

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062518\
 Data File : VV006432.D
 Acq On : 25 Jun 2018 15:49
 Operator : SY/MD
 Sample : J3673-01
 Misc : 25 mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DAZ55

Quant Time: Jun 26 06:53:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jun 26 06:50:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	336555	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	308637	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	138231	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	101856	4.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.00%
7) Chloroethane-d5	1.58	69	78861	4.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.40%
11) 1,1-Dichloroethene-d2	2.13	63	177488	4.53	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.60%
20) 2-Butanone-d5	3.98	46	191430	46.16	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	92.32%
24) Chloroform-d	4.40	84	173161	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	5.09	65	80595	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.40%
32) Benzene-d6	5.10	84	362395	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
36) 1,2-Dichloropropane-d6	6.12	67	106939	4.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.40%
41) Toluene-d8	7.36	98	338457	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.80%
43) trans-1,3-Dichloropropene-	7.67	79	36372	4.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.40%
46) 2-Hexanone-d5	8.14	63	152388	43.61	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.22%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	62444	4.25	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.00%
64) 1,2-Dichlorobenzene-d4	11.68	152	118975	4.63	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	172812	7.007 ug/L	100
5) Vinyl chloride	1.32	62	353545	12.871 ug/L	99
8) Chloroethane	1.32	64	109177	6.266 ug/L #	45
12) 1,1-Dichloroethene	2.14	96	89265	4.386 ug/L	95
16) Methylene chloride	2.54	84	8675	0.364 ug/L	95
18) trans-1,2-Dichloroethene	2.79	96	48047	2.156 ug/L	100
19) 1,1-Dichloroethane	3.23	63	57705	1.454 ug/L	99
25) Chloroform	4.43	83	233194	5.830 ug/L	99
29) 1,1,1-Trichloroethane	4.66	97	67260	1.998 ug/L	100
31) Carbon tetrachloride	4.66	117	9307	0.330 ug/L	95
34) Trichloroethene	5.96	95	72440	2.778 ug/L	99
35) Methylcyclohexane	6.12	83	26298	0.694 ug/L #	20
37) 1,2-Dichloropropane	6.23	63	168259	7.554 ug/L	100
38) Bromodichloromethane	6.56	83	70562	2.752 ug/L	100
47) Tetrachloroethene	8.02	164	77512	3.935 ug/L	99
48) 2-Hexanone	8.19	43	16269	2.086 ug/L #	80
49) Dibromochloromethane	8.30	129	151079	9.212 ug/L	100

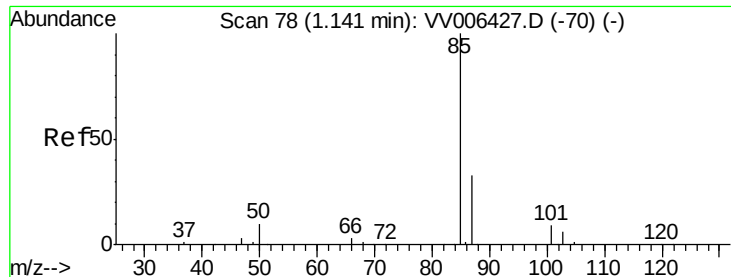
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062518\
Data File : VV006432.D
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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jun 26 06:50:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	8.40	107	82983	6.000	ug/L	98
51) Chlorobenzene	8.93	112	1122002	17.567	ug/L	99
61) Bromoform	9.78	173	116335	14.996	ug/L	99
62) 1,3-Dichlorobenzene	11.32	146	356729	7.835	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	356729	7.833	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	16759	9.255	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 7.007 ug/L

RT: 1.14 min Scan# 78

Delta R.T. 0.00 min

Lab File: VV006432.D

Acq: 25 Jun 2018 15:49

Instrument :

MSVOA_V

ClientSampleId :

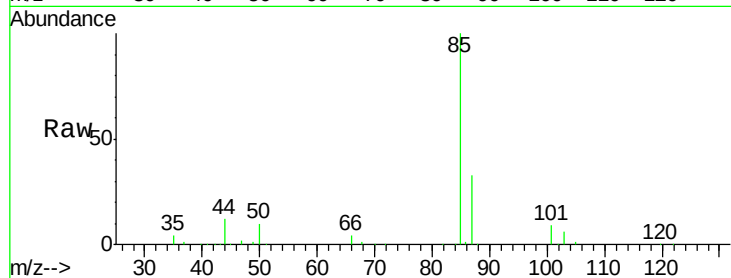
DAZ55

Tgt Ion: 85 Resp: 172812

Ion Ratio Lower Upper

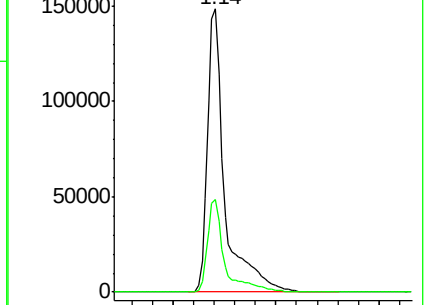
85 100

87 32.4 25.9 38.9

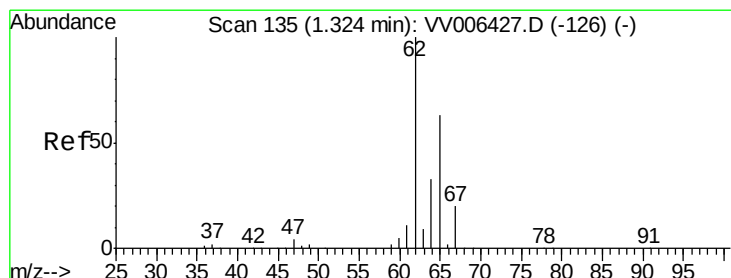
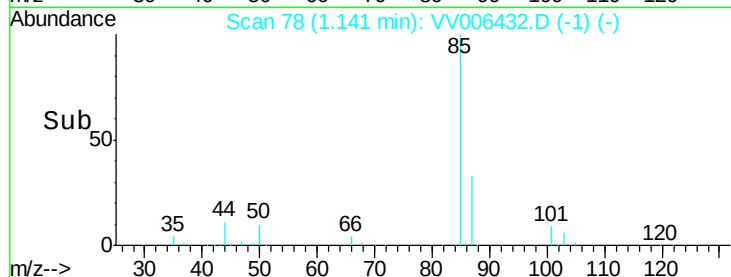


Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



Time-->



#5

Vinyl chloride

Concen: 12.871 ug/L

RT: 1.32 min Scan# 135

Delta R.T. 0.00 min

Lab File: VV006432.D

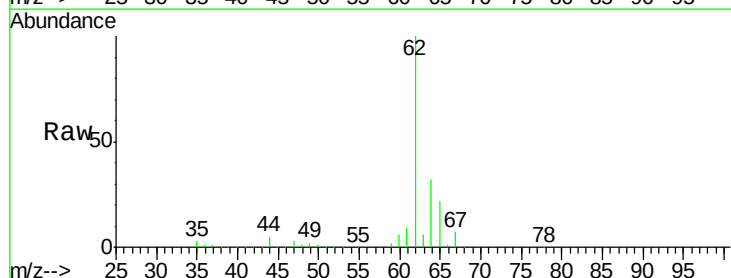
Acq: 25 Jun 2018 15:49

Tgt Ion: 62 Resp: 353545

Ion Ratio Lower Upper

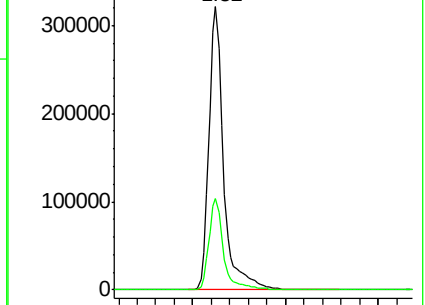
62 100

64 32.5 23.1 42.9

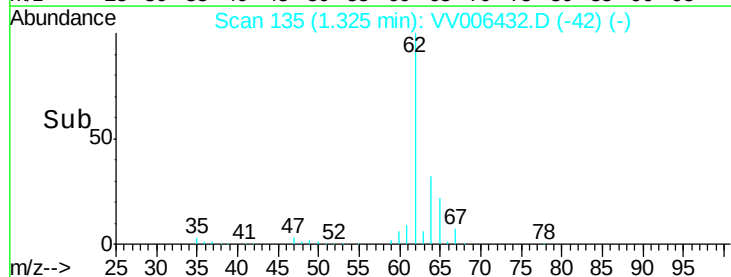


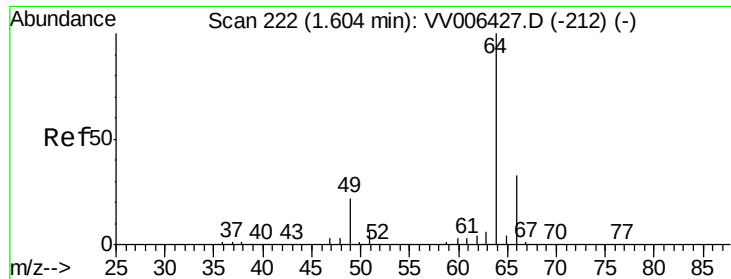
Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



Time-->





#8

Chloroethane

Concen: 6.266 ug/L

RT: 1.32 min Scan# 135

Delta R.T. -0.28 min

Lab File: VV006432.D

Acq: 25 Jun 2018 15:49

Instrument :

MSVOA_V

ClientSampleId :

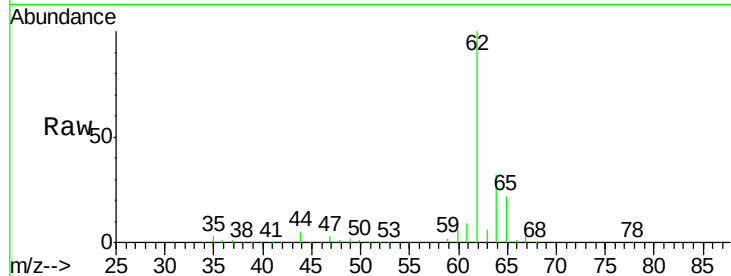
DAZ55

Tgt Ion: 64 Resp: 109177

Ion Ratio Lower Upper

64 100

66 1.8 22.8 42.4#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

1.32

100000

80000

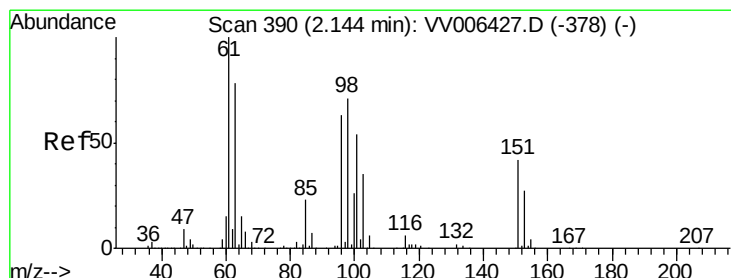
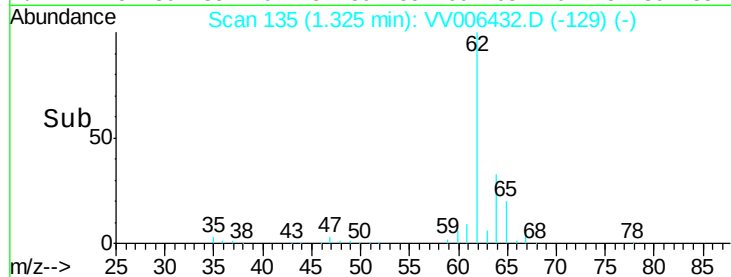
60000

40000

20000

0

Time-->



#12

1,1-Dichloroethene

Concen: 4.386 ug/L

RT: 2.14 min Scan# 390

Delta R.T. 0.00 min

Lab File: VV006432.D

Acq: 25 Jun 2018 15:49

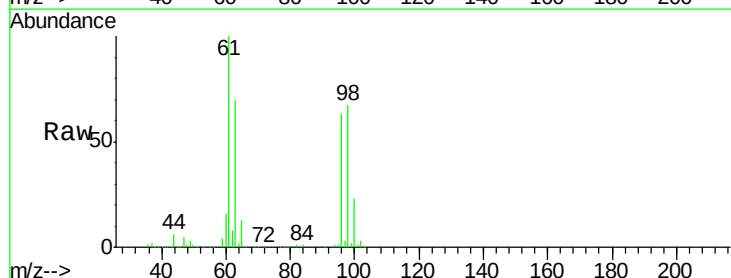
Tgt Ion: 96 Resp: 89265

Ion Ratio Lower Upper

96 100

61 159.6 111.4 207.0

63 111.9 87.4 162.2



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

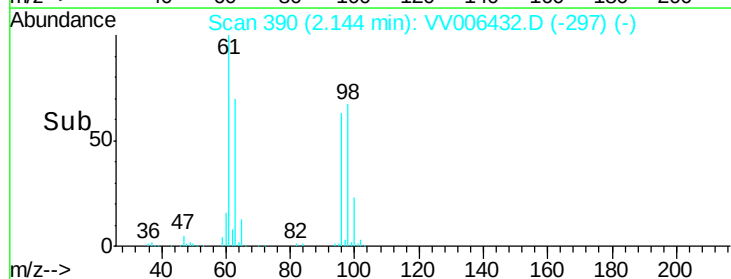
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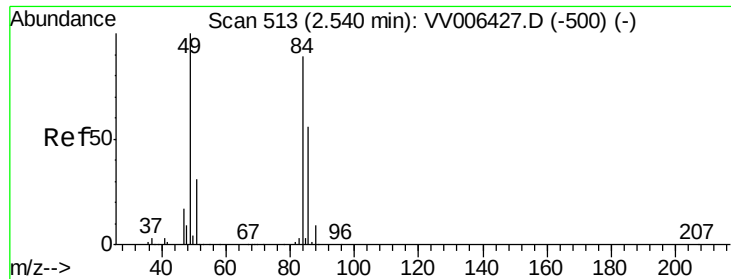
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Time-->

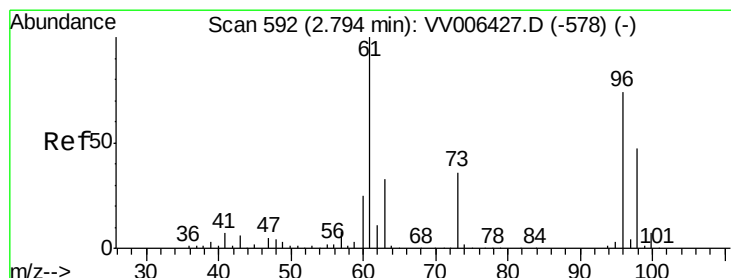
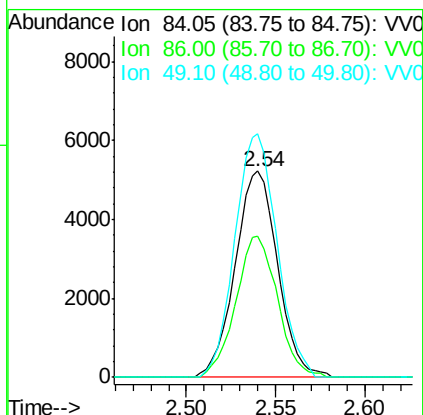
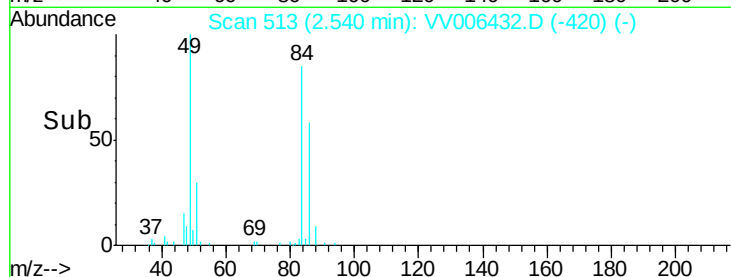
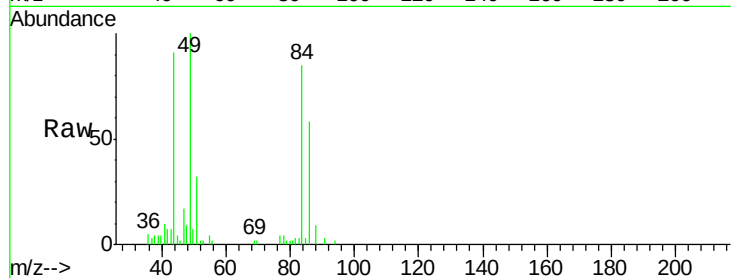




#16
Methylene chloride
Concen: 0.364 ug/L
RT: 2.54 min Scan# 513
Delta R.T. 0.00 min
Lab File: VV006432.D
Acq: 25 Jun 2018 15:49

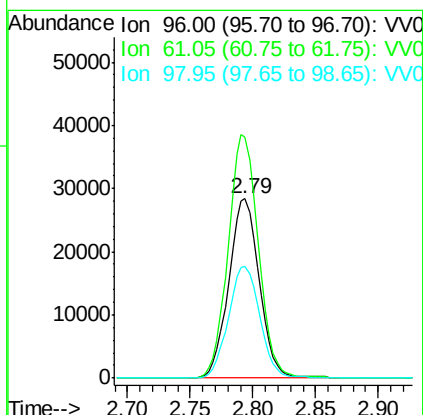
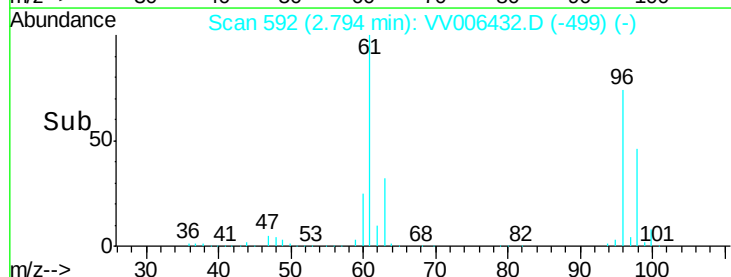
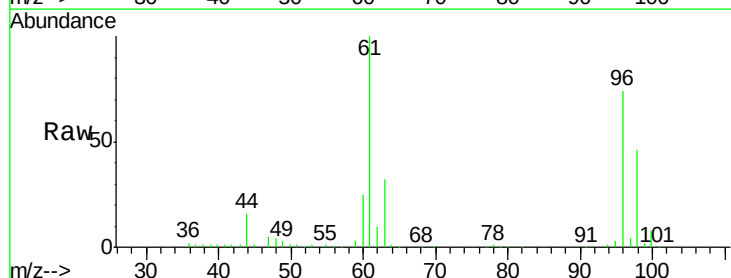
Instrument :
MSVOA_V
ClientSampled :
DAZ55

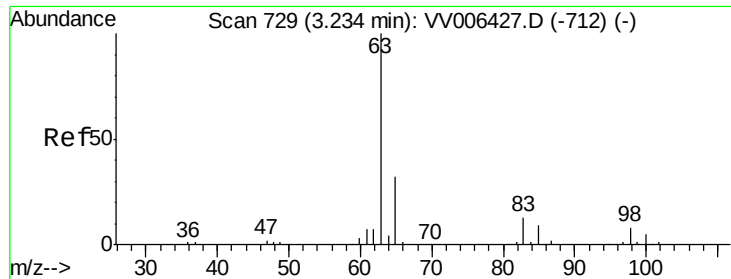
Tgt Ion: 84 Resp: 8675
Ion Ratio Lower Upper
84 100
86 68.4 44.2 82.2
49 118.1 79.0 146.8



#18
trans-1,2-Dichloroethene
Concen: 2.156 ug/L
RT: 2.79 min Scan# 592
Delta R.T. 0.00 min
Lab File: VV006432.D
Acq: 25 Jun 2018 15:49

Tgt Ion: 96 Resp: 48047
Ion Ratio Lower Upper
96 100
61 134.6 94.4 175.2
98 62.3 44.3 82.3

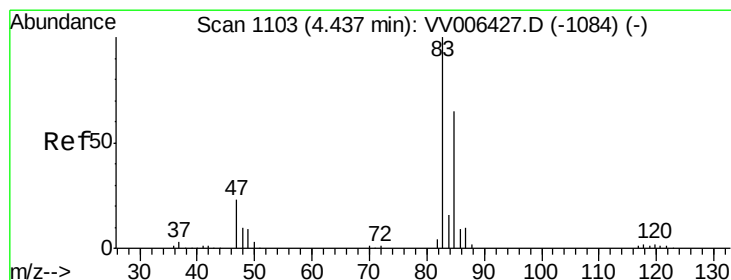
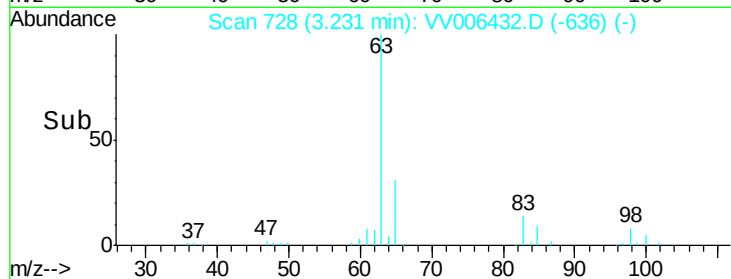
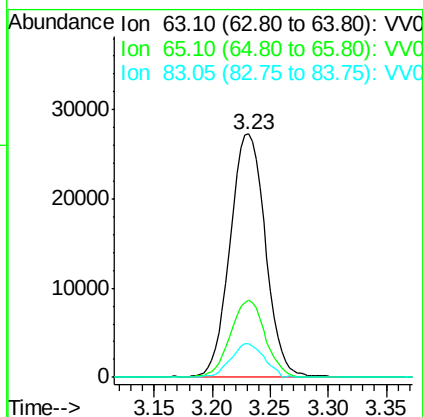
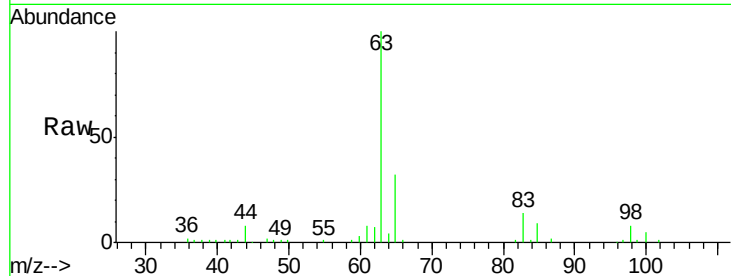




#19
 1,1-Dichloroethane
 Concen: 1.454 ug/L
 RT: 3.23 min Scan# 728
 Delta R.T. -0.00 min
 Lab File: VV006432.D
 Acq: 25 Jun 2018 15:49

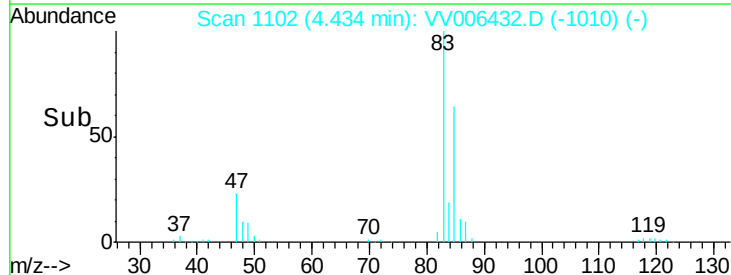
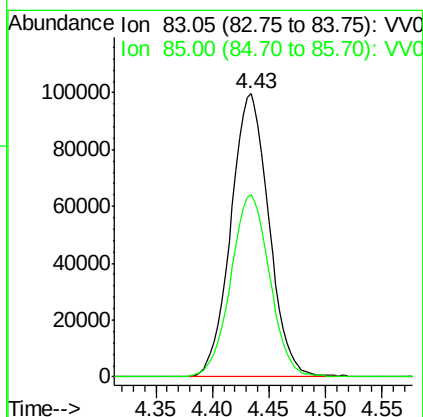
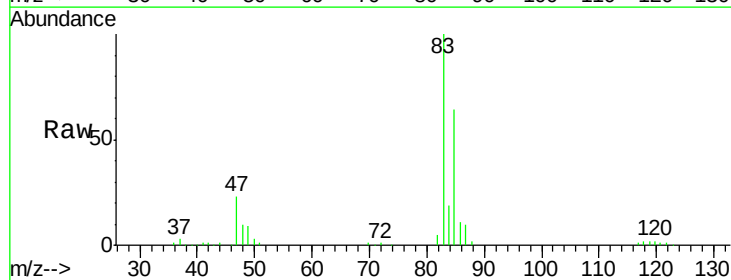
Instrument :
 MSVOA_V
 ClientSampleId :
 DAZ55

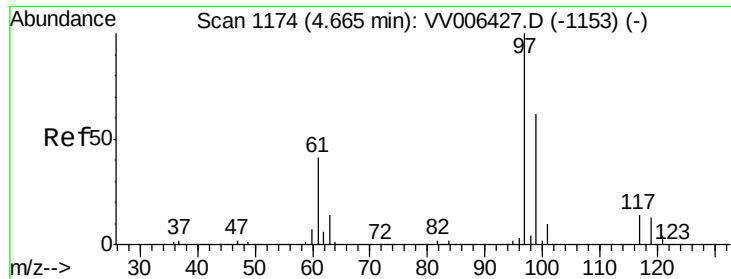
Tgt Ion: 63 Resp: 57705
 Ion Ratio Lower Upper
 63 100
 65 31.6 22.2 41.2
 83 13.7 9.2 17.2



#25
 Chloroform
 Concen: 5.830 ug/L
 RT: 4.43 min Scan# 1102
 Delta R.T. -0.00 min
 Lab File: VV006432.D
 Acq: 25 Jun 2018 15:49

Tgt Ion: 83 Resp: 233194
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.6 84.6

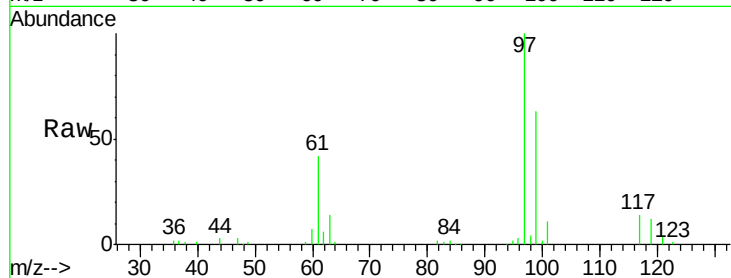




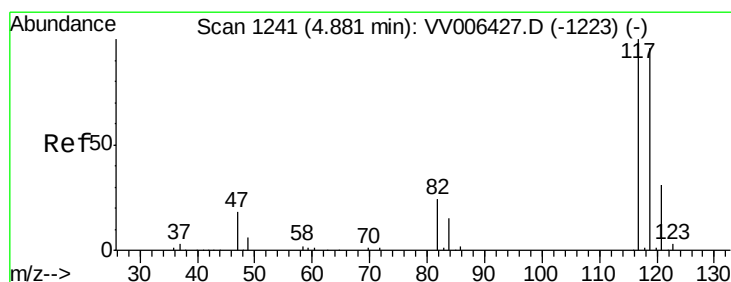
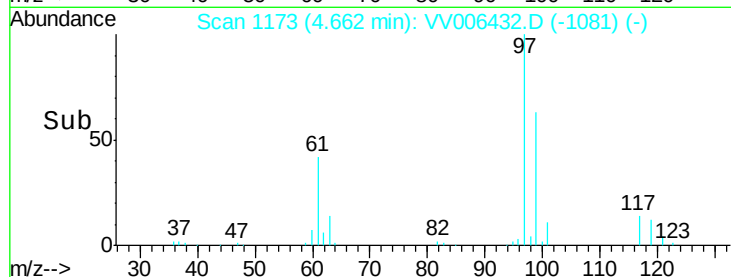
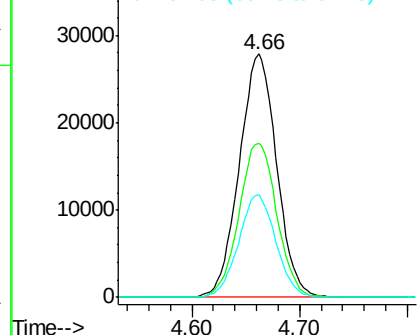
#29
 1,1,1-Trichloroethane
 Concen: 1.998 ug/L
 RT: 4.66 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VV006432.D
 Acq: 25 Jun 2018 15:49

Instrument :
 MSVOA_V
 ClientSampleId :
 DAZ55

Tgt Ion: 97 Resp: 67260
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.0 76.4
 61 41.8 33.8 50.6

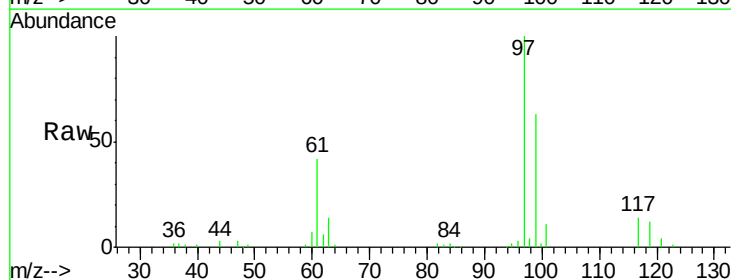


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

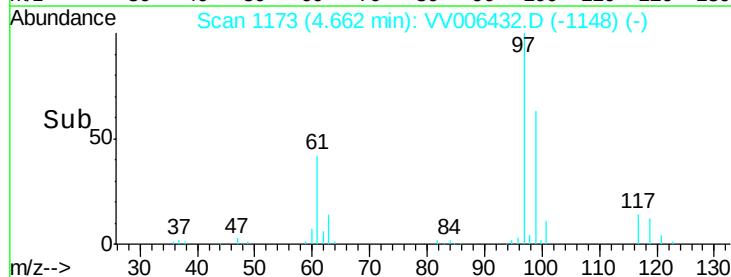
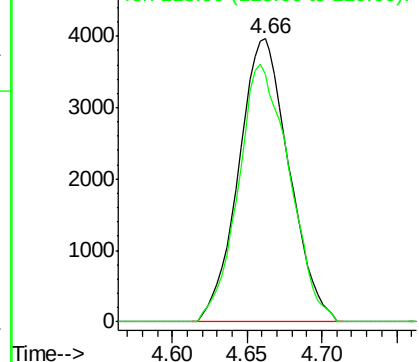


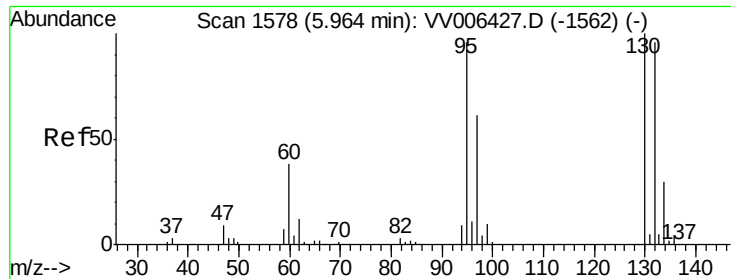
#31
 Carbon tetrachloride
 Concen: 0.330 ug/L
 RT: 4.66 min Scan# 1173
 Delta R.T. -0.22 min
 Lab File: VV006432.D
 Acq: 25 Jun 2018 15:49

Tgt Ion: 117 Resp: 9307
 Ion Ratio Lower Upper
 117 100
 119 92.2 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V

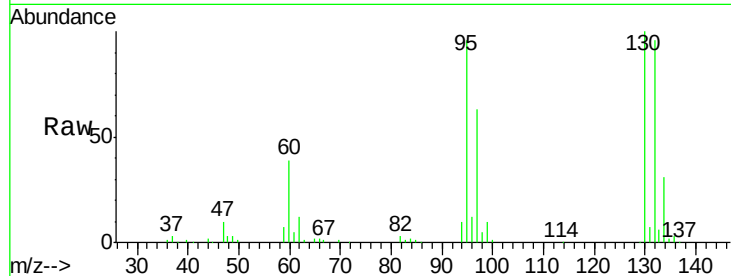




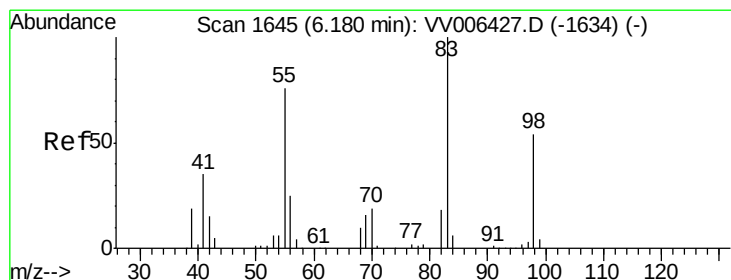
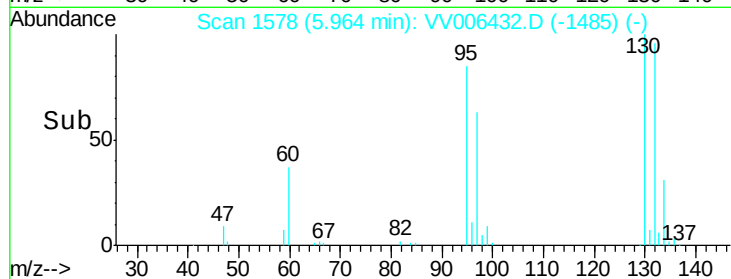
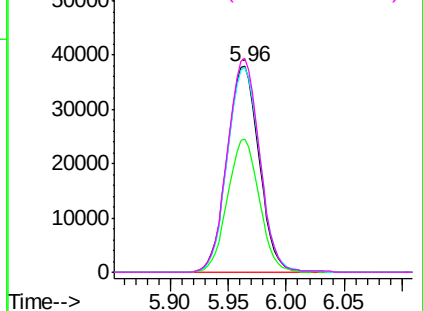
#34
 Trichloroethene
 Concen: 2.778 ug/L
 RT: 5.96 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VV006432.D
 Acq: 25 Jun 2018 15:49

Instrument :
 MSVOA_V
 ClientSampleId :
 DAZ55

Tgt Ion: 95 Resp: 72440
 Ion Ratio Lower Upper
 95 100
 97 64.9 44.6 82.8
 132 99.3 70.1 130.1
 130 103.8 73.3 136.1

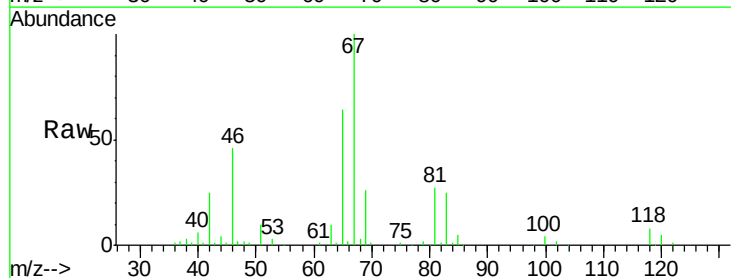


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

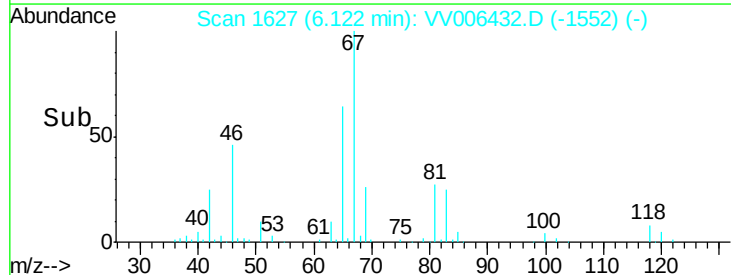
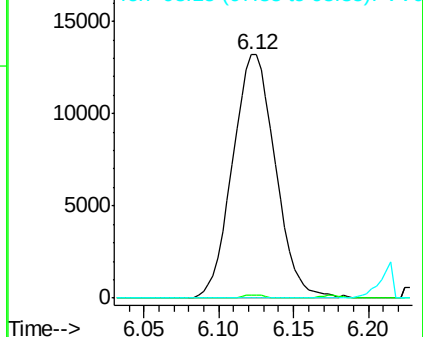


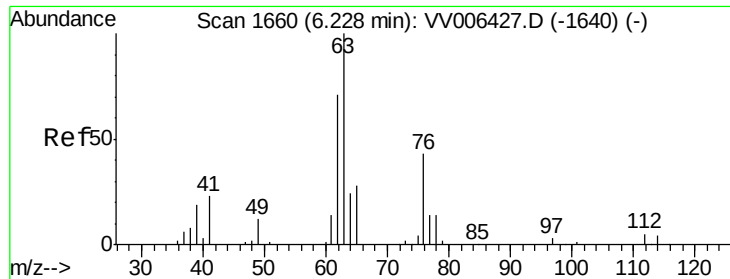
#35
 Methylcyclohexane
 Concen: 0.694 ug/L
 RT: 6.12 min Scan# 1627
 Delta R.T. -0.06 min
 Lab File: VV006432.D
 Acq: 25 Jun 2018 15:49

Tgt Ion: 83 Resp: 26298
 Ion Ratio Lower Upper
 83 100
 55 0.6 57.5 86.3#
 98 0.0 39.6 59.4#



Abundance Ion 83.15 (82.85 to 83.85): VV0
 Ion 55.10 (54.80 to 55.80): VV0
 Ion 98.15 (97.85 to 98.85): VV0

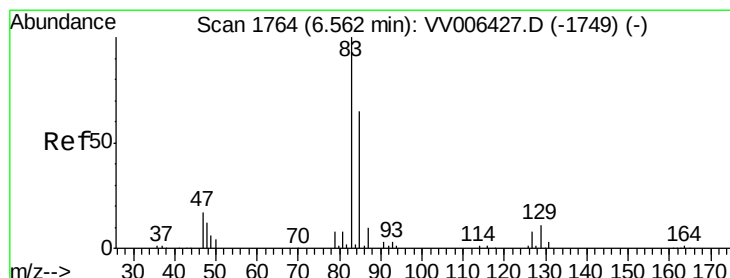
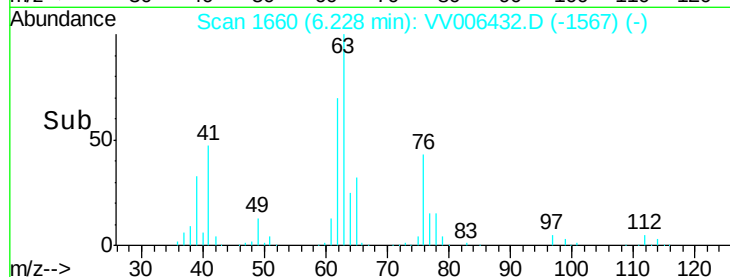
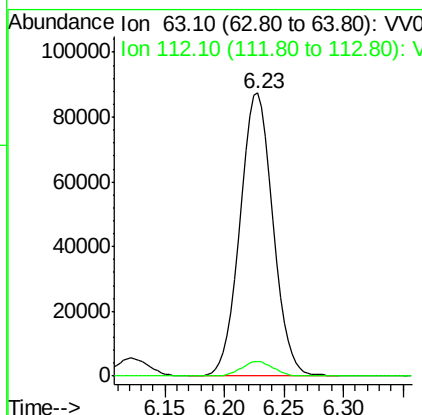
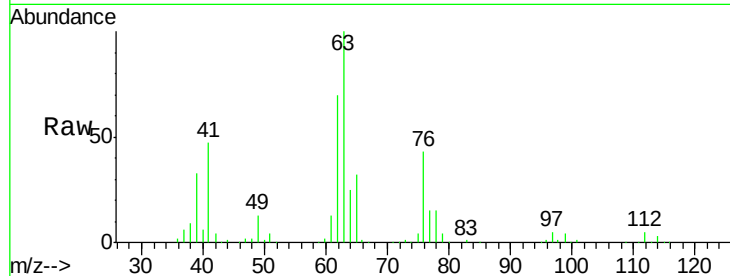




#37
 1,2-Dichloropropane
 Concen: 7.554 ug/L
 RT: 6.23 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VV006432.D
 Acq: 25 Jun 2018 15:49

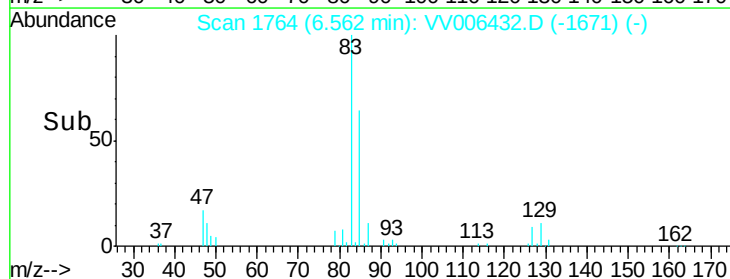
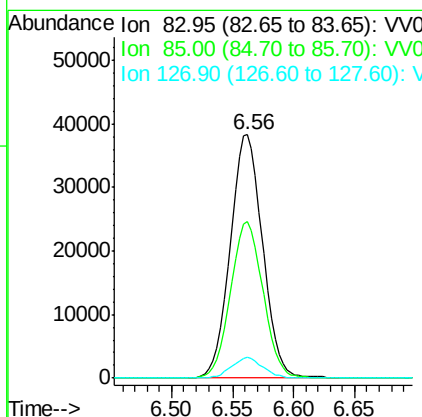
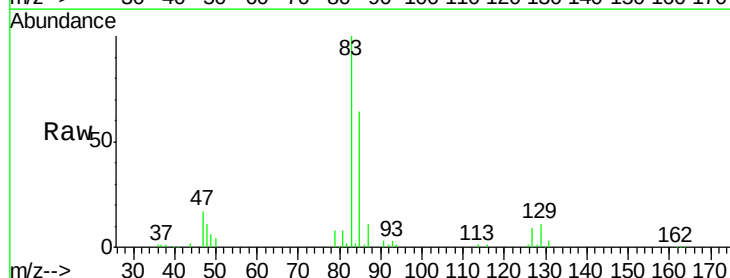
Instrument :
 MSVOA_V
 ClientSampleId :
 DAZ55

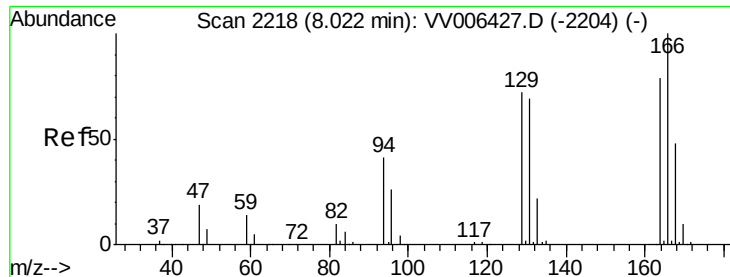
Tgt Ion: 63 Resp: 168259
 Ion Ratio Lower Upper
 63 100
 112 5.1 4.0 6.0



#38
 Bromodichloromethane
 Concen: 2.752 ug/L
 RT: 6.56 min Scan# 1764
 Delta R.T. 0.00 min
 Lab File: VV006432.D
 Acq: 25 Jun 2018 15:49

Tgt Ion: 83 Resp: 70562
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.1 83.9
 127 8.6 6.6 9.8

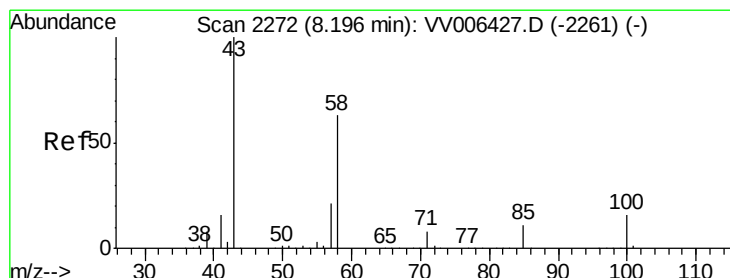
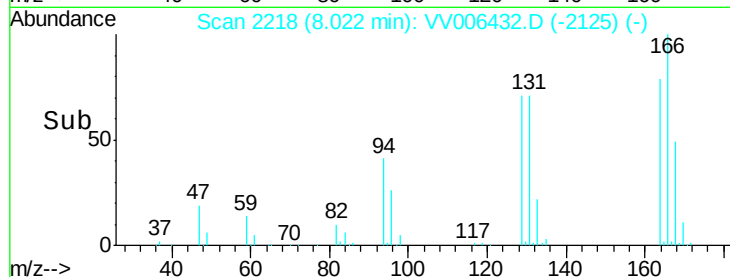
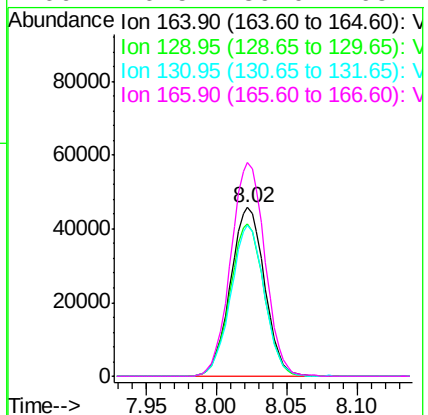
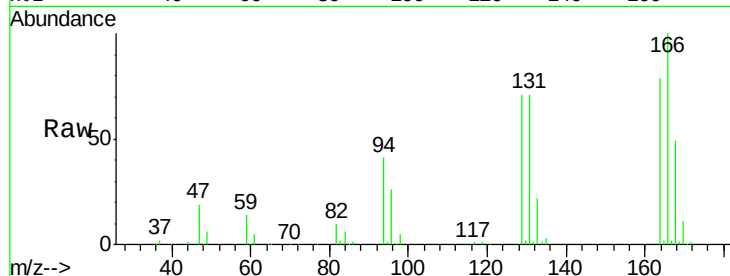




#47
Tetrachloroethene
Concen: 3.935 ug/L
RT: 8.02 min Scan# 2218
Delta R.T. 0.00 min
Lab File: VV006432.D
Acq: 25 Jun 2018 15:49

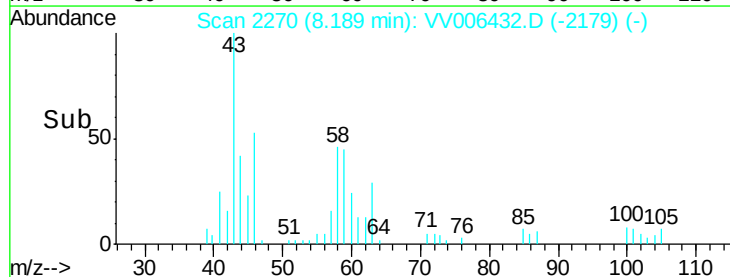
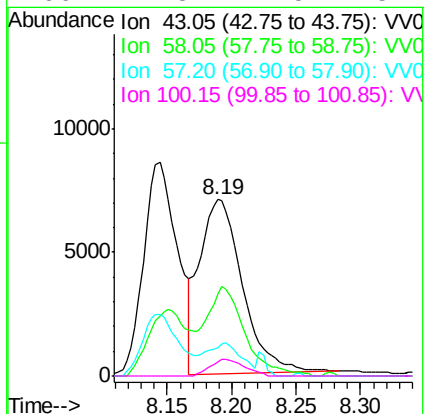
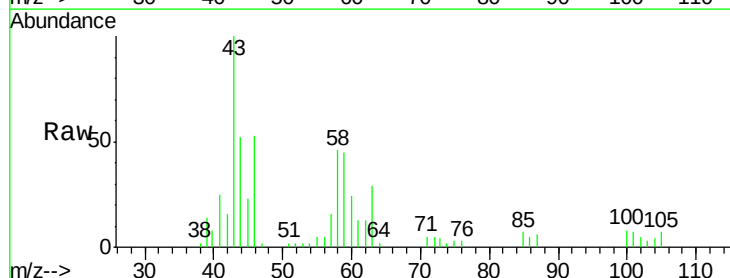
Instrument :
MSVOA_V
ClientSampleId :
DAZ55

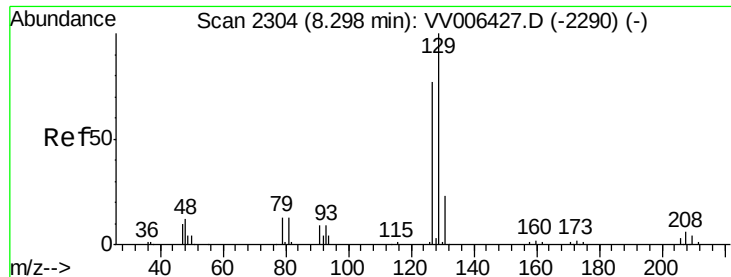
Tgt Ion:164 Resp: 77512
Ion Ratio Lower Upper
164 100
129 90.3 64.0 118.8
131 89.4 61.7 114.5
166 126.5 89.0 165.2



#48
2-Hexanone
Concen: 2.086 ug/L
RT: 8.19 min Scan# 2270
Delta R.T. -0.01 min
Lab File: VV006432.D
Acq: 25 Jun 2018 15:49

Tgt Ion: 43 Resp: 16269
Ion Ratio Lower Upper
43 100
58 45.3 49.9 74.9#
57 15.4 17.3 25.9#
100 7.8 12.5 18.7#





#49

Dibromochloromethane

Concen: 9.212 ug/L

RT: 8.30 min Scan# 2303

Delta R.T. -0.00 min

Lab File: VV006432.D

Acq: 25 Jun 2018 15:49

Instrument :

MSVOA_V

ClientSampleId :

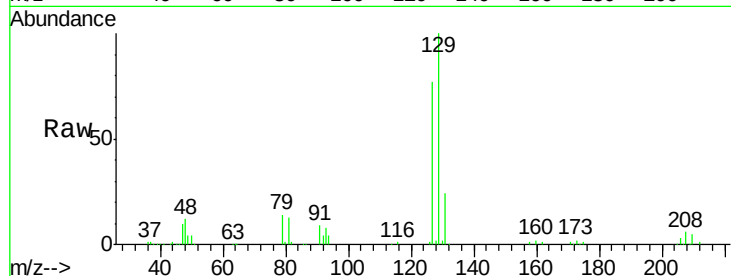
DAZ55

Tgt Ion:129 Resp: 151079

Ion Ratio Lower Upper

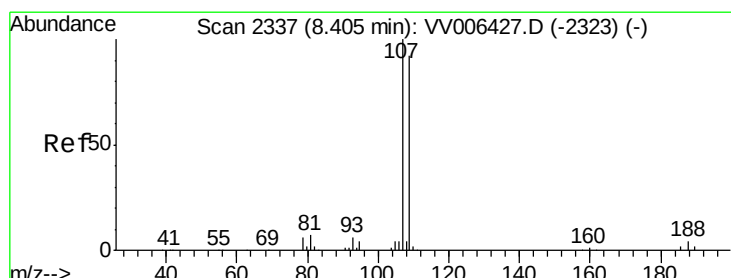
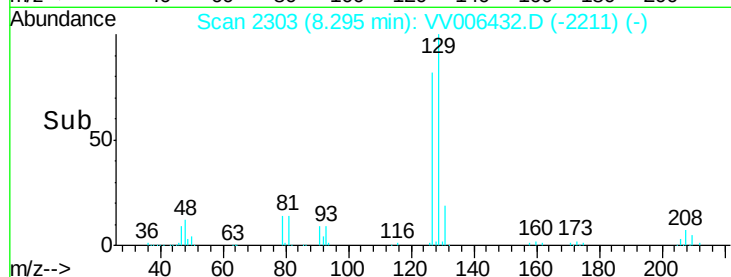
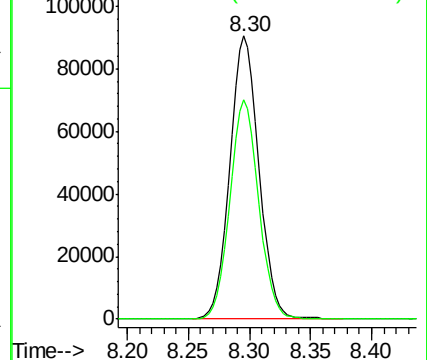
129 100

127 77.4 54.0 100.2



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#50

1,2-Dibromoethane

Concen: 6.000 ug/L

RT: 8.40 min Scan# 2336

Delta R.T. -0.00 min

Lab File: VV006432.D

Acq: 25 Jun 2018 15:49

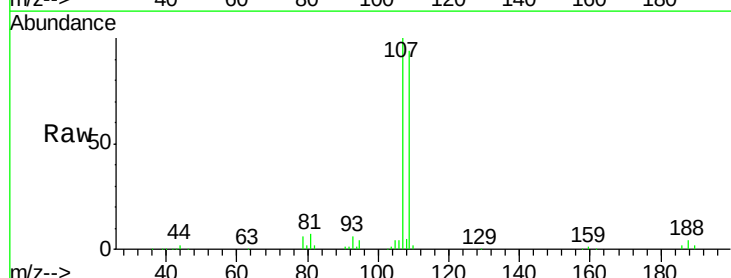
Tgt Ion:107 Resp: 82983

Ion Ratio Lower Upper

107 100

109 94.0 64.3 119.5

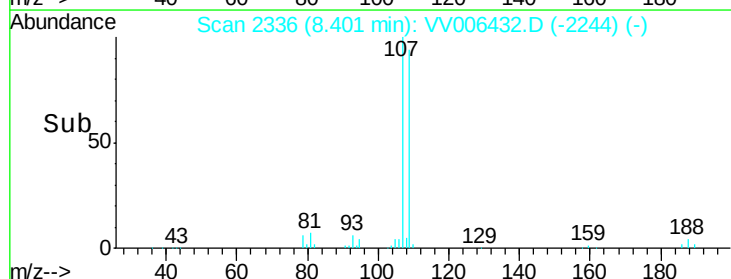
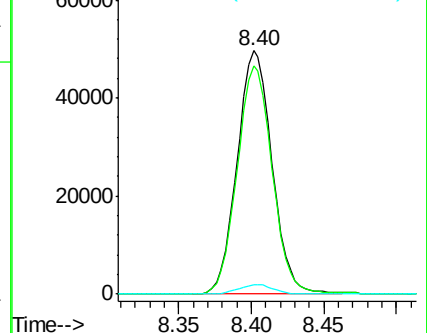
188 3.9 3.0 4.6

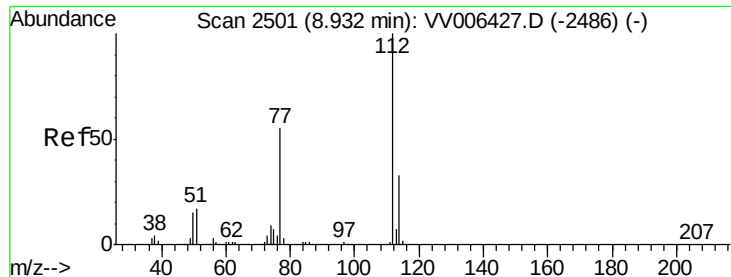


Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V

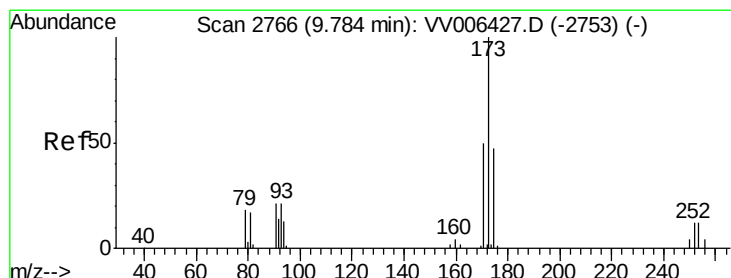
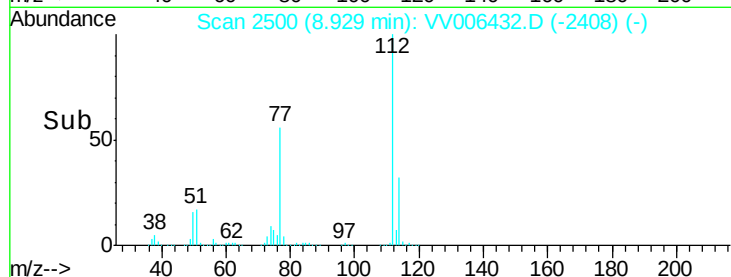
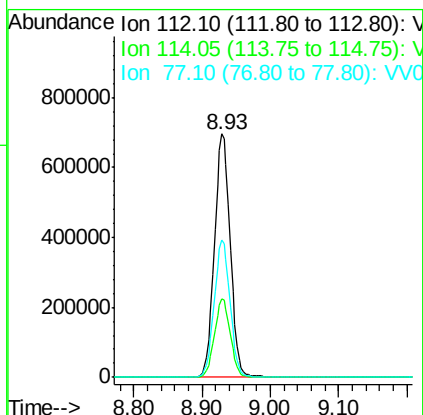
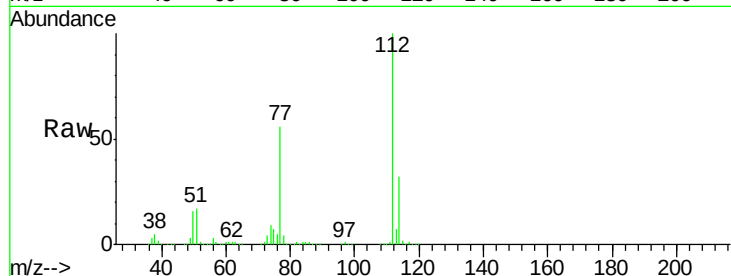




#51
Chlorobenzene
Concen: 17.567 ug/L
RT: 8.93 min Scan# 2500
Delta R.T. -0.00 min
Lab File: VV006432.D
Acq: 25 Jun 2018 15:49

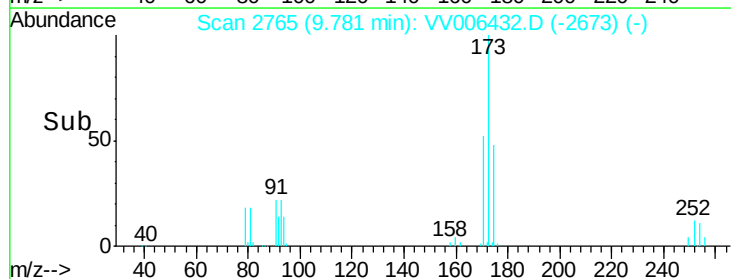
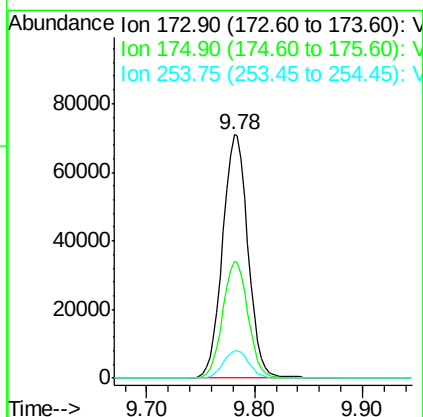
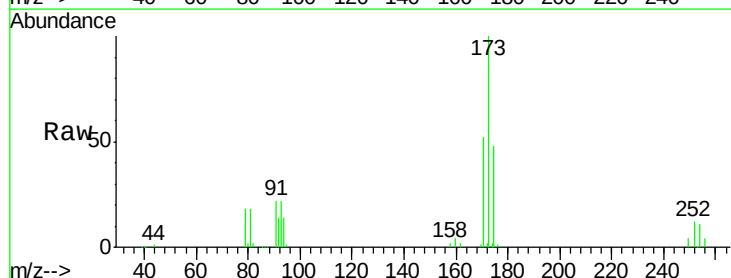
Instrument :
MSVOA_V
ClientSampleId :
DAZ55

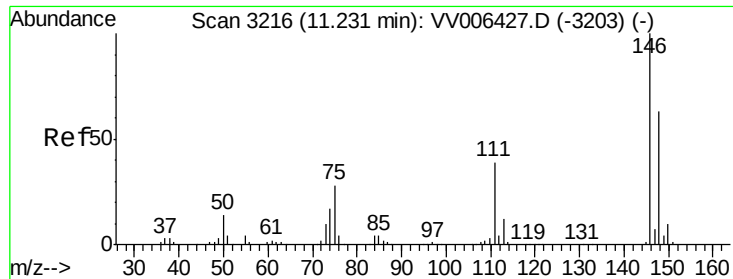
Tgt Ion:112 Resp: 1122002
Ion Ratio Lower Upper
112 100
114 32.1 22.8 42.4
77 56.3 44.6 66.8



#61
Bromoform
Concen: 14.996 ug/L
RT: 9.78 min Scan# 2765
Delta R.T. -0.00 min
Lab File: VV006432.D
Acq: 25 Jun 2018 15:49

Tgt Ion:173 Resp: 116335
Ion Ratio Lower Upper
173 100
175 47.8 38.8 58.2
254 11.3 9.0 13.6





#62

1,3-Dichlorobenzene

Concen: 7.835 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. 0.09 min

Lab File: VV006432.D

Acq: 25 Jun 2018 15:49

Instrument :

MSVOA_V

ClientSampleId :

DAZ55

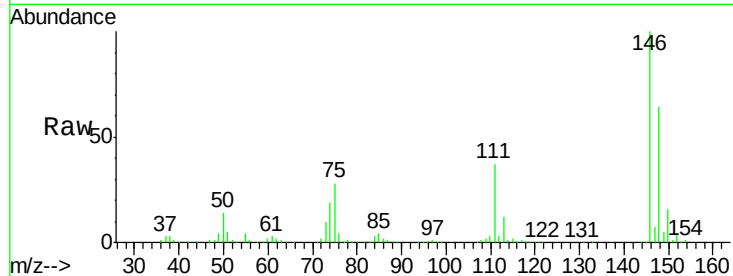
Tgt Ion:146 Resp: 356729

Ion Ratio Lower Upper

146 100

111 37.1 27.4 51.0

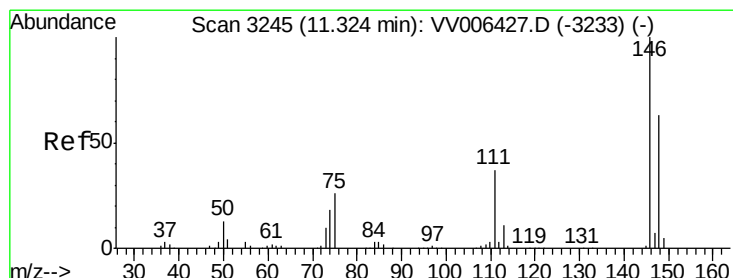
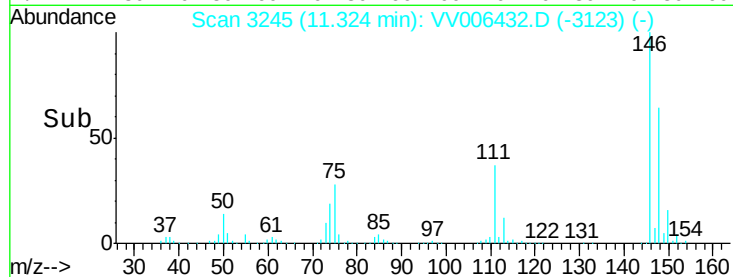
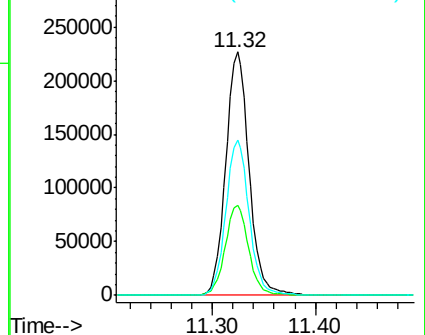
148 63.7 44.1 81.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 7.833 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. 0.00 min

Lab File: VV006432.D

Acq: 25 Jun 2018 15:49

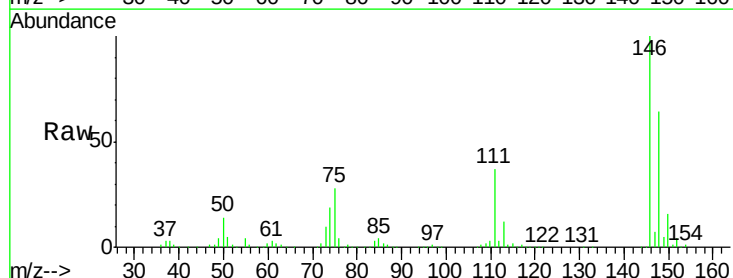
Tgt Ion:146 Resp: 356729

Ion Ratio Lower Upper

146 100

111 37.1 26.3 48.9

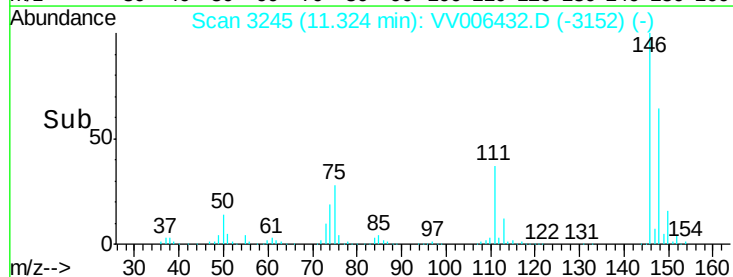
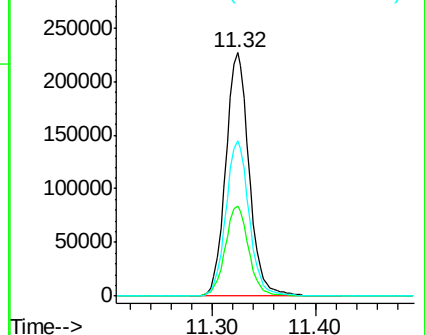
148 63.7 44.0 81.6

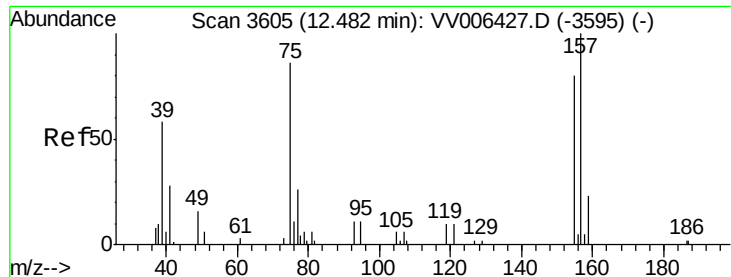


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dibromo-3-chloropropane

Concen: 9.255 ug/L

RT: 12.48 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VV006432.D

Acq: 25 Jun 2018 15:49

Instrument :

MSVOA_V

ClientSampleId :

DAZ55

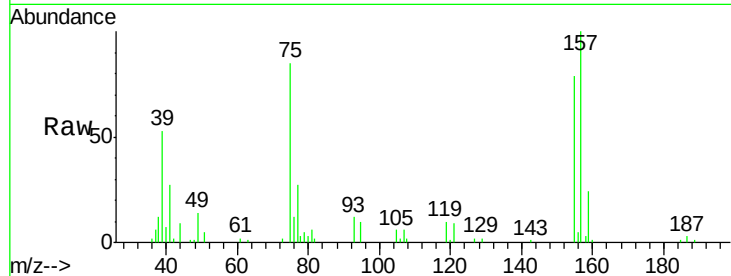
Tgt Ion: 75 Resp: 16759

Ion Ratio Lower Upper

75 100

155 92.9 73.9 110.9

157 117.5 92.9 139.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

