #	46
38) Carbon Tetrachloride	7.05	117	52367	5.780	ug/l #	15
40) Benzene	7.46	78	20509	1.042	ug/l	94
44) Trichloroethene	8.54	130	291751	40.975	ug/l	99
49) 1,4-Dioxane	9.08	88	224	8.012	ug/l #	5
81) trans-1,4-Dichloro-2-buten	13.55	75	100667	75.773	ug/l #	17

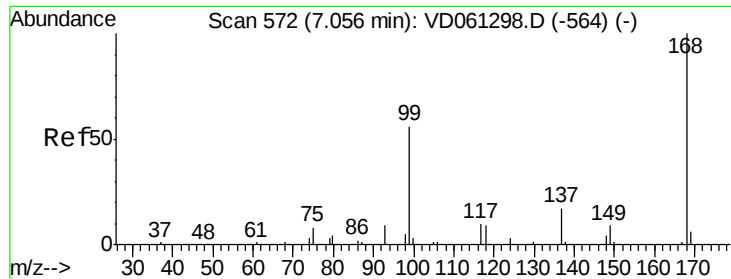
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

Instrument :

MSVOA_D

ClientSampleId :

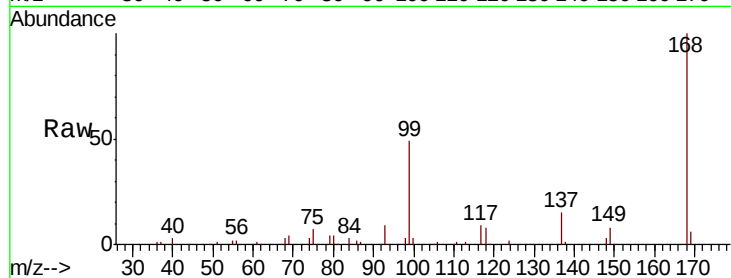
WP022SB440-190318-(23-25)

Tot Ion:168 Resp: 579096

Ion Ratio Lower Upper

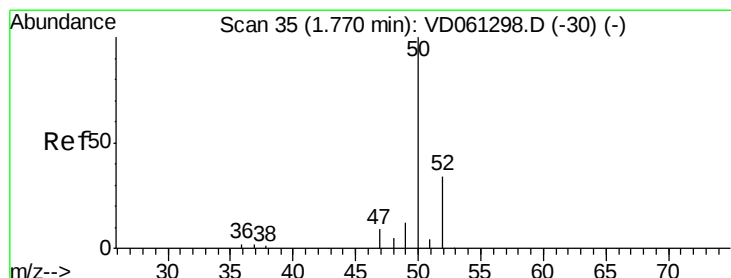
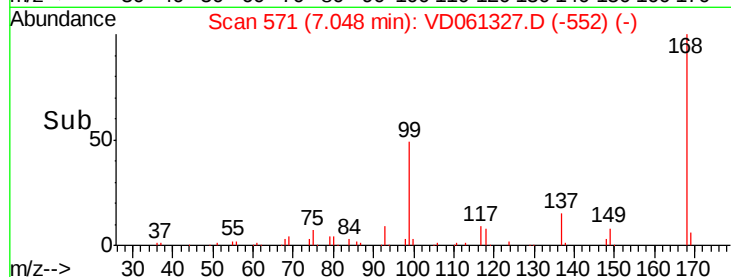
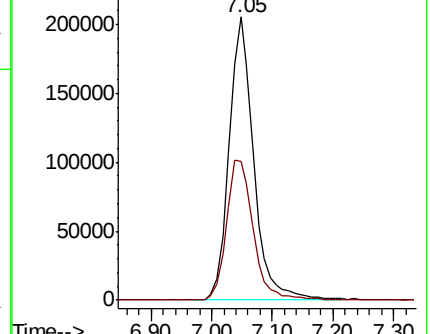
168 100

99 49.1 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 2.987 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.09 min

Lab File: VD061327.D

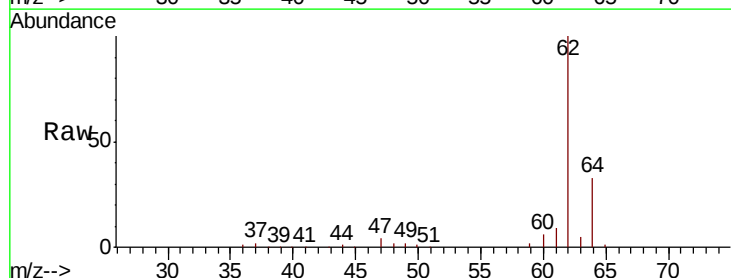
Acq: 26 Mar 2019 5:14

Tgt Ion: 50 Resp: 13796

Ion Ratio Lower Upper

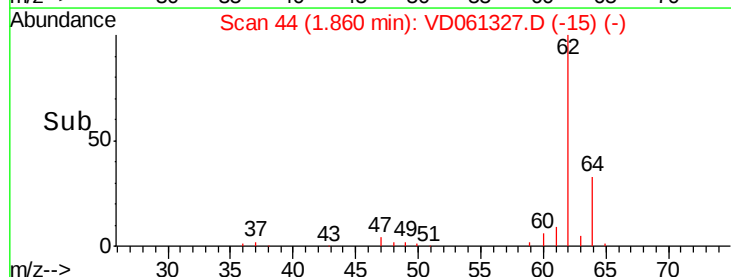
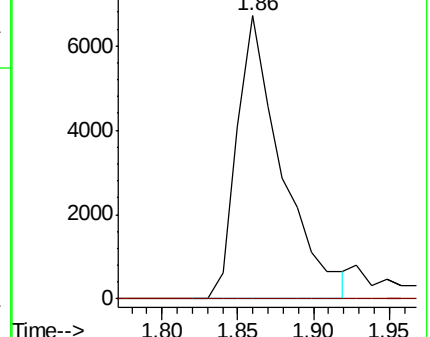
50 100

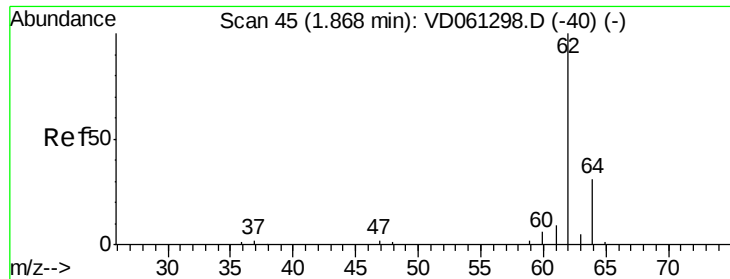
52 0.0 27.1 40.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

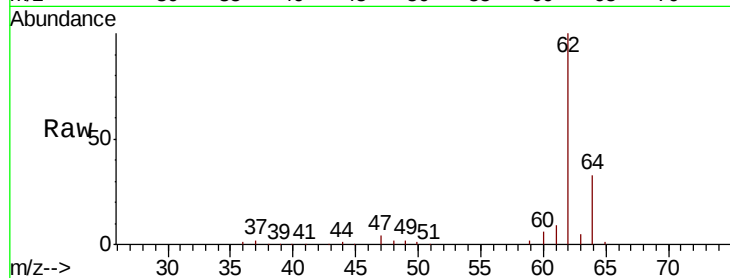




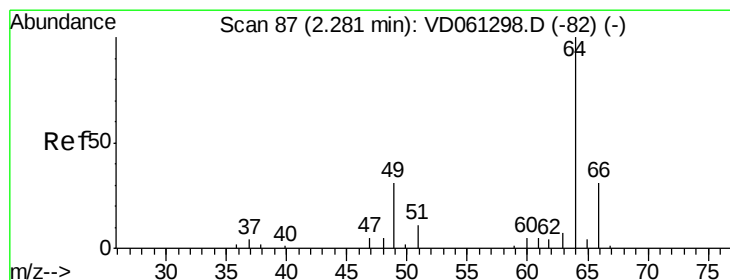
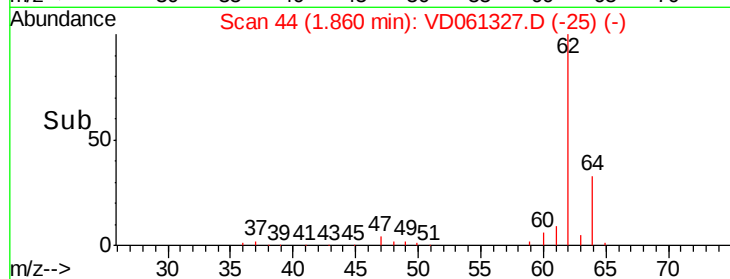
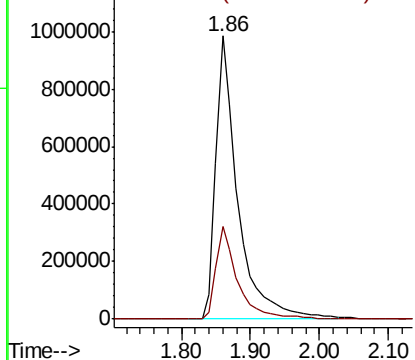
#4
 Vinyl Chloride
 Concen: 503.368 ug/l
 RT: 1.86 min Scan# 44
 Delta R.T. -0.01 min
 Lab File: VD061327.D
 Acq: 26 Mar 2019 5:14

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB440-190318-(23-25)

Tot Ion: 62 Resp: 2173813
 Ion Ratio Lower Upper
 62 100
 64 32.5 25.1 37.7

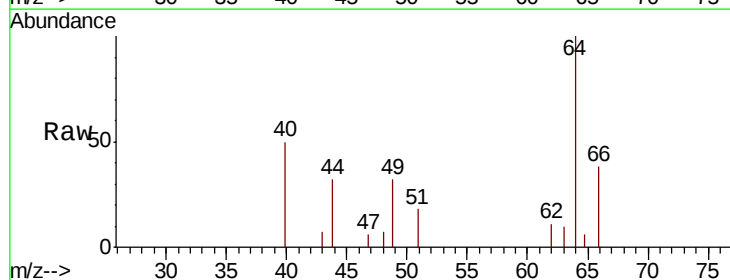


Abundance Ion 61.95 (61.65 to 62.65): VDC
 Ion 63.95 (63.65 to 64.65): VDC

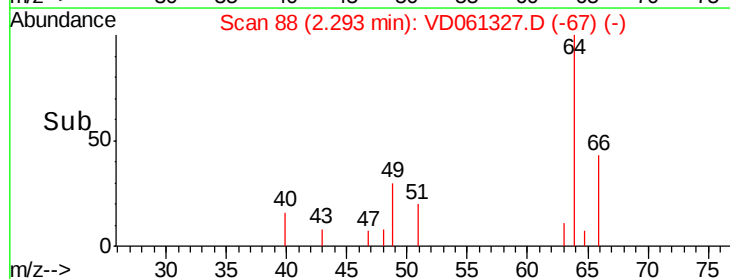
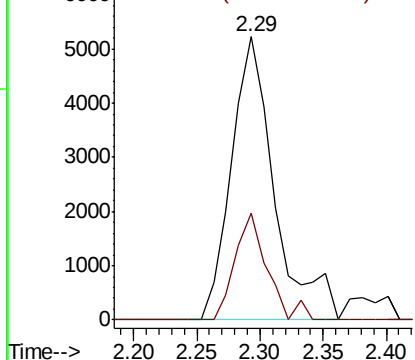


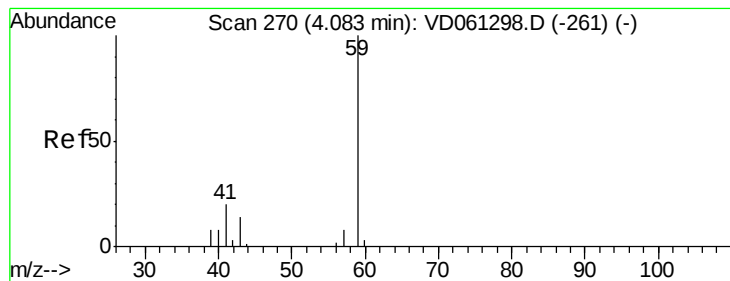
#6
 Chloroethane
 Concen: 9.089 ug/l
 RT: 2.29 min Scan# 88
 Delta R.T. 0.01 min
 Lab File: VD061327.D
 Acq: 26 Mar 2019 5:14

Tgt Ion: 64 Resp: 12348
 Ion Ratio Lower Upper
 64 100
 66 37.8 24.6 36.8#



Abundance Ion 63.95 (63.65 to 64.65): VDC
 Ion 65.90 (65.60 to 66.60): VDC



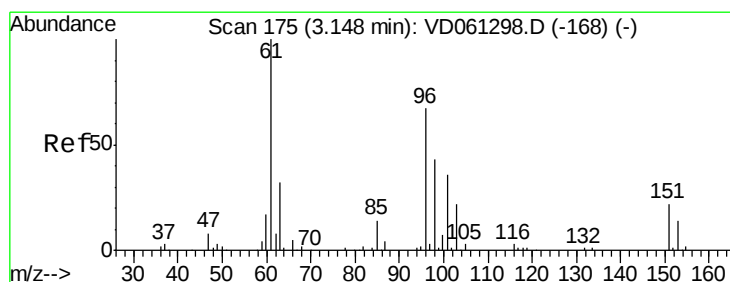
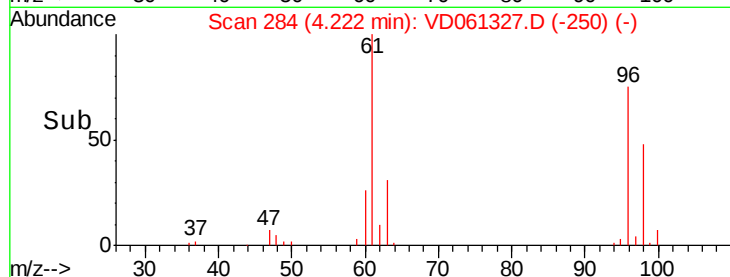
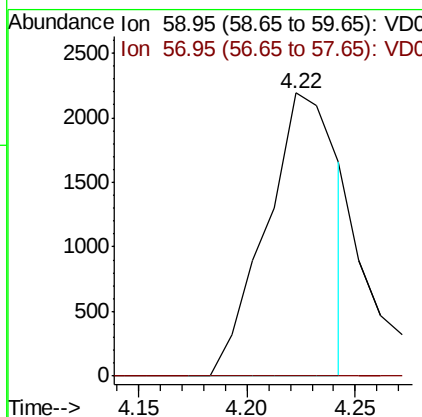
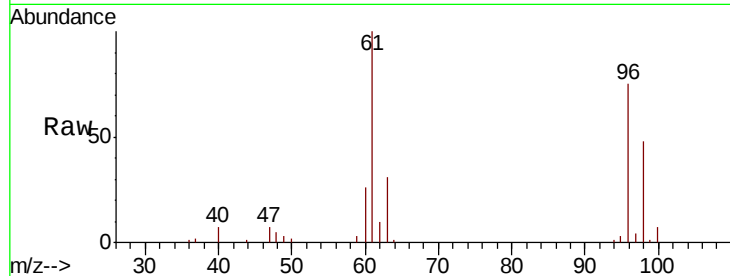


#11

Tert butyl alcohol
Concen: 18.769 ug/l
RT: 4.22 min Scan# 284
Delta R.T. 0.14 min
Lab File: VD061327.D
Acq: 26 Mar 2019 5:14

Instrument :
MSVOA_D
ClientSampleId :
WP022SB440-190318-(23-25)

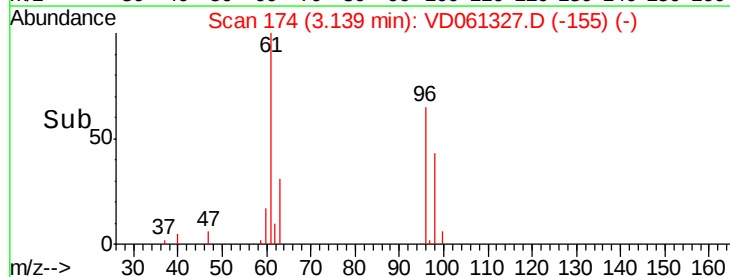
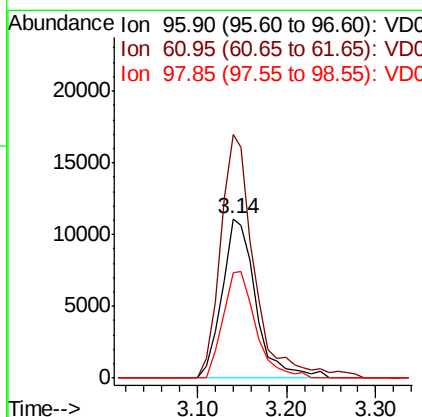
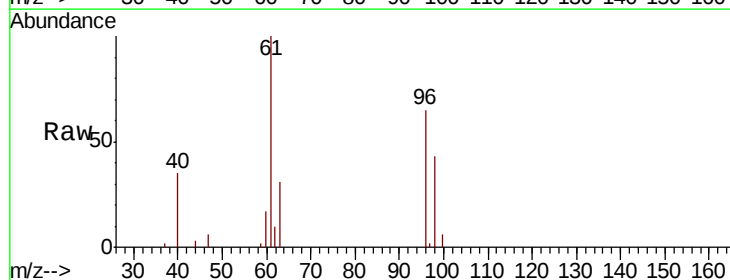
Tot Ion: 59 Resp: 4992
Ion Ratio Lower Upper
59 100
57 0.0 6.6 9.8#

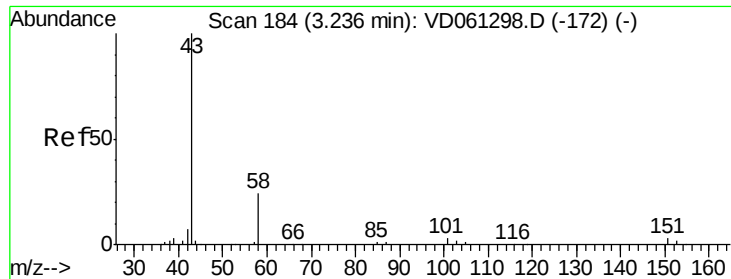


#12

1,1-Dichloroethene
Concen: 5.263 ug/l
RT: 3.14 min Scan# 174
Delta R.T. -0.01 min
Lab File: VD061327.D
Acq: 26 Mar 2019 5:14

Tgt Ion: 96 Resp: 29424
Ion Ratio Lower Upper
96 100
61 152.8 120.2 180.2
98 66.3 52.2 78.4





#16

Acetone

Concen: 2.789 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.00 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

Instrument :

MSVOA_D

ClientSampleId :

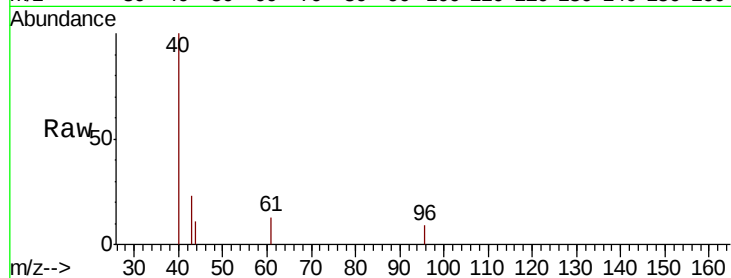
WP022SB440-190318-(23-25)

Tot Ion: 43 Resp: 3333

Ion Ratio Lower Upper

43 100

58 0.0 19.4 29.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

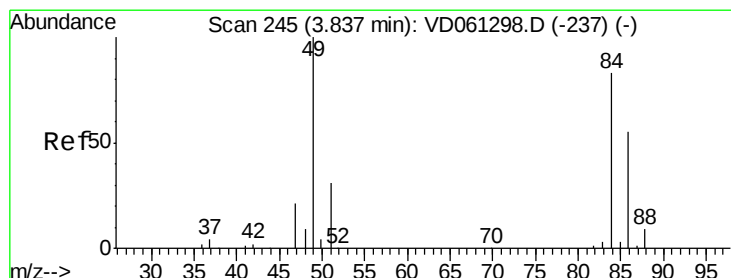
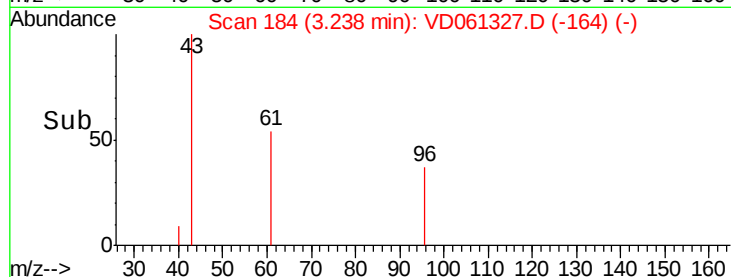
3.24

1000

500

0

Time-->



#20

Methylene Chloride

Concen: 4.725 ug/l

RT: 3.83 min Scan# 244

Delta R.T. -0.01 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

Tgt Ion: 84 Resp: 32048

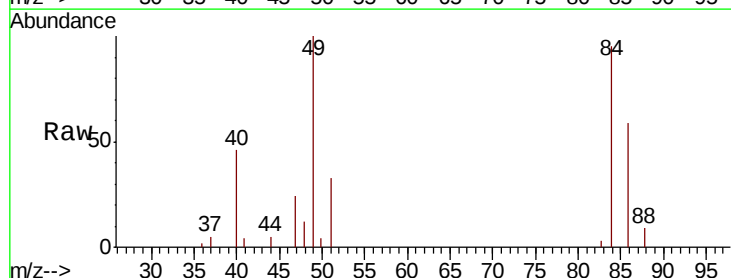
Ion Ratio Lower Upper

84 100

49 105.7 96.8 145.2

51 34.5 29.9 44.9

86 62.3 53.1 79.7



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

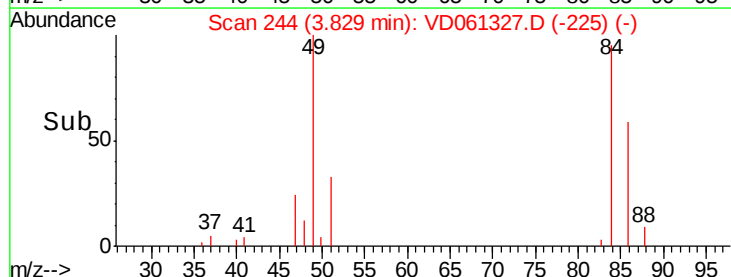
15000

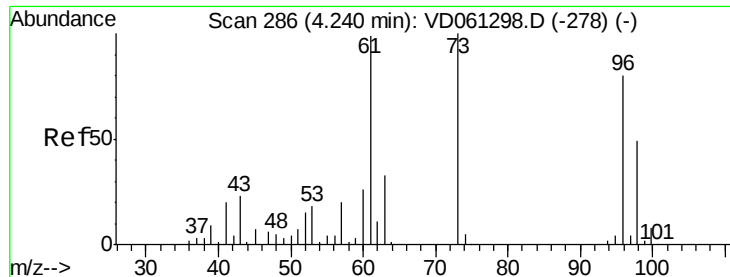
10000

5000

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 28.307 ug/l

RT: 4.23 min Scan# 285

Delta R.T. -0.01 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

Instrument :

MSVOA_D

ClientSampleId :

WP022SB440-190318-(23-25)

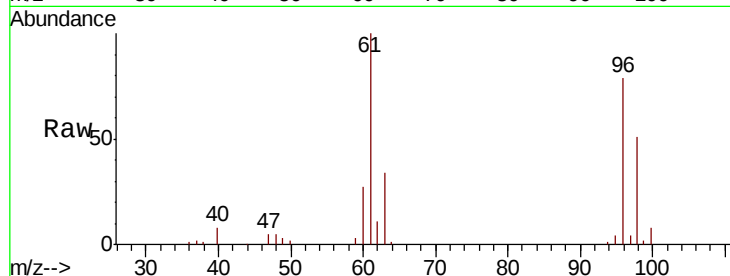
Tot Ion: 96 Resp: 177042

Ion Ratio Lower Upper

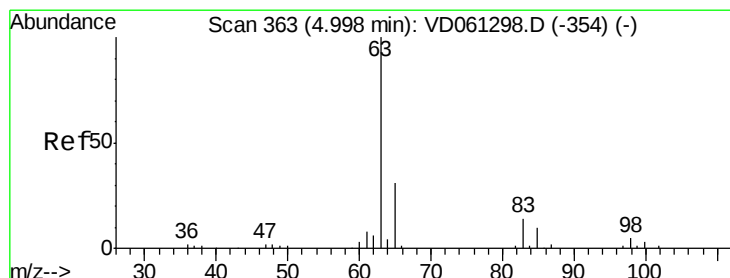
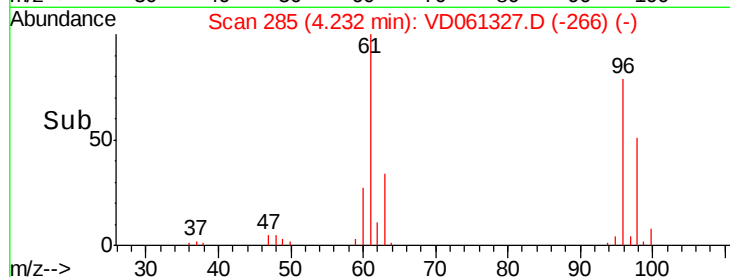
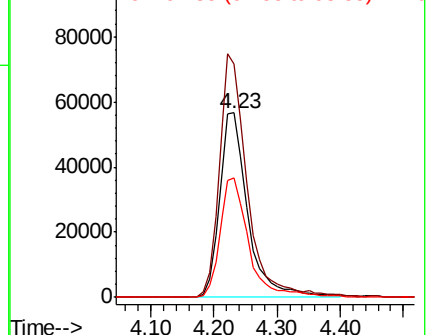
96 100

61 126.5 99.2 148.8

98 64.8 49.2 73.8



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#24

1,1-Dichloroethane

Concen: 49.917 ug/l

RT: 4.99 min Scan# 362

Delta R.T. -0.01 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

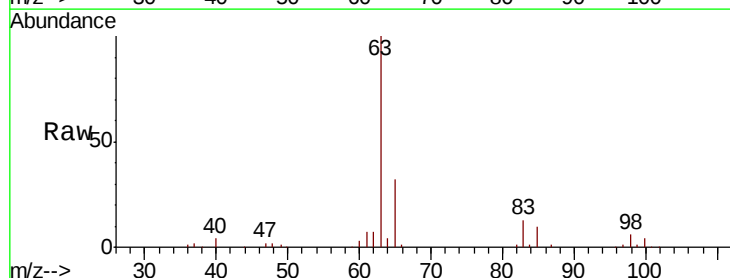
Tgt Ion: 63 Resp: 485988

Ion Ratio Lower Upper

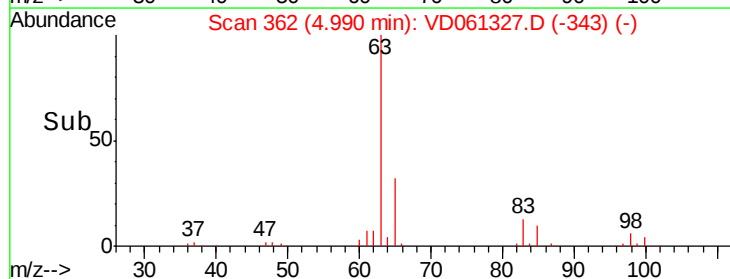
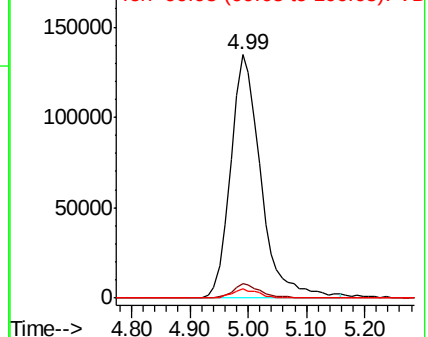
63 100

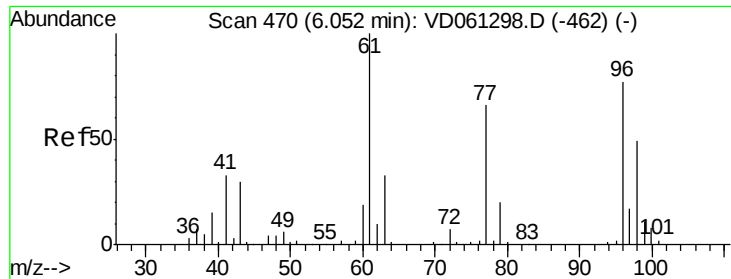
98 6.2 2.8 8.3

100 3.7 1.6 4.8



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC



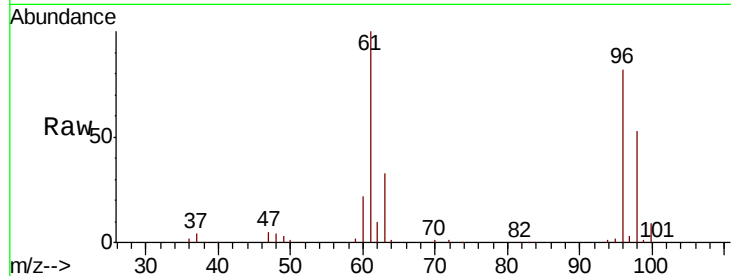


#27

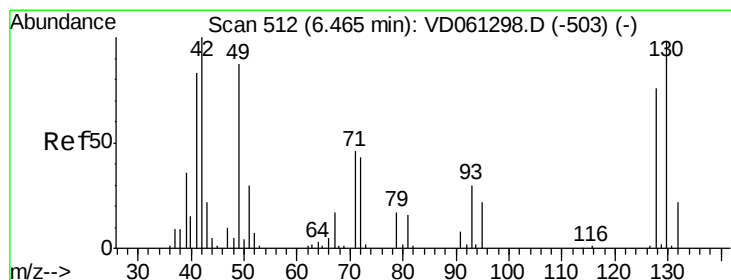
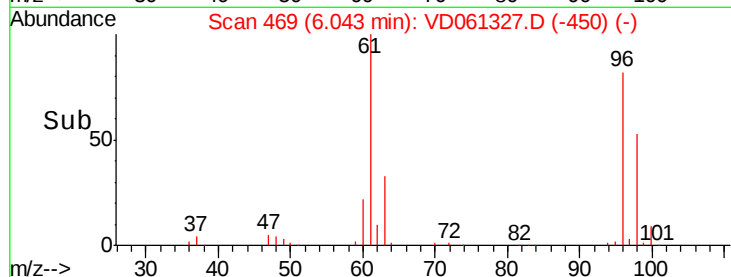
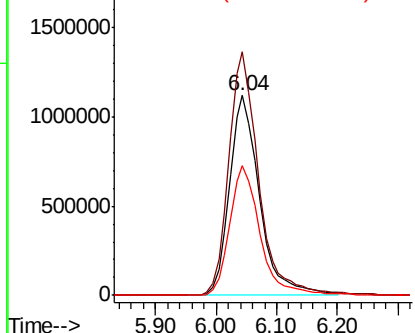
cis-1,2-Dichloroethene
Concen: 574.123 ug/l
RT: 6.04 min Scan# 469
Delta R.T. -0.01 min
Lab File: VD061327.D
Acq: 26 Mar 2019 5:14

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Tot Ion: 96 Resp: 3864226
Ion Ratio Lower Upper
96 100
61 122.0 0.0 261.0
98 64.8 0.0 127.6



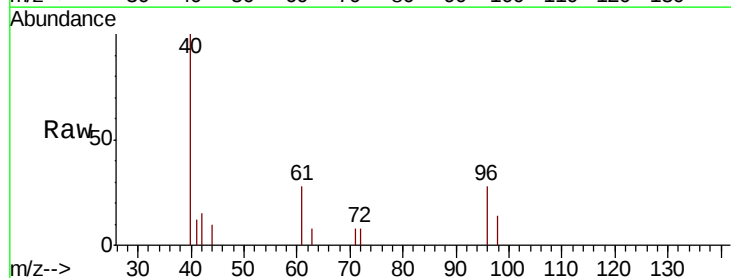
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



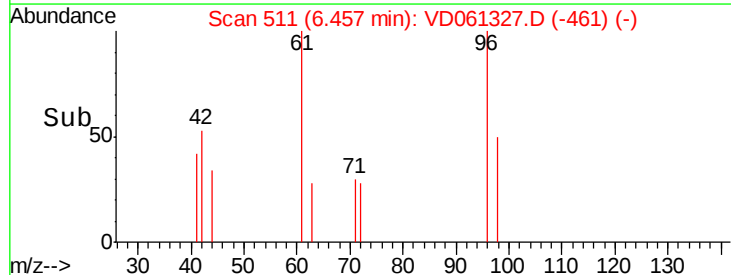
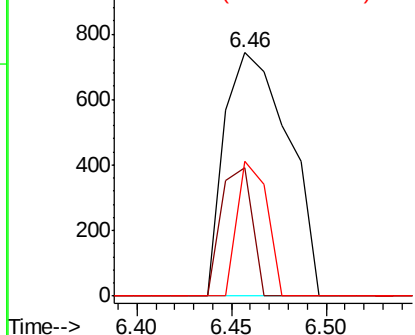
#29

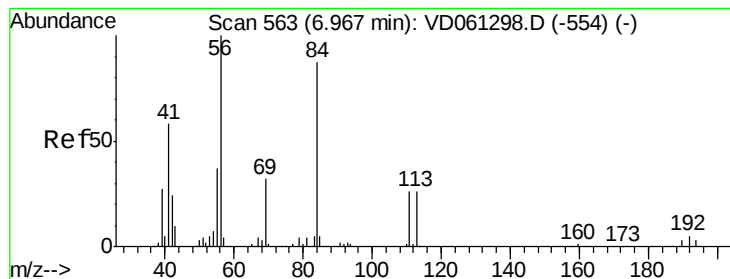
Tetrahydrofuran
Concen: 2.516 ug/l
RT: 6.46 min Scan# 511
Delta R.T. -0.01 min
Lab File: VD061327.D
Acq: 26 Mar 2019 5:14

Tgt Ion: 42 Resp: 1731
Ion Ratio Lower Upper
42 100
72 0.0 36.6 54.8#
71 25.7 36.3 54.5#



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: 1.110 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.08 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

Instrument :

MSVOA_D

ClientSampleId :

WP022SB440-190318-(23-25)

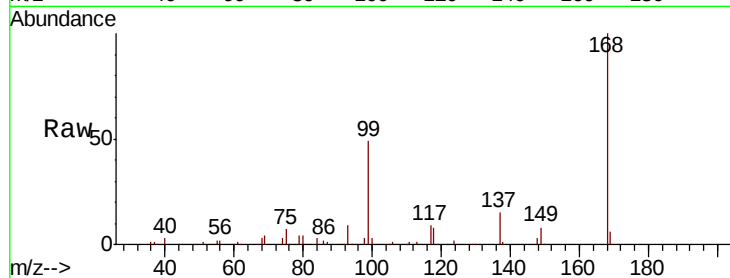
Tot Ion: 56 Resp: 8769

Ion Ratio Lower Upper

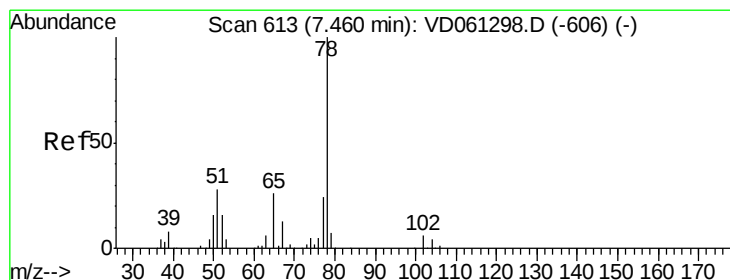
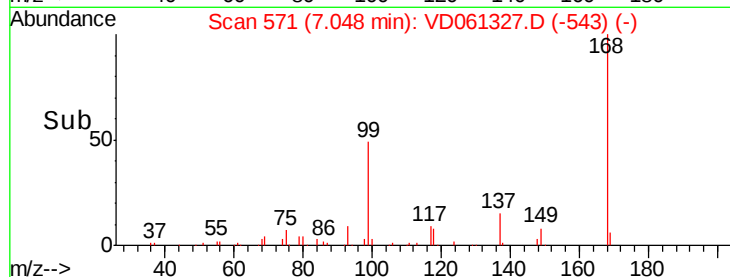
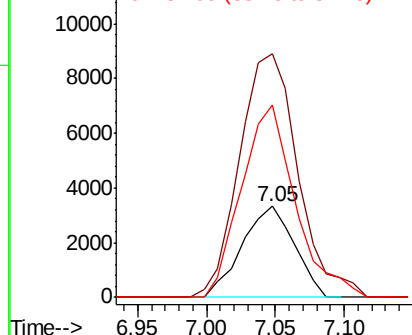
56 100

69 267.2 25.5 38.3#

84 211.1 71.4 107.2#



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. -0.01 min

Lab File: VD061327.D

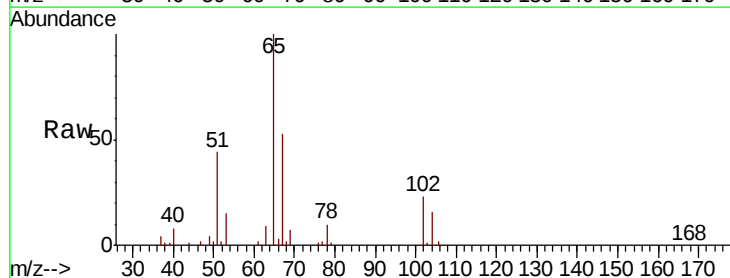
Acq: 26 Mar 2019 5:14

Tgt Ion: 65 Resp: 196506

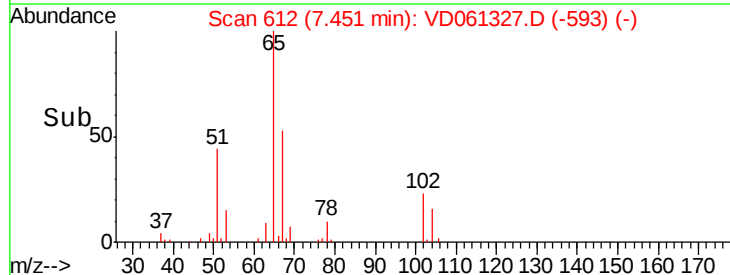
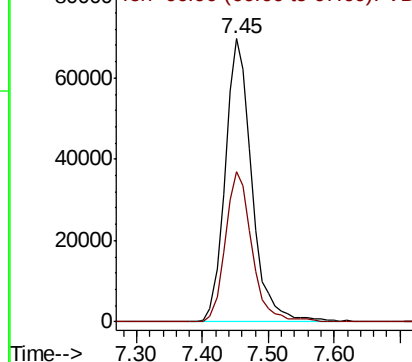
Ion Ratio Lower Upper

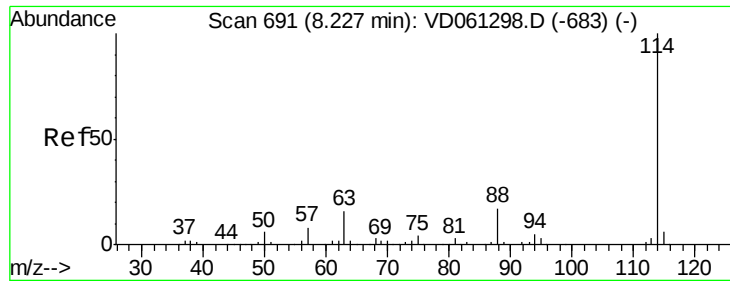
65 100

67 53.1 0.0 100.8



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

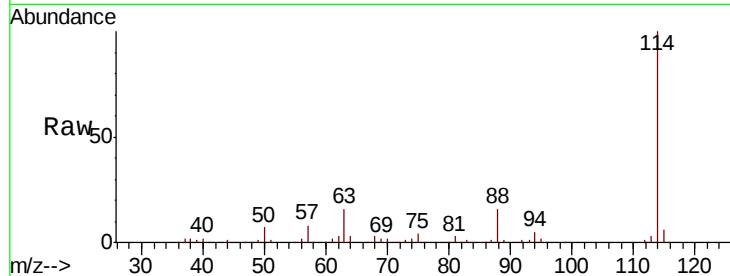




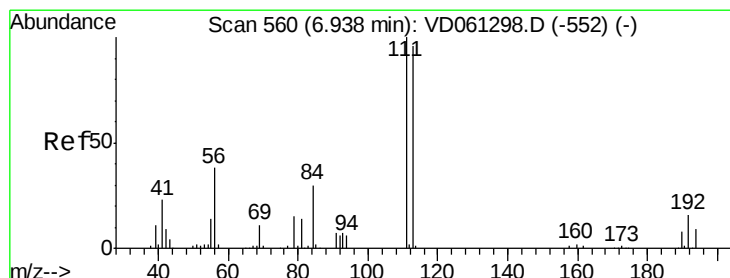
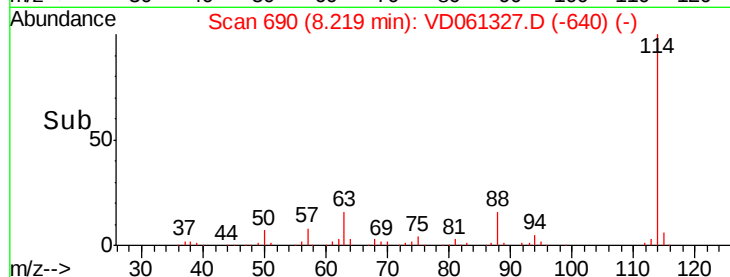
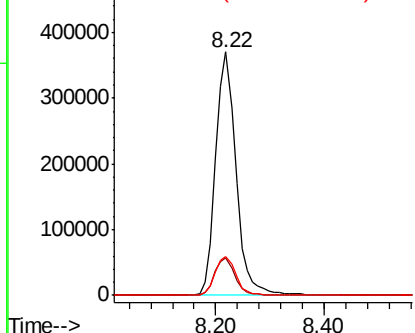
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD061327.D
 Acq: 26 Mar 2019 5:14

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB440-190318-(23-25)

Tot Ion:114 Resp: 968911
 Ion Ratio Lower Upper
 114 100
 63 15.6 0.0 31.4
 88 15.9 0.0 33.2

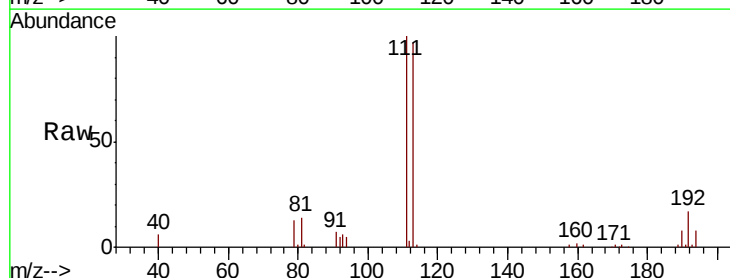


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

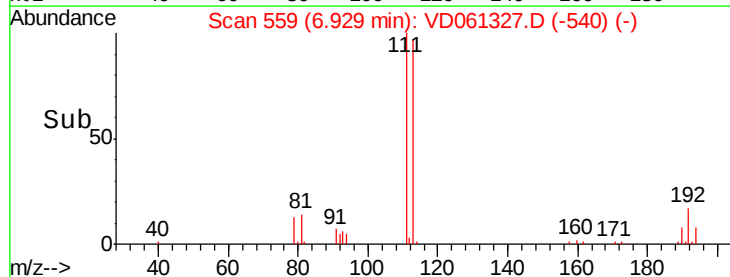
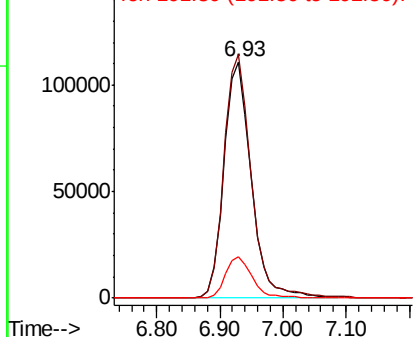


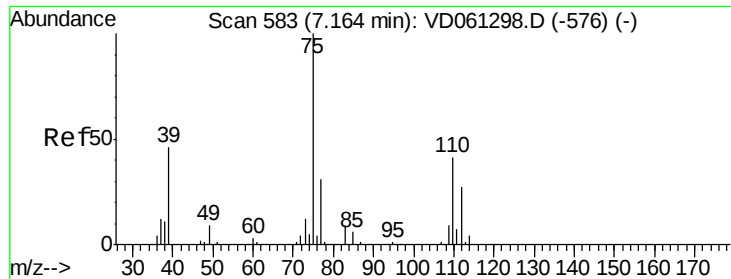
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD061327.D
 Acq: 26 Mar 2019 5:14

Tgt Ion:113 Resp: 333205
 Ion Ratio Lower Upper
 113 100
 111 103.1 83.7 125.5
 192 17.5 13.4 20.0



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

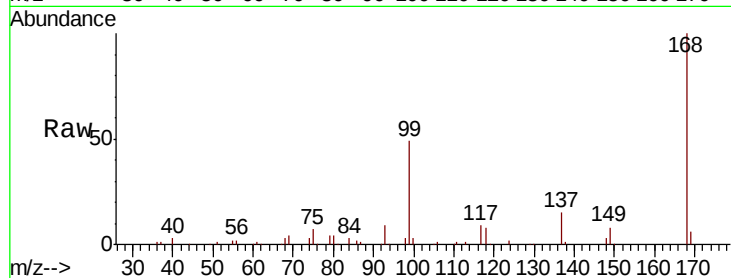




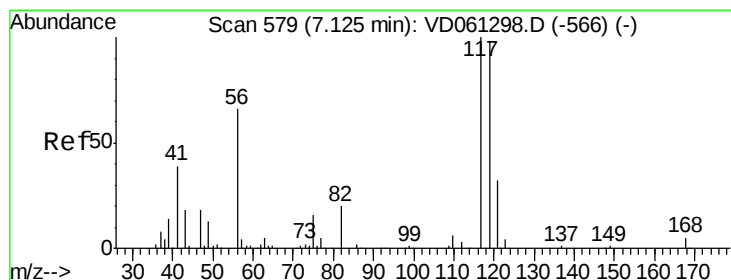
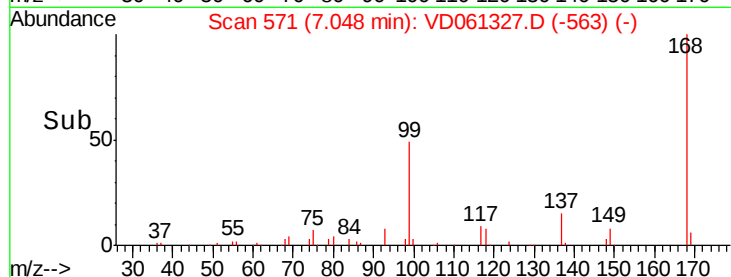
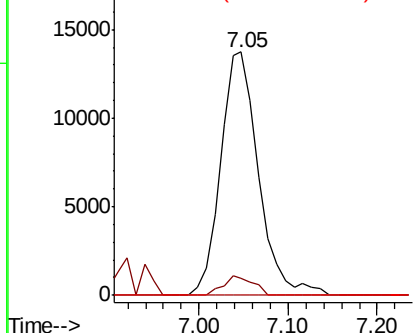
#36
 1,1-Dichloropropene
 Concen: 5.120 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.12 min
 Lab File: VD061327.D
 Acq: 26 Mar 2019 5:14

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB440-190318-(23-25)

Tot Ion: 75 Resp: 40591
 Ion Ratio Lower Upper
 75 100
 110 7.2 20.1 60.2#
 77 0.0 24.3 36.5#

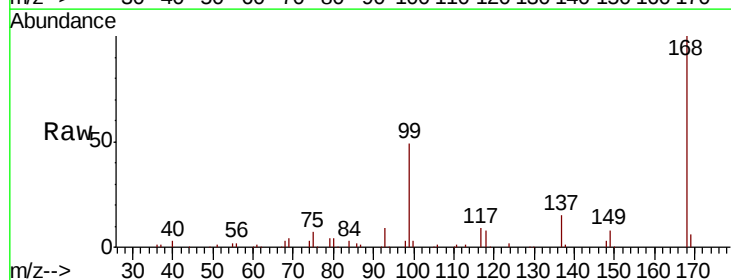


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): V

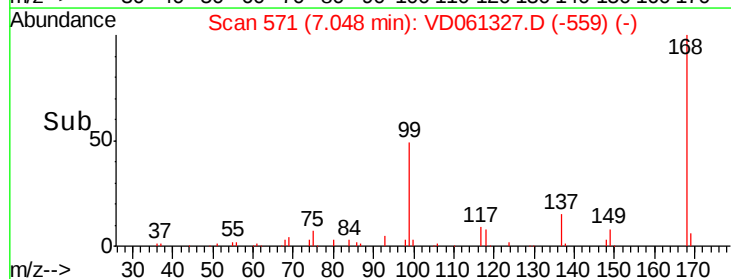
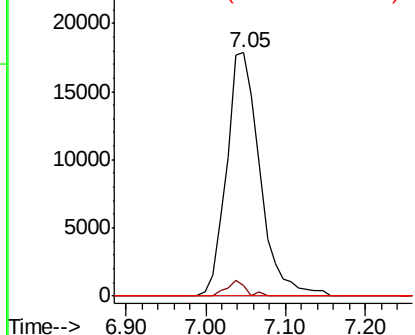


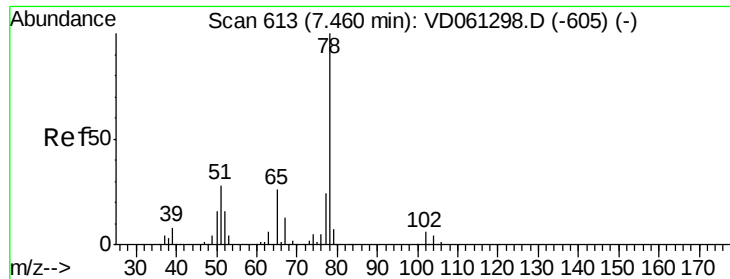
#38
 Carbon Tetrachloride
 Concen: 5.780 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.08 min
 Lab File: VD061327.D
 Acq: 26 Mar 2019 5:14

Tgt Ion: 117 Resp: 52367
 Ion Ratio Lower Upper
 117 100
 119 4.6 78.4 117.6#
 121 0.0 25.1 37.7#



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: 1.042 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

Instrument :

MSVOA_D

ClientSampleId :

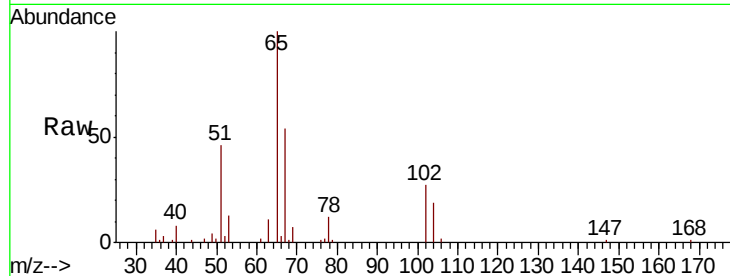
WP022SB440-190318-(23-25)

Tot Ion: 78 Resp: 20509

Ion Ratio Lower Upper

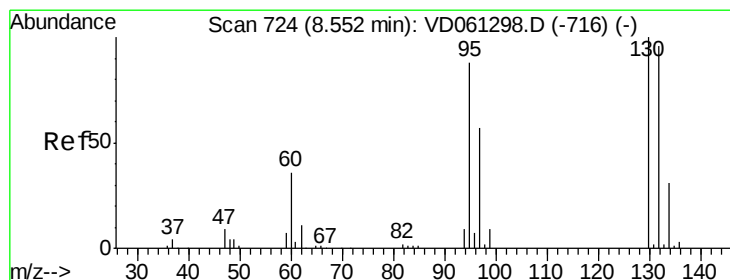
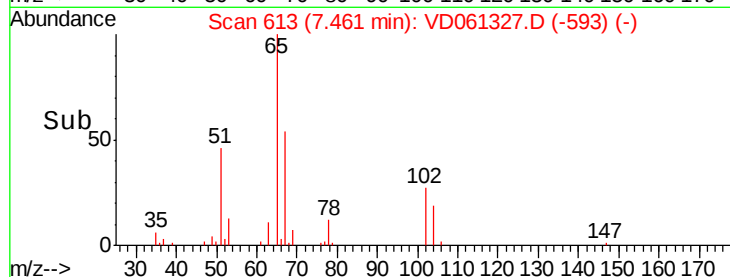
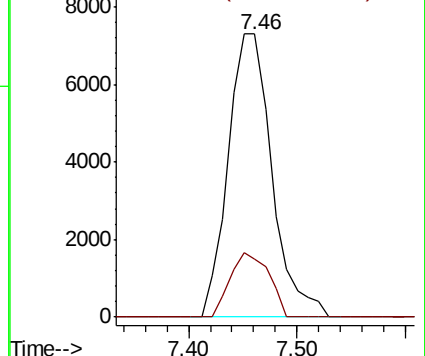
78 100

77 20.5 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#44

Trichloroethene

Concen: 40.975 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.01 min

Lab File: VD061327.D

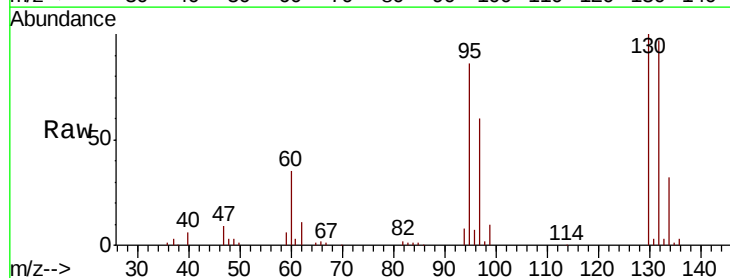
Acq: 26 Mar 2019 5:14

Tgt Ion:130 Resp: 291751

Ion Ratio Lower Upper

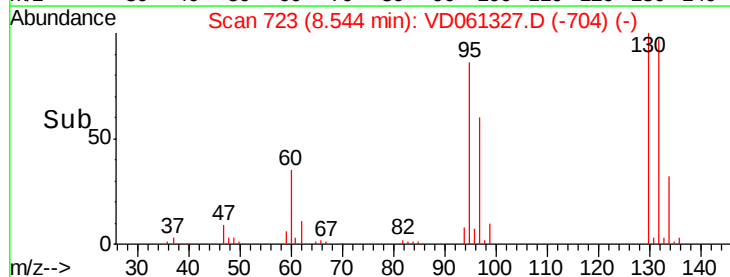
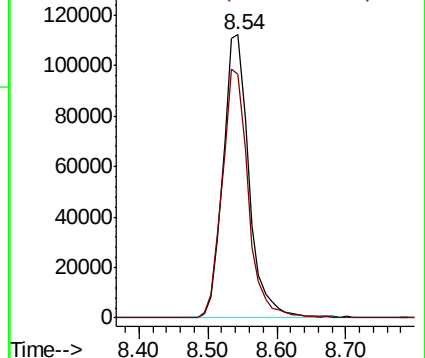
130 100

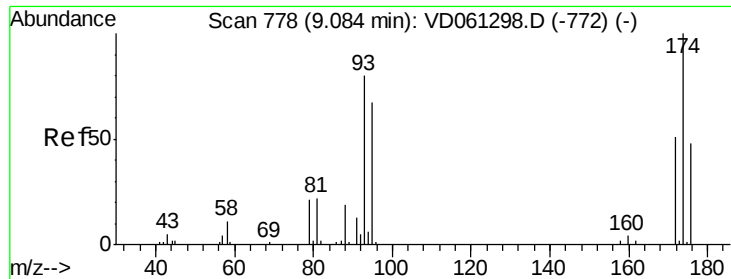
95 86.3 0.0 175.0



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC

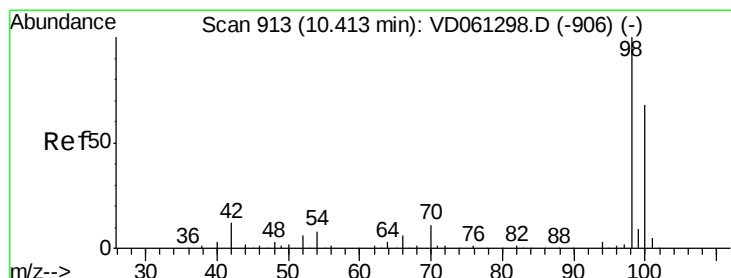
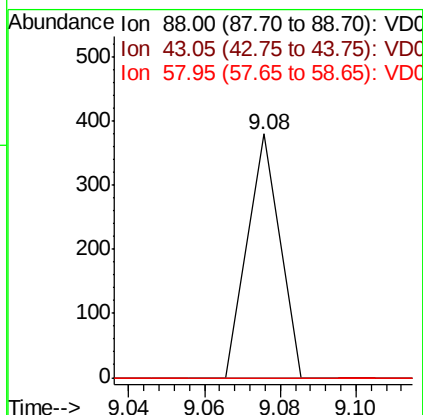
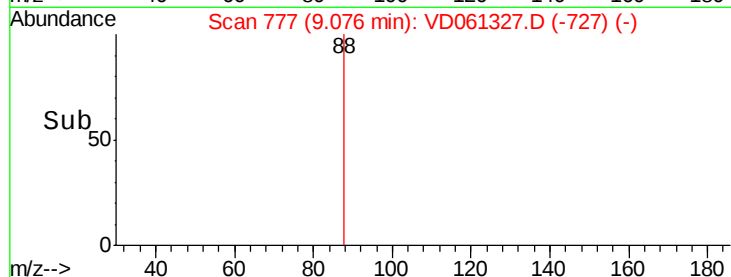
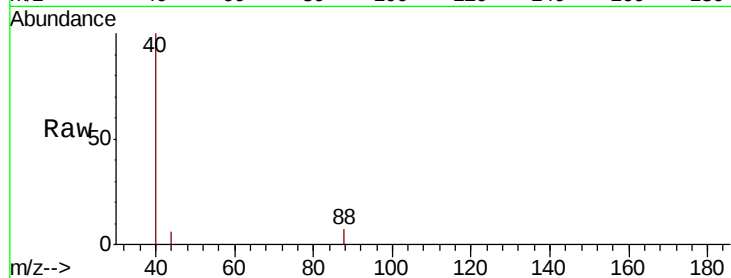




#49
 1,4-Dioxane
 Concen: 8.012 ug/l
 RT: 9.08 min Scan# 777
 Delta R.T. -0.01 min
 Lab File: VD061327.D
 Acq: 26 Mar 2019 5:14

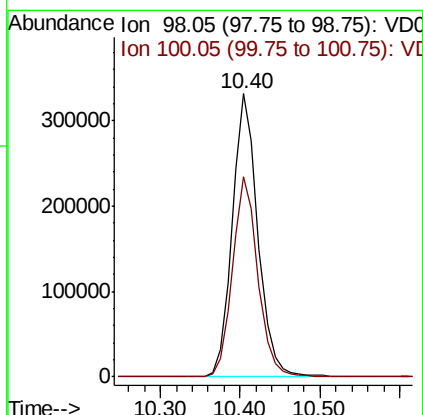
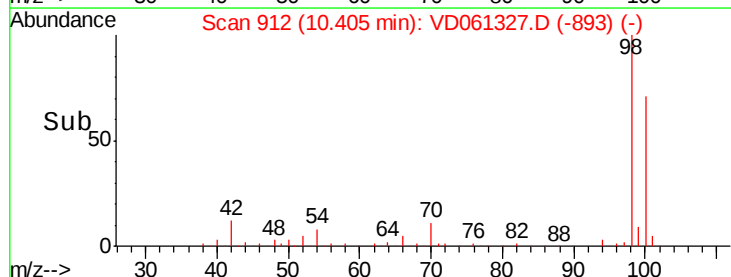
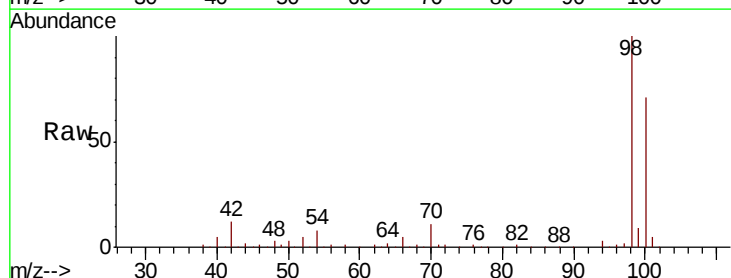
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB440-190318-(23-25)

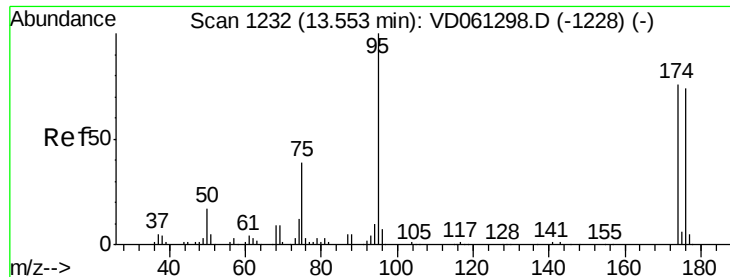
Tot Ion: 88 Resp: 224
 Ion Ratio Lower Upper
 88 100
 43 95.0 20.7 31.1#
 58 0.0 44.9 67.3#



#50
 Toluene-d8
 Concen: 8.012 ug/l
 RT: 10.40 min Scan# 912
 Delta R.T. -0.01 min
 Lab File: VD061327.D
 Acq: 26 Mar 2019 5:14

Tgt Ion: 98 Resp: 743038
 Ion Ratio Lower Upper
 98 100
 100 70.6 55.4 83.0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

Instrument :

MSVOA_D

ClientSampleId :

WP022SB440-190318-(23-25)

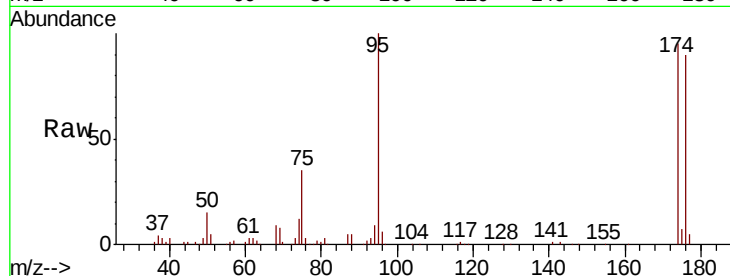
Tot Ion: 95 Resp: 274025

Ion Ratio Lower Upper

95 100

174 94.8 0.0 151.8

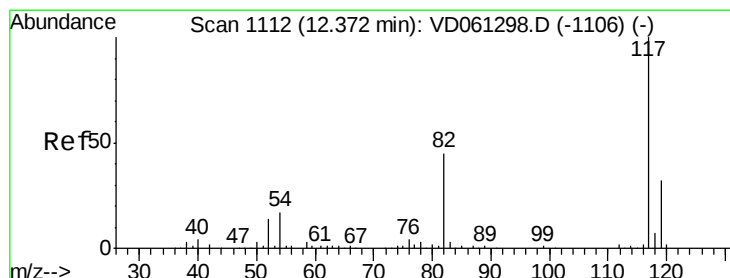
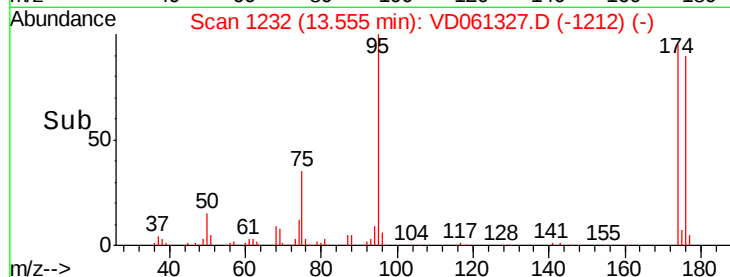
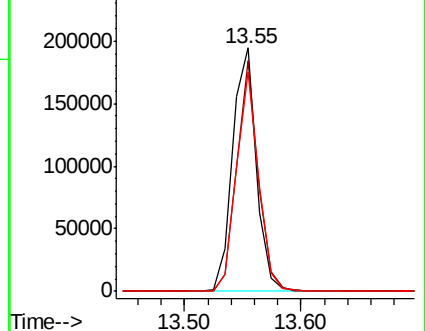
176 89.9 0.0 148.0



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: 12.36 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

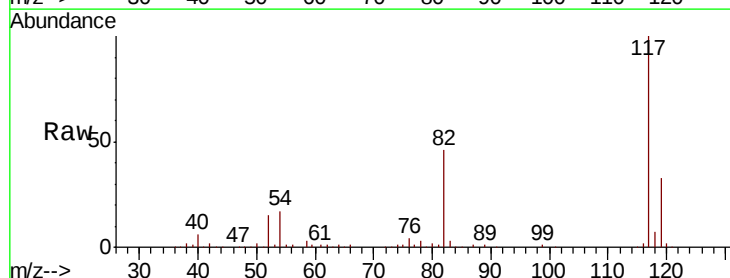
Tgt Ion: 117 Resp: 774104

Ion Ratio Lower Upper

117 100

82 45.8 35.7 53.5

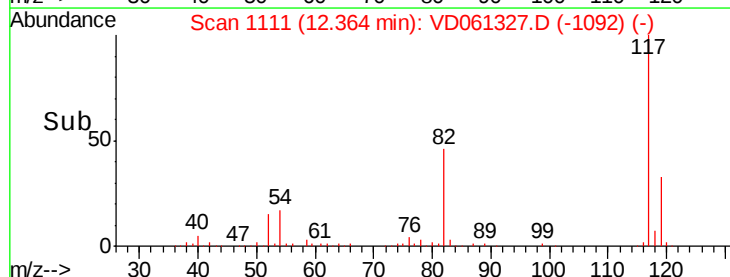
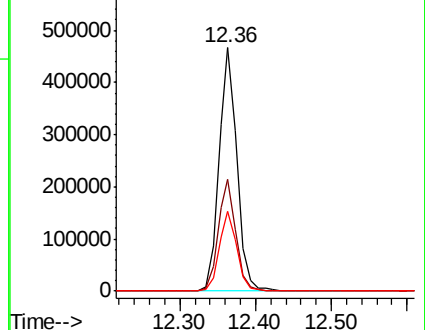
119 32.7 25.9 38.9

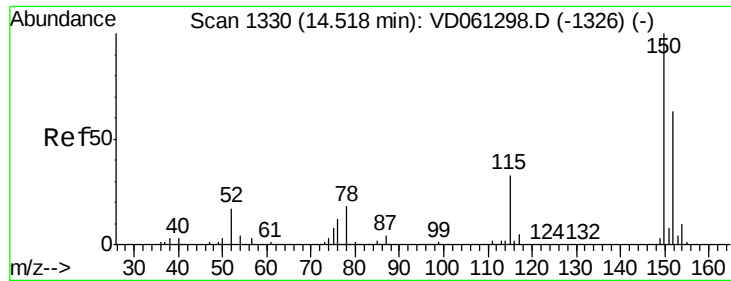


Abundance Ion 116.95 (116.65 to 117.65): V

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# 1330

Delta R.T. 0.00 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

Instrument :

MSVOA_D

ClientSampleId :

WP022SB440-190318-(23-25)

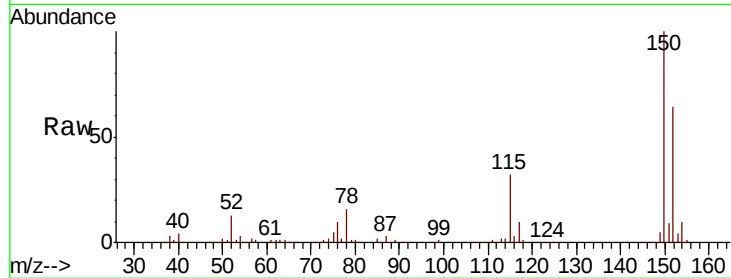
Tot Ion:152 Resp: 338503

Ion Ratio Lower Upper

152 100

115 49.9 29.2 87.6

150 156.5 0.0 319.6



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

500000

400000

300000

200000

100000

0

14.52

14.50

14.52

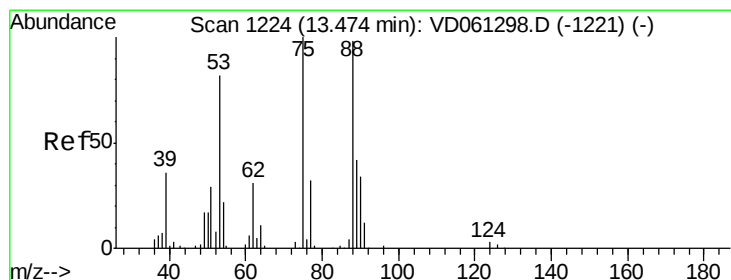
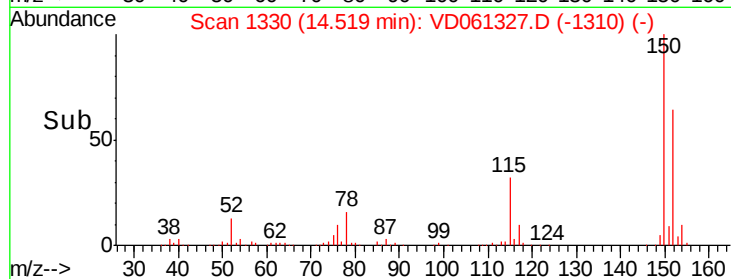
14.54

14.56

14.58

14.60

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 75.773 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061327.D

Acq: 26 Mar 2019 5:14

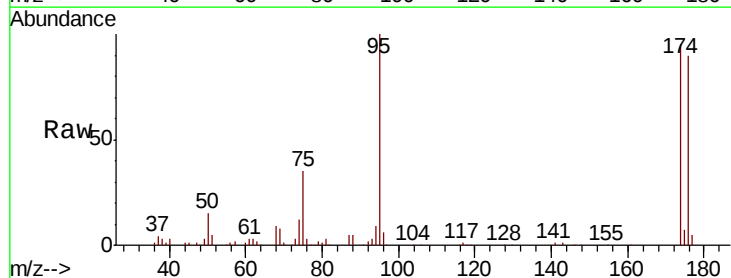
Tgt Ion: 75 Resp: 100667

Ion Ratio Lower Upper

75 100

53 0.0 65.3 97.9#

89 0.0 33.8 50.6#



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

80000

60000

40000

20000

0

13.55

13.50

13.55

13.60

Time-->

