

Data File : VR025853.D
Acq On : 25 Sep 2018 18:34
Operator : SY/MD
Sample : J5011-11
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
BE9G1

Quant Time: Sep 26 06:57:58 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR092118WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Sep 26 06:56:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	392574	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.28	117	311630	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	100272	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.17	65	131820	4.69	ug/L	0.01
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.80%
7) Chloroethane-d5	2.62	69	110140	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.80%
11) 1,1-Dichloroethene-d2	3.65	63	1071941	15.76	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	315.20%#
20) 2-Butanone-d5	6.60	46	190420	50.81	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.62%
24) Chloroform-d	7.20	84	256119	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.80%
26) 1,2-Dichloroethane-d4	7.90	65	113104	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.00%
32) Benzene-d6	7.85	84	517288	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
36) 1,2-Dichloropropane-d6	8.90	67	144394	4.58	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.60%
41) Toluene-d8	9.97	98	437920	4.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.20%
43) trans-1,3-Dichloropropene-	10.24	79	35174	4.03	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.60%
46) 2-Hexanone-d5	10.59	63	139553	47.86	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.72%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	55252	4.60	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.00%
64) 1,2-Dichlorobenzene-d4	13.51	152	76841	4.48	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.60%

Target Compounds

						Qvalue
5) Vinyl chloride	2.17	62	1756027	41.649	ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	209271	6.569	ug/L	98
12) 1,1-Dichloroethene	3.65	96	1417556	41.859	ug/L #	58
13) Acetone	3.70	43	21252	8.594	ug/L	77
18) trans-1,2-Dichloroethene	4.89	96	53915	1.407	ug/L	94
19) 1,1-Dichloroethane	5.69	63	4849629	61.910	ug/L	95
22) cis-1,2-Dichloroethene	6.67	96	14118963	365.865	ug/L #	68
25) Chloroform	7.23	83	120020	1.666	ug/L	98
27) 1,2-Dichloroethane	7.99	62	16892	0.454	ug/L	97
29) 1,1,1-Trichloroethane	7.43	97	16216176	257.637	ug/L	94
30) Cyclohexane	7.53	56	25010	0.333	ug/L #	37
31) Carbon tetrachloride	7.43	117	2337752	45.142	ug/L	99
33) Benzene	7.91	78	185018	1.131	ug/L	100
34) Trichloroethene	8.73	95	21099316	485.935	ug/L #	68
35) Methylcyclohexane	8.95	83	14781	0.208	ug/L #	71
37) 1,2-Dichloropropane	8.90	63	17208	0.472	ug/L #	93
42) Toluene	10.04	91	108345	0.650	ug/L	97

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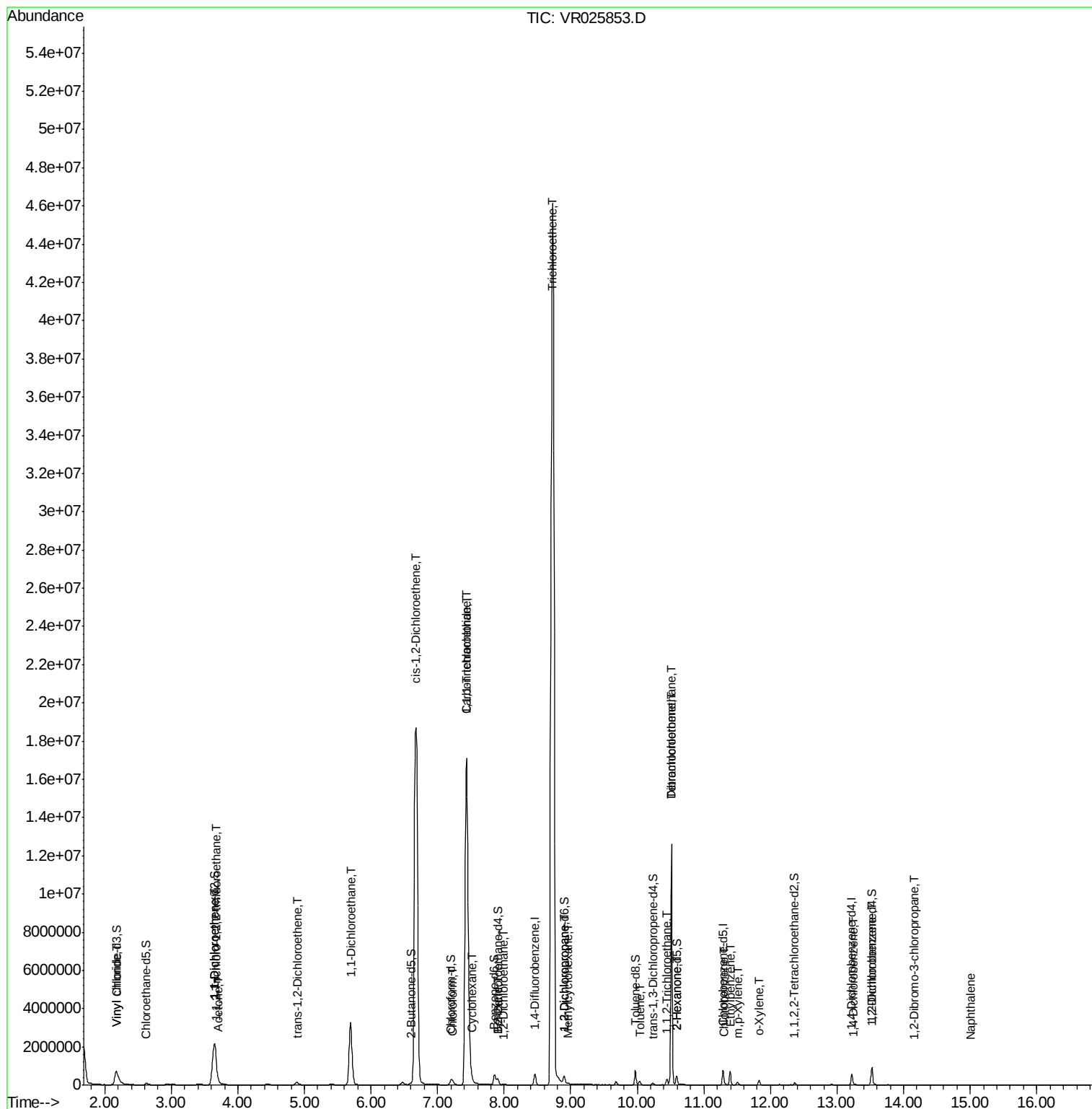
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	10.45	97	77035	5.038	ug/L	91
47) Tetrachloroethene	10.51	164	2209393	88.970	ug/L	90
48) 2-Hexanone	10.59	43	21397	2.562	ug/L #	70
49) Dibromochloromethane	10.51	129	1946448	122.176	ug/L #	11
51) Chlorobenzene	11.32	112	30248	0.346	ug/L	98
52) Ethylbenzene	11.39	91	425686	2.219	ug/L	100
53) m,p-Xylene	11.51	106	36272	0.524	ug/L	84
54) o-Xylene	11.83	106	55976	0.884	ug/L	98
63) 1,4-Dichlorobenzene	13.24	146	13270	0.296	ug/L	86
65) 1,2-Dichlorobenzene	13.53	146	234105	6.627	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.16	75	301	0.186	ug/L #	24
69) Naphthalene	15.00	128	6990	0.288	ug/L #	93

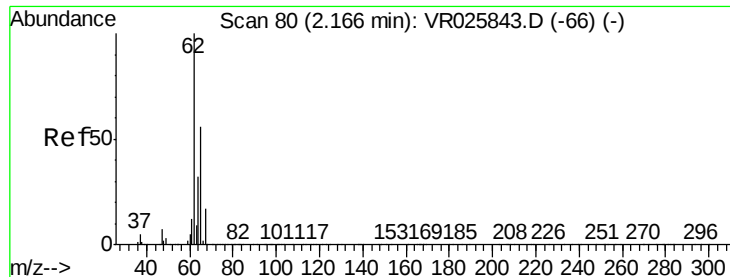
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 41.649 ug/L

RT: 2.17 min Scan# 81

Delta R.T. 0.01 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Instrument :

MSVOA_R

ClientSampleId :

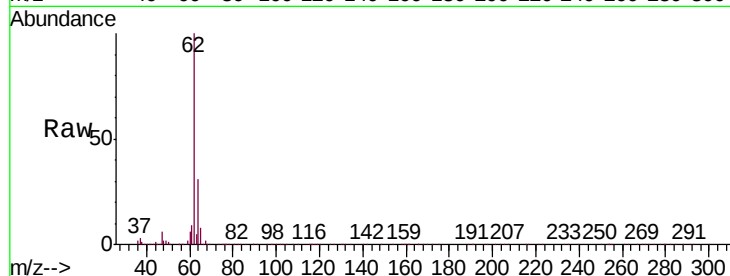
BE9G1

Tgt Ion: 62 Resp: 1756027

Ion Ratio Lower Upper

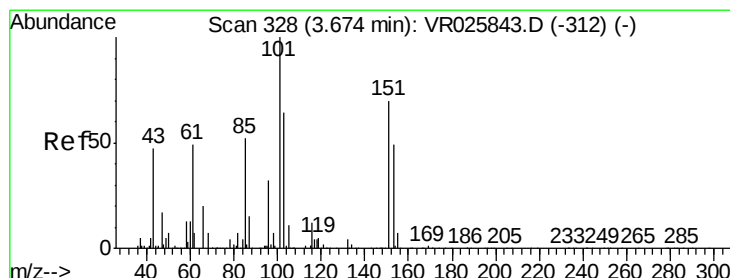
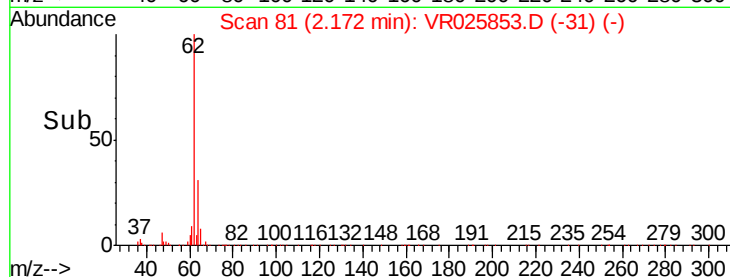
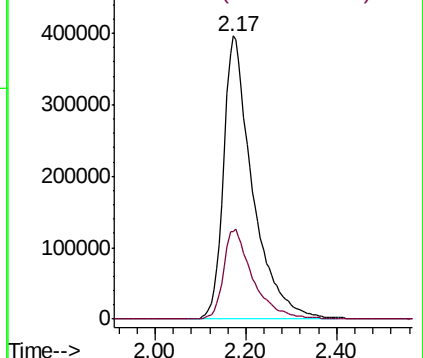
62 100

64 31.0 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 64.10 (63.80 to 64.80): VR0



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 6.569 ug/L

RT: 3.69 min Scan# 330

Delta R.T. 0.01 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

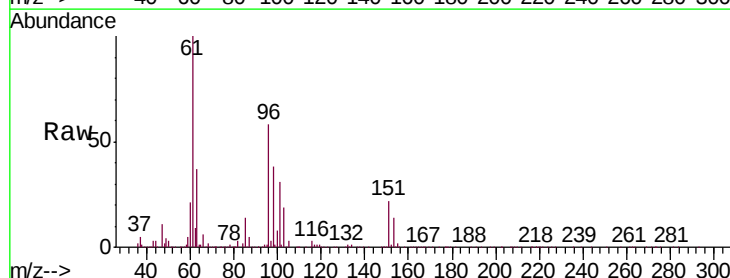
Tgt Ion: 101 Resp: 209271

Ion Ratio Lower Upper

101 100

85 49.0 38.2 57.4

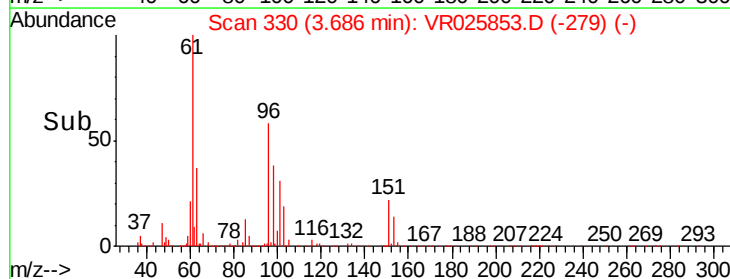
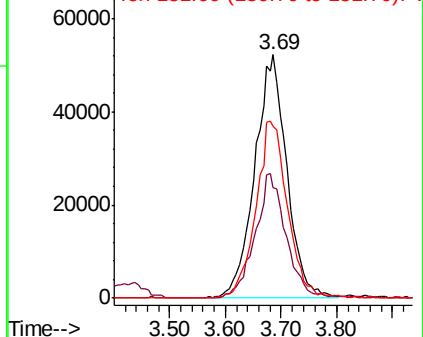
151 71.8 58.4 87.6

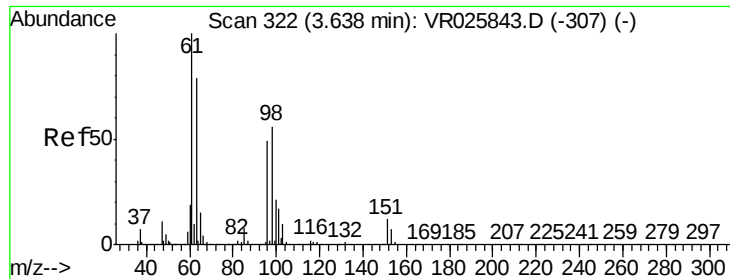


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 41.859 ug/L

RT: 3.65 min Scan# 324

Delta R.T. 0.01 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Instrument :

MSVOA_R

ClientSampleId :

BE9G1

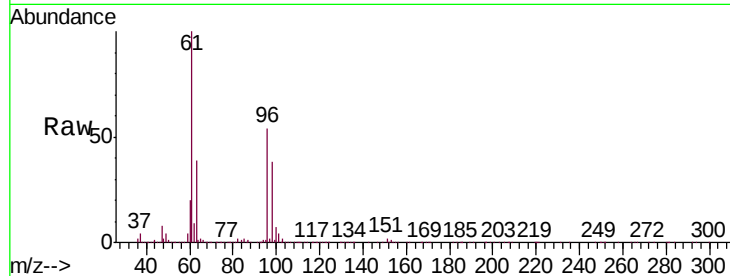
Tgt Ion: 96 Resp: 1417556

Ion Ratio Lower Upper

96 100

61 186.6 145.0 269.4

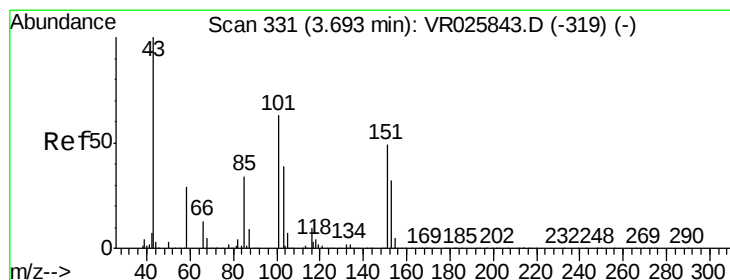
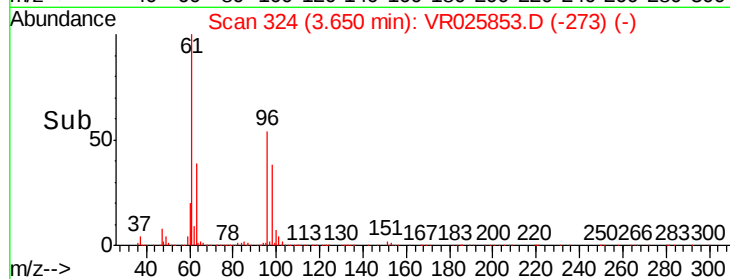
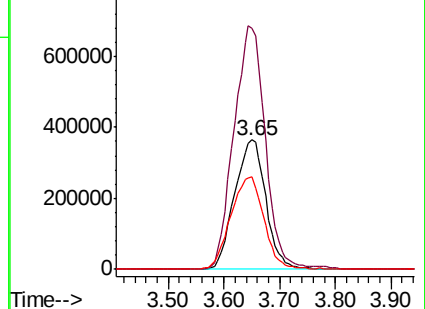
63 71.9 123.8 230.0#



Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0



#13

Acetone

Concen: 8.594 ug/L

RT: 3.70 min Scan# 333

Delta R.T. 0.01 min

Lab File: VR025853.D

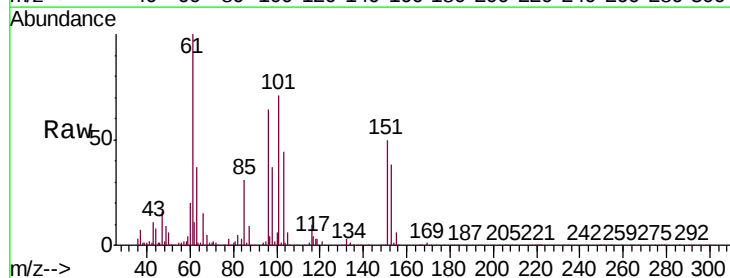
Acq: 25 Sep 2018 18:34

Tgt Ion: 43 Resp: 21252

Ion Ratio Lower Upper

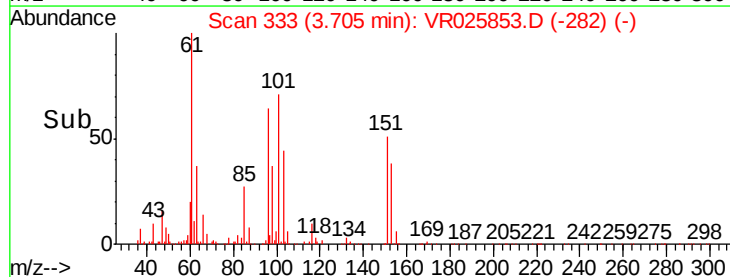
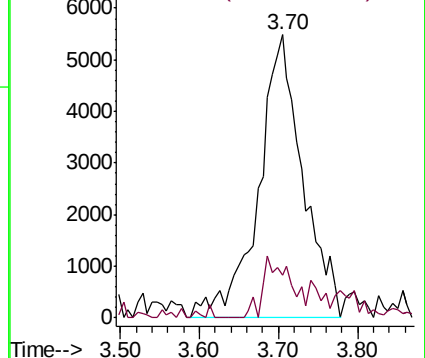
43 100

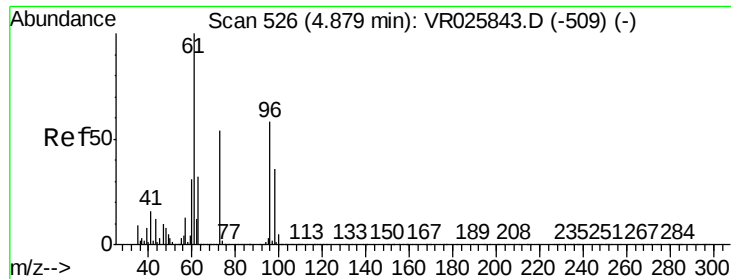
58 13.8 0.0 51.4



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0

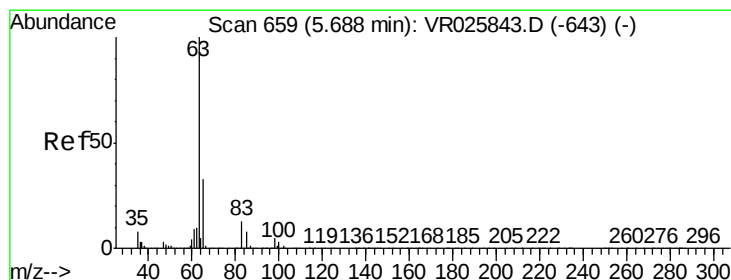
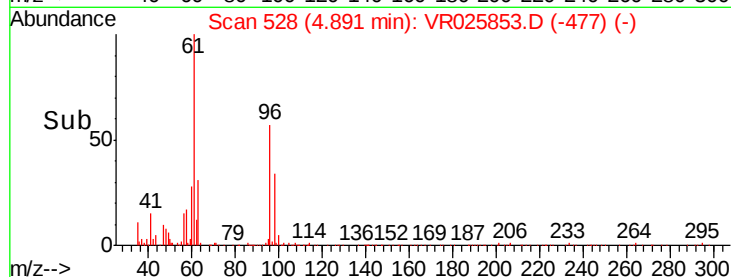
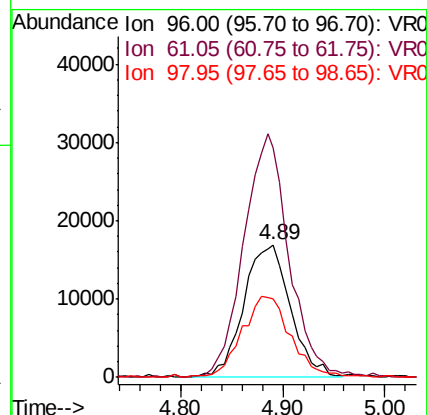
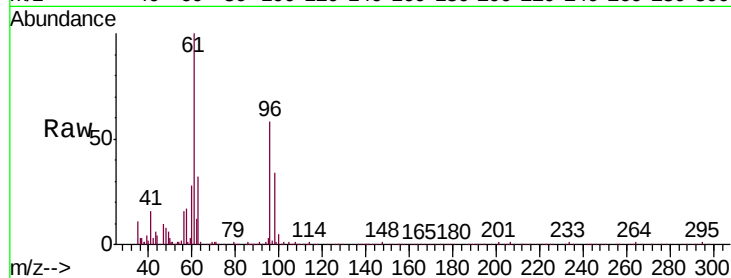




#18
 trans-1,2-Dichloroethene
 Concen: 1.407 ug/L
 RT: 4.89 min Scan# 528
 Delta R.T. 0.01 min
 Lab File: VR025853.D
 Acq: 25 Sep 2018 18:34

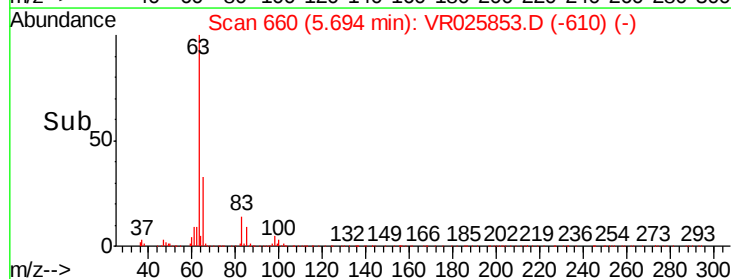
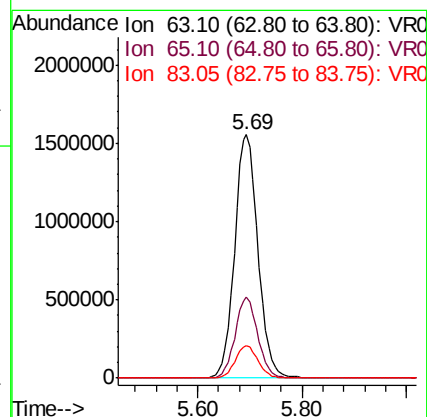
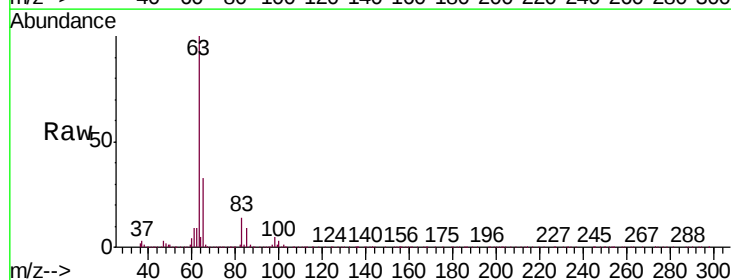
Instrument :
 MSVOA_R
 ClientSampleID :
 BE9G1

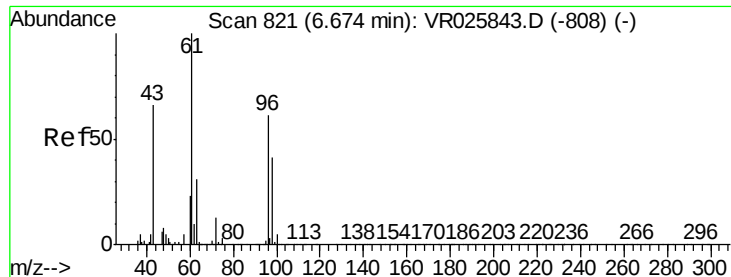
Tgt Ion: 96 Resp: 53915
 Ion Ratio Lower Upper
 96 100
 61 172.5 127.4 236.6
 98 59.2 43.8 81.3



#19
 1,1-Dichloroethane
 Concen: 61.910 ug/L
 RT: 5.69 min Scan# 660
 Delta R.T. 0.01 min
 Lab File: VR025853.D
 Acq: 25 Sep 2018 18:34

Tgt Ion: 63 Resp: 4849629
 Ion Ratio Lower Upper
 63 100
 65 33.3 21.1 39.1
 83 13.5 8.9 16.5



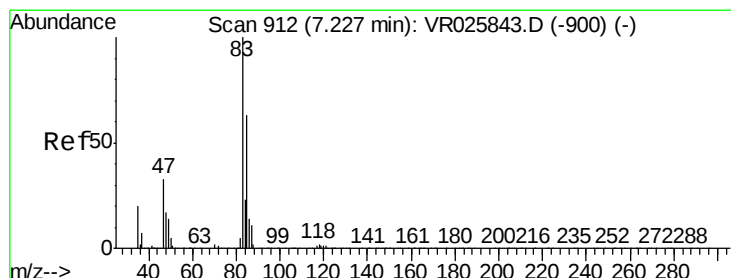
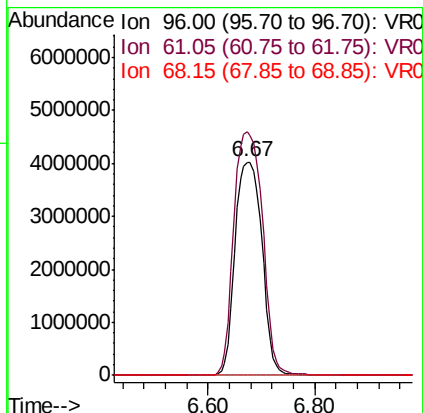
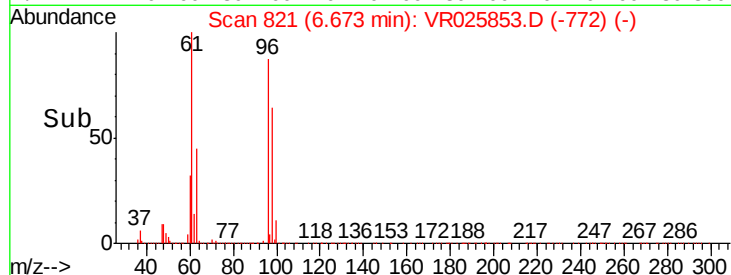
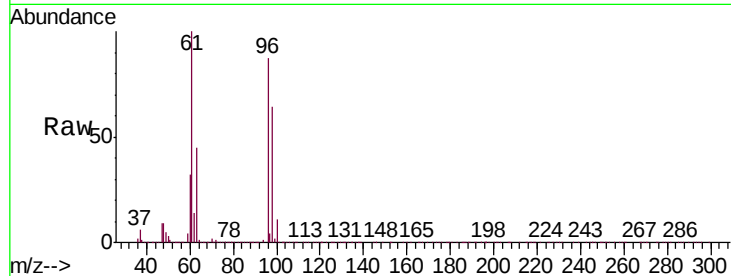


#22

cis-1,2-Dichloroethene
 Concen: 365.865 ug/L
 RT: 6.67 min Scan# 821
 Delta R.T. -0.00 min
 Lab File: VR025853.D
 Acq: 25 Sep 2018 18:34

Instrument :
 MSVOA_R
 ClientSampleId :
 BE9G1

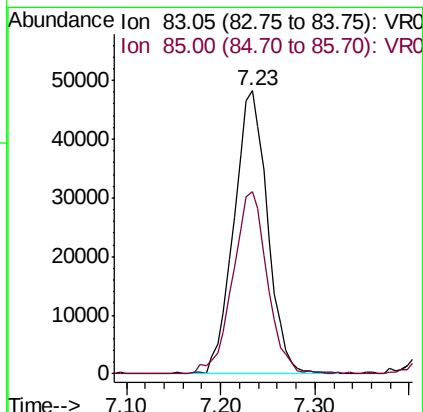
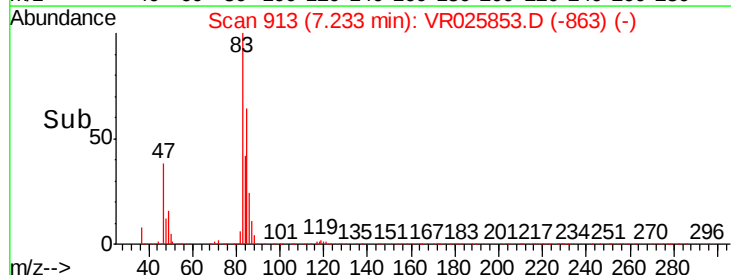
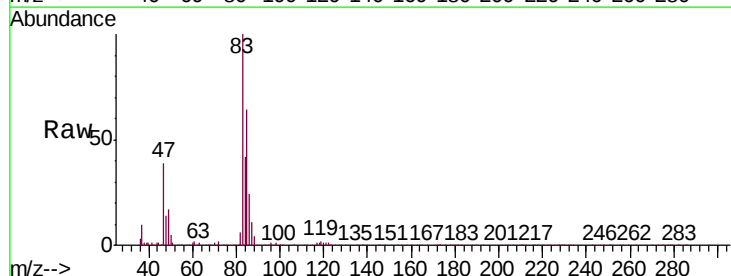
Tgt Ion: 96 Resp:14118963
 Ion Ratio Lower Upper
 96 100
 61 114.3 108.7 201.9
 68 0.0 0.1 0.1#

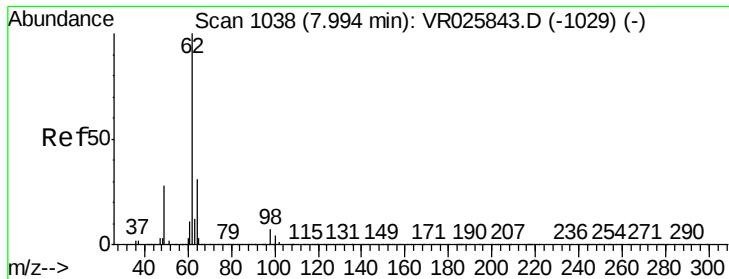


#25

Chloroform
 Concen: 1.666 ug/L
 RT: 7.23 min Scan# 913
 Delta R.T. 0.01 min
 Lab File: VR025853.D
 Acq: 25 Sep 2018 18:34

Tgt Ion: 83 Resp: 120020
 Ion Ratio Lower Upper
 83 100
 85 64.5 43.8 81.4





#27

1,2-Dichloroethane

Concen: 0.454 ug/L

RT: 7.99 min Scan# 1038

Delta R.T. -0.00 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Instrument :

MSVOA_R

ClientSampleId :

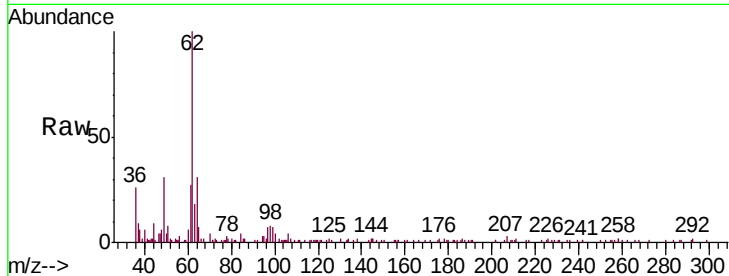
BE9G1

Tgt Ion: 62 Resp: 16892

Ion Ratio Lower Upper

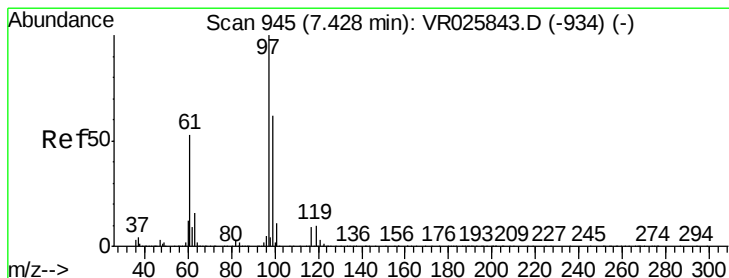
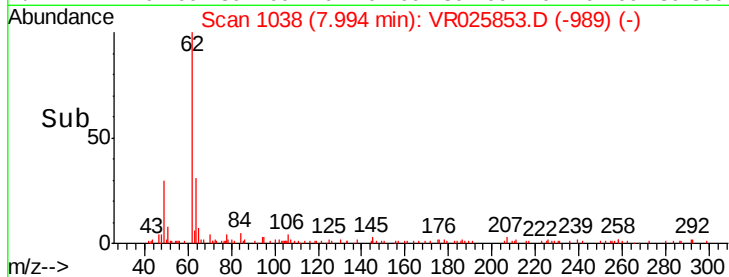
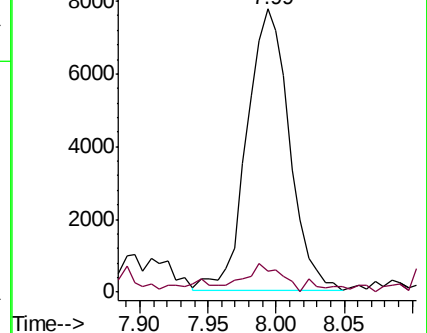
62 100

98 7.6 5.2 7.8



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 98.05 (97.75 to 98.75): VR0



#29

1,1,1-Trichloroethane

Concen: 257.637 ug/L

RT: 7.43 min Scan# 946

Delta R.T. 0.01 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

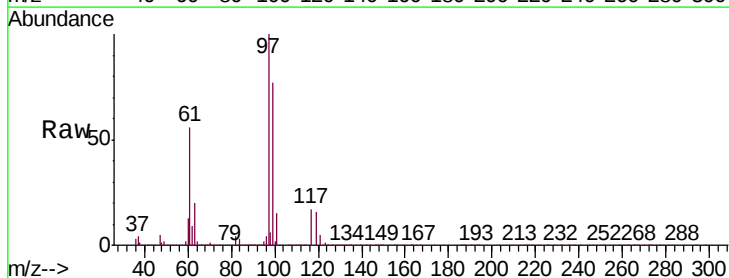
Tgt Ion: 97 Resp: 16216176

Ion Ratio Lower Upper

97 100

99 71.2 51.0 76.6

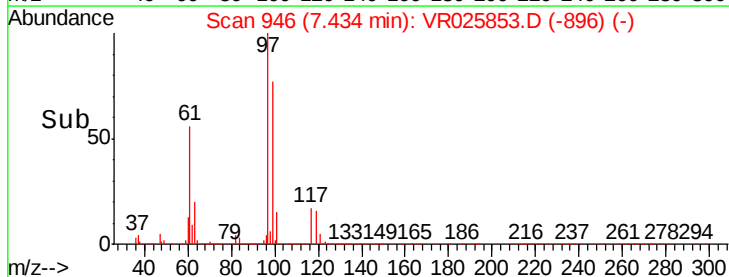
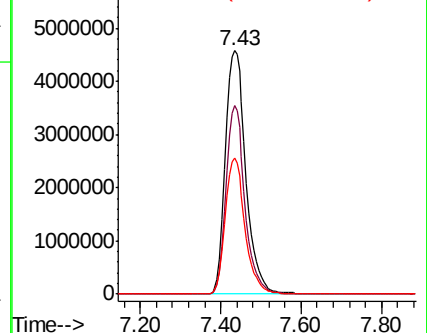
61 53.8 41.6 62.4

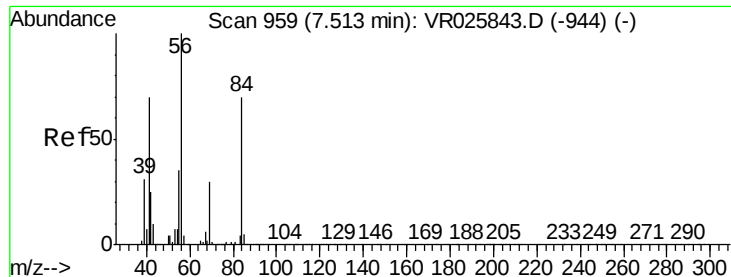


Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 61.05 (60.75 to 61.75): VR0





#30

Cyclohexane

Concen: 0.333 ug/L

RT: 7.53 min Scan# 961

Delta R.T. 0.01 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Instrument :

MSVOA_R

ClientSampled :

BE9G1

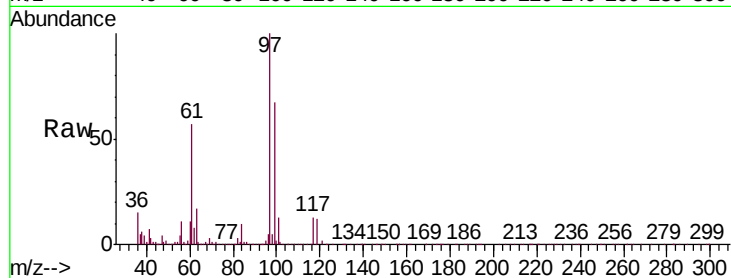
Tgt Ion: 56 Resp: 25010

Ion Ratio Lower Upper

56 100

69 30.2 24.8 37.2

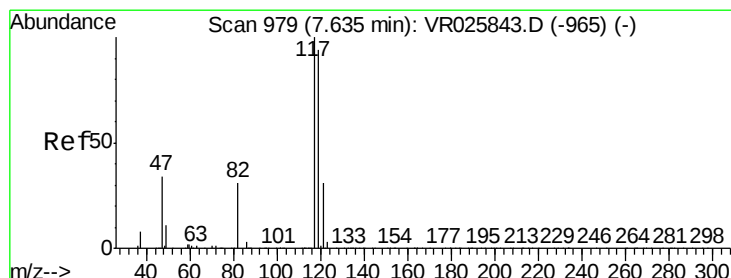
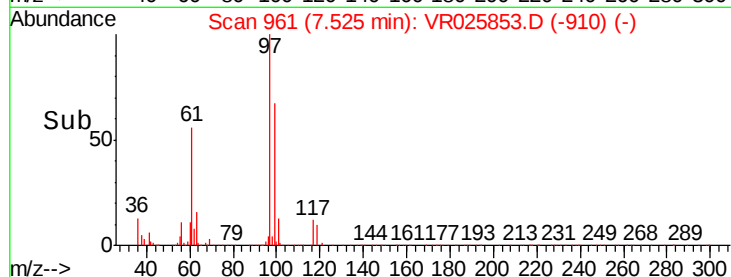
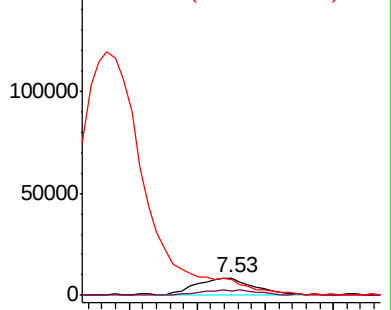
84 0.0 59.8 89.8#



Abundance Ion 56.10 (55.80 to 56.80): VR0

Ion 69.15 (68.85 to 69.85): VR0

Ion 84.15 (83.85 to 84.85): VR0



#31

Carbon tetrachloride

Concen: 45.142 ug/L

RT: 7.43 min Scan# 946

Delta R.T. -0.20 min

Lab File: VR025853.D

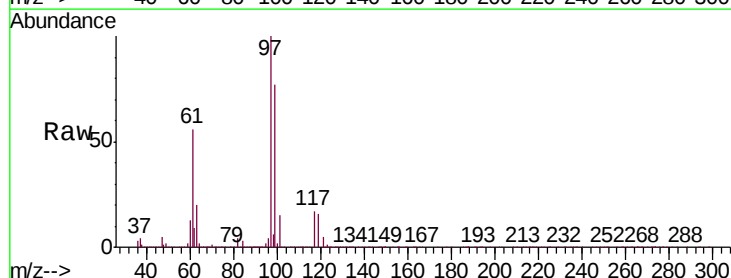
Acq: 25 Sep 2018 18:34

Tgt Ion: 117 Resp: 2337752

Ion Ratio Lower Upper

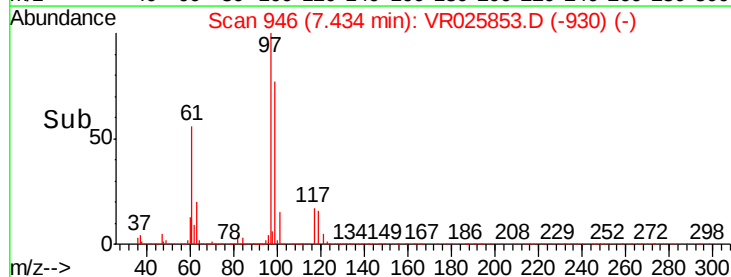
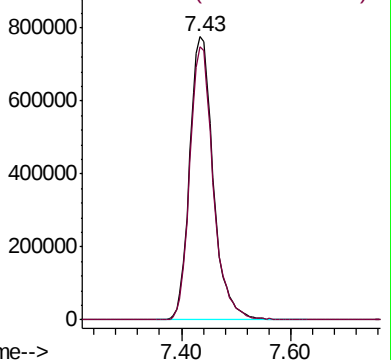
117 100

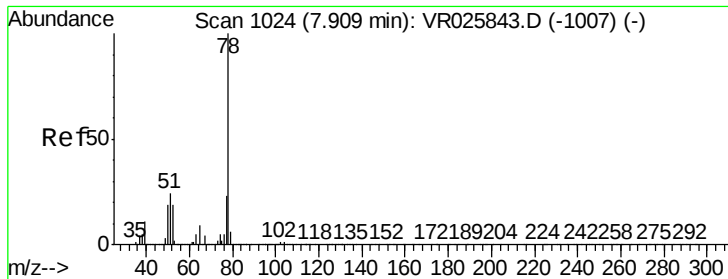
119 95.6 75.6 113.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V





#33

Benzene

Concen: 1.131 ug/L

RT: 7.91 min Scan# 1024

Delta R.T. -0.00 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

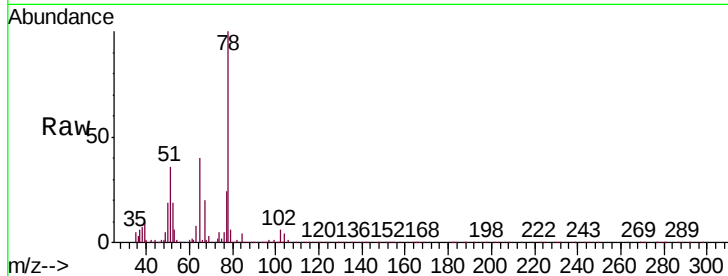
Instrument :

MSVOA_R

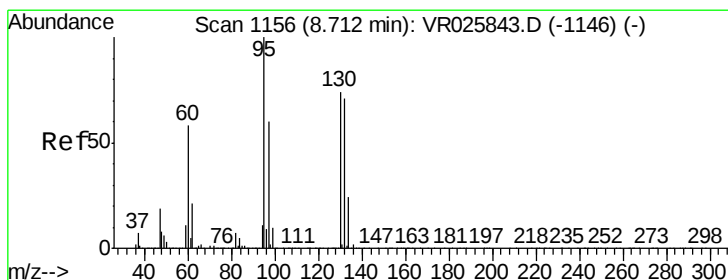
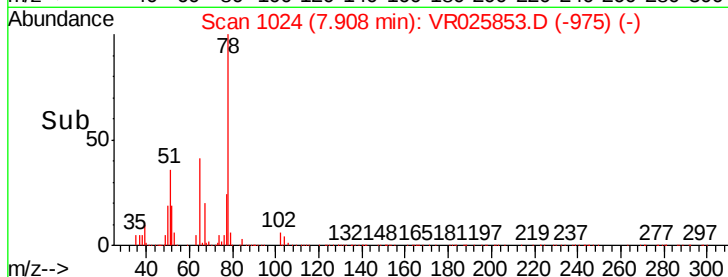
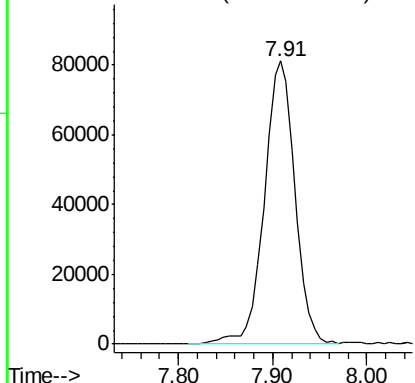
ClientSampleId :

BE9G1

Tgt Ion: 78 Resp: 185018



Abundance Ion 78.10 (77.80 to 78.80): VR0



#34

Trichloroethene

Concen: 485.935 ug/L

RT: 8.73 min Scan# 1159

Delta R.T. 0.02 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Tgt Ion: 95 Resp: 21099316

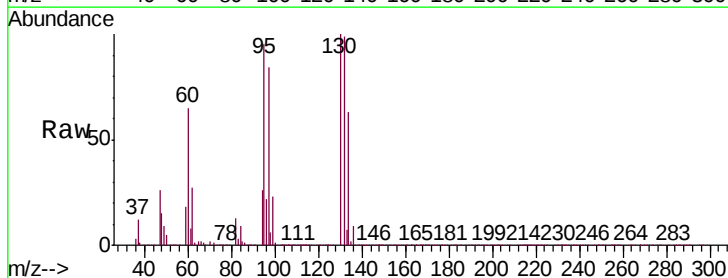
Ion Ratio Lower Upper

95 100

97 87.8 43.9 81.5#

132 103.3 53.3 98.9#

130 104.8 53.8 99.8#

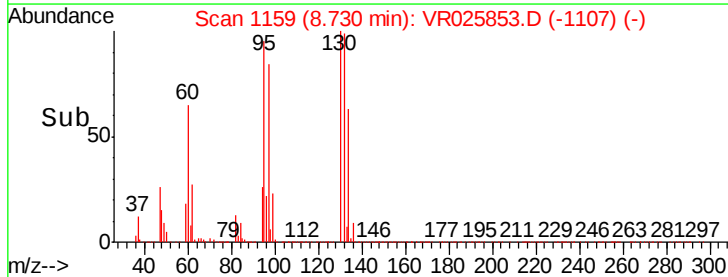
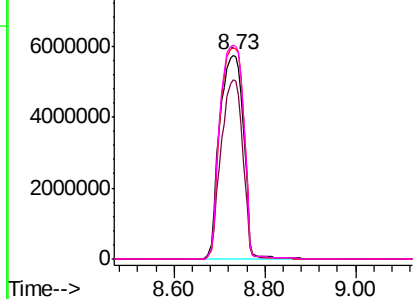


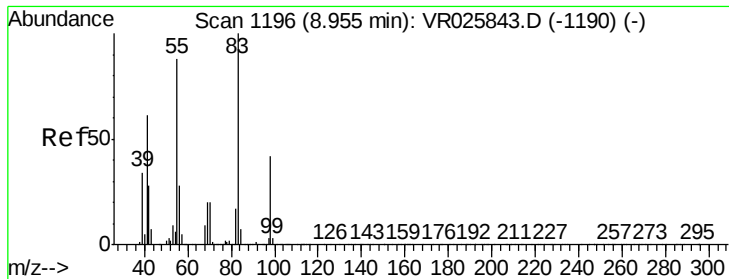
Abundance Ion 95.00 (94.70 to 95.70): VR0

Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

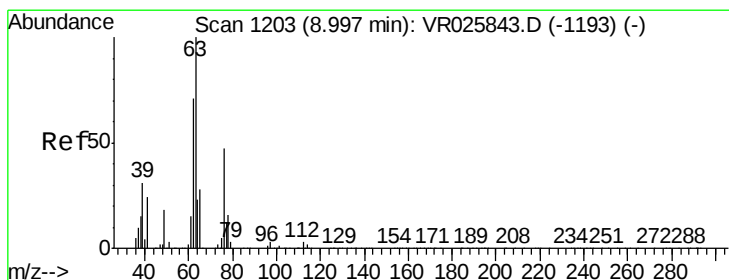
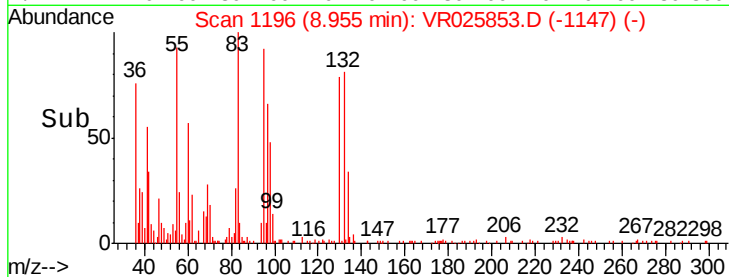
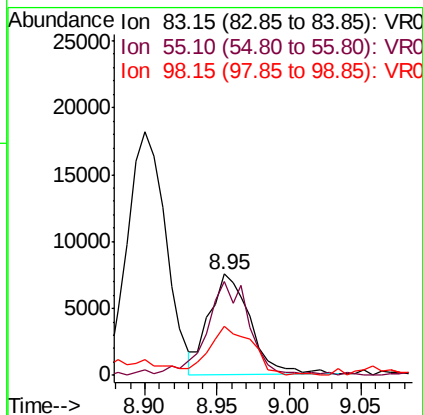
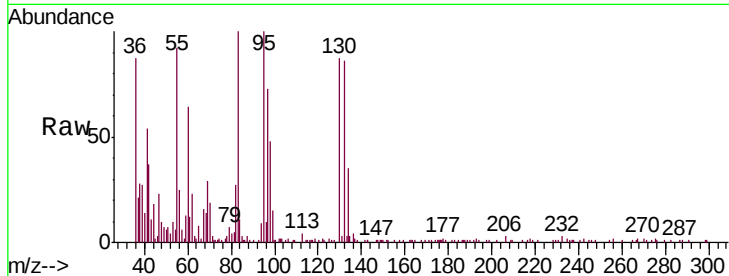




#35
Methylcyclohexane
Concen: 0.208 ug/L
RT: 8.95 min Scan# 1196
Delta R.T. -0.00 min
Lab File: VR025853.D
Acq: 25 Sep 2018 18:34

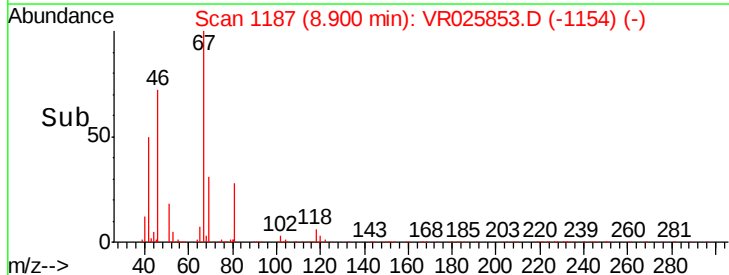
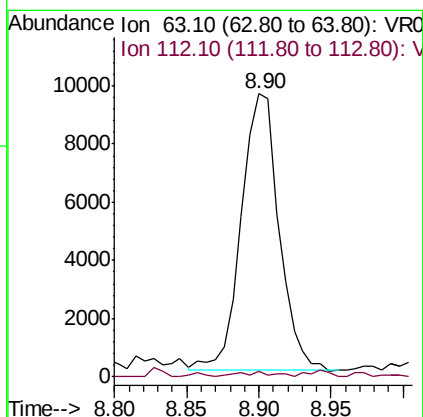
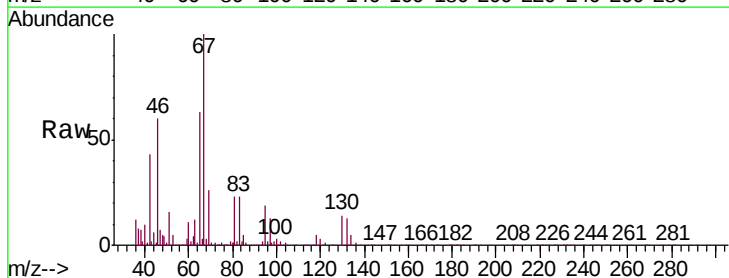
Instrument :
MSVOA_R
ClientSampled :
BE9G1

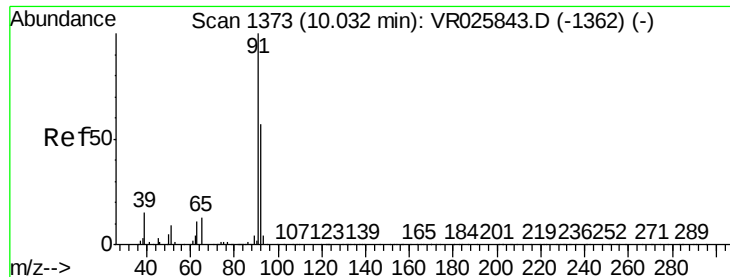
Tgt Ion: 83 Resp: 14781
Ion Ratio Lower Upper
83 100
55 99.3 71.8 107.6
98 0.0 34.2 51.4#



#37
1,2-Dichloropropane
Concen: 0.472 ug/L
RT: 8.90 min Scan# 1187
Delta R.T. -0.10 min
Lab File: VR025853.D
Acq: 25 Sep 2018 18:34

Tgt Ion: 63 Resp: 17208
Ion Ratio Lower Upper
63 100
112 0.9 2.5 3.7#





#42

Toluene

Concen: 0.650 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. 0.01 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Instrument :

MSVOA_R

ClientSampleId :

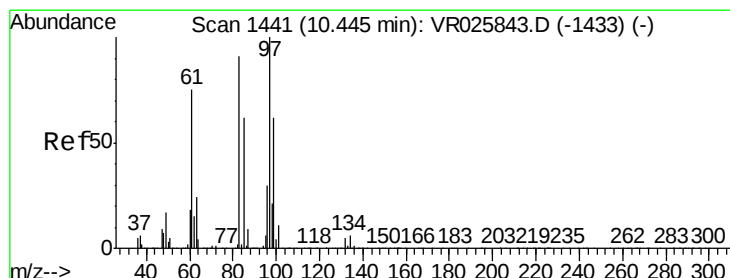
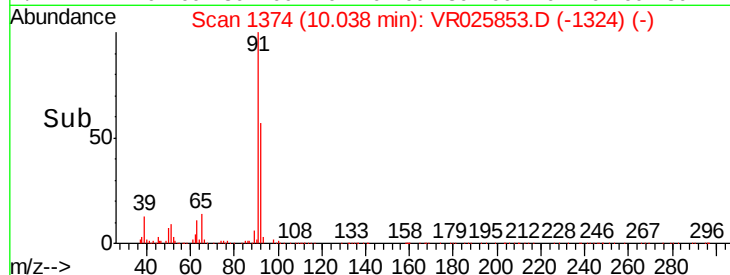
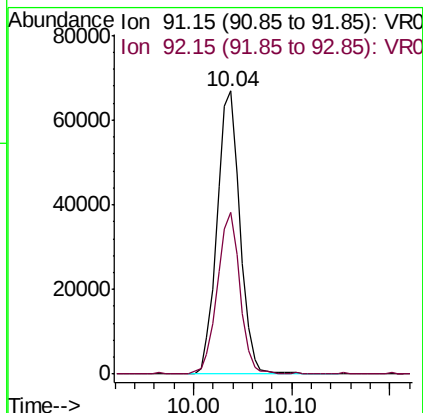
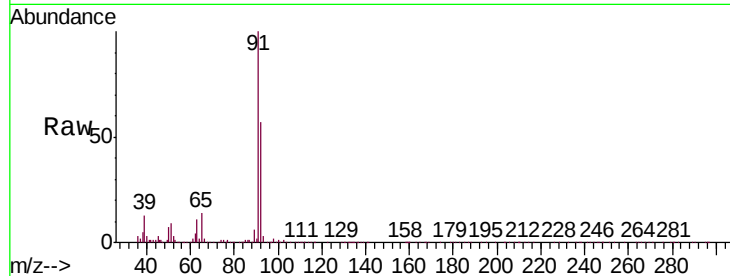
BE9G1

Tgt Ion: 91 Resp: 108345

Ion Ratio Lower Upper

91 100

92 57.3 41.8 77.6



#45

1,1,2-Trichloroethane

Concen: 5.038 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Tgt Ion: 97 Resp: 77035

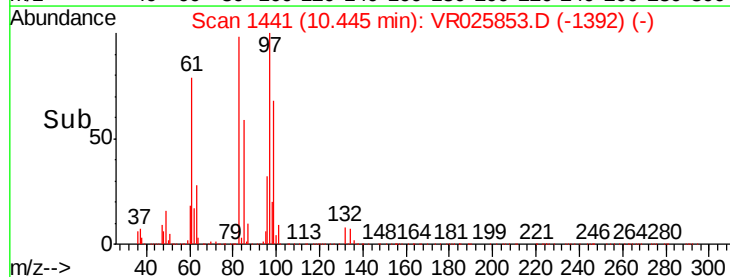
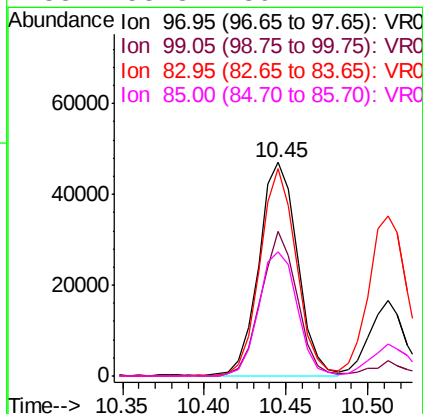
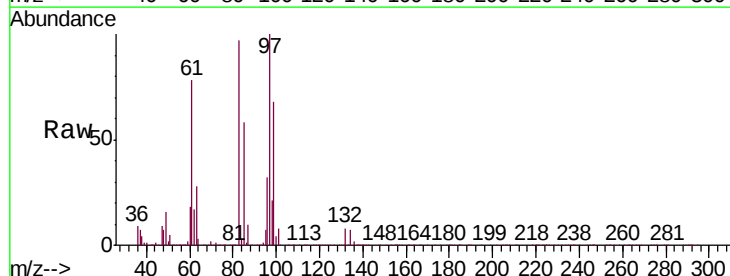
Ion Ratio Lower Upper

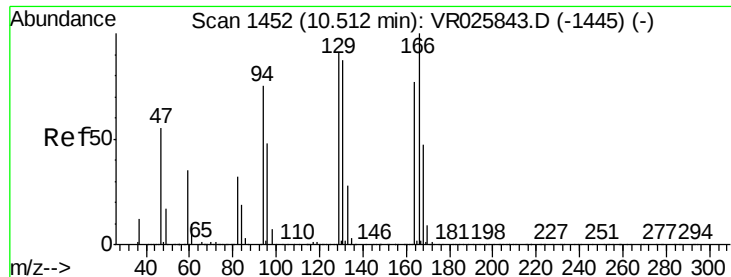
97 100

99 67.5 39.6 73.6

83 97.4 62.2 115.6

85 58.3 39.1 72.7

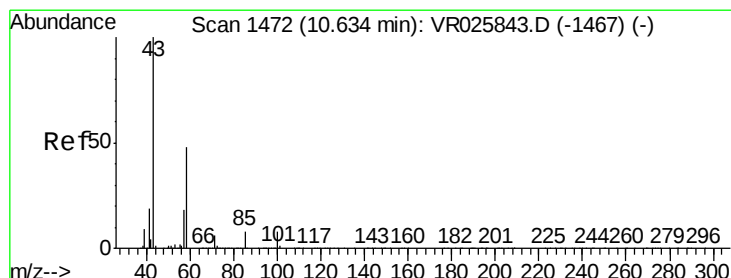
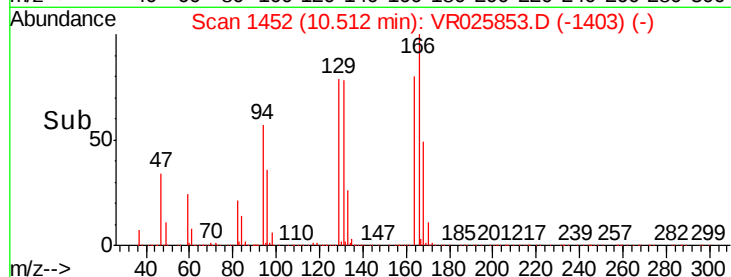
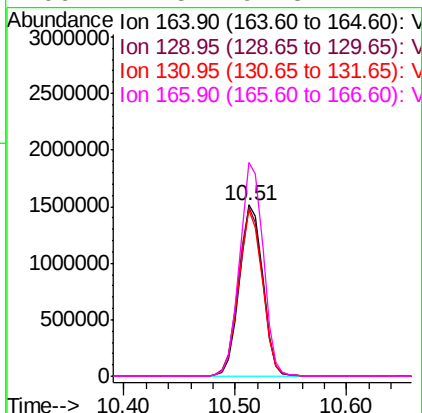
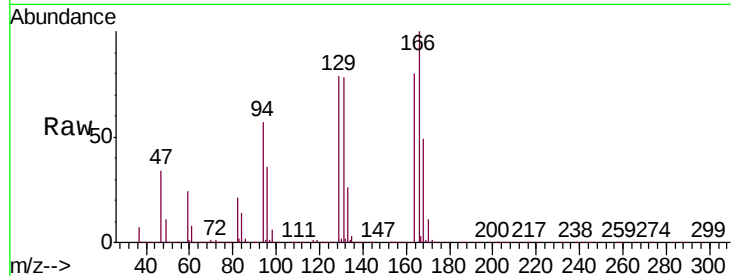




#47
Tetrachloroethene
Concen: 88.970 ug/L
RT: 10.51 min Scan# 1452
Delta R.T. -0.00 min
Lab File: VR025853.D
Acq: 25 Sep 2018 18:34

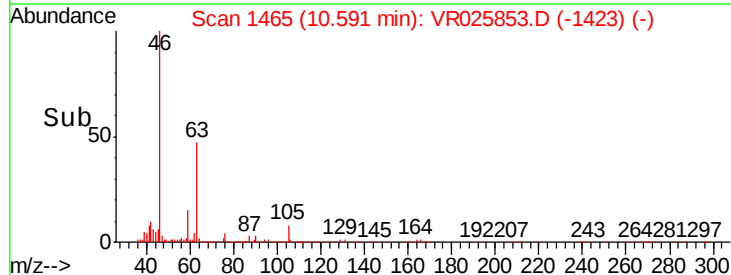
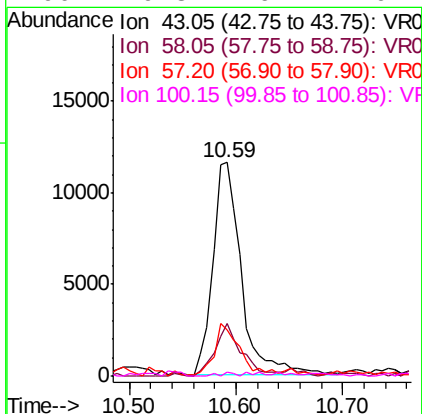
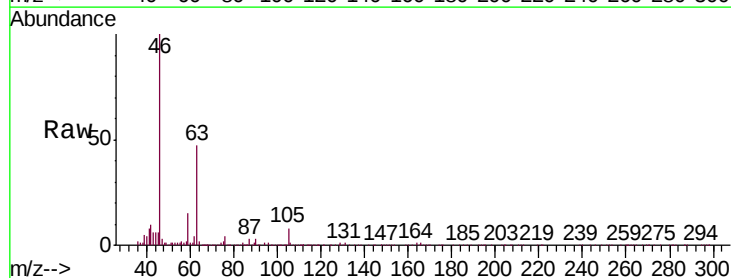
Instrument :
MSVOA_R
ClientSampled :
BE9G1

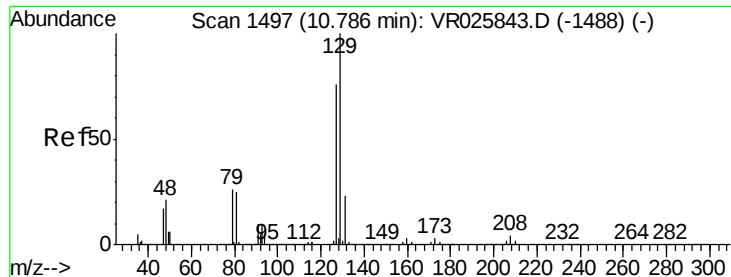
Tgt Ion:164 Resp: 2209393
Ion Ratio Lower Upper
164 100
129 98.4 80.8 150.2
131 96.8 74.5 138.3
166 124.5 92.5 171.7



#48
2-Hexanone
Concen: 2.562 ug/L
RT: 10.59 min Scan# 1465
Delta R.T. -0.04 min
Lab File: VR025853.D
Acq: 25 Sep 2018 18:34

Tgt Ion: 43 Resp: 21397
Ion Ratio Lower Upper
43 100
58 22.3 39.5 59.3#
57 22.1 14.6 21.8#
100 0.8 6.7 10.1#





#49

Dibromochloromethane

Concen: 122.176 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. -0.27 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Instrument :

MSVOA_R

ClientSampleId :

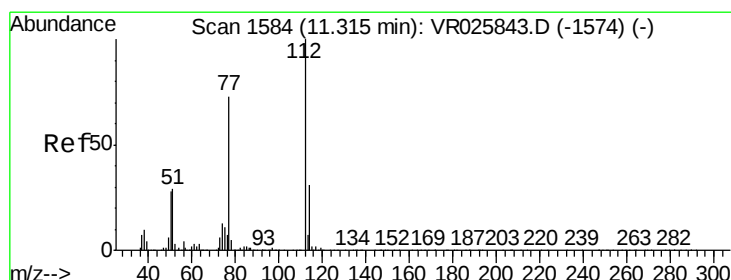
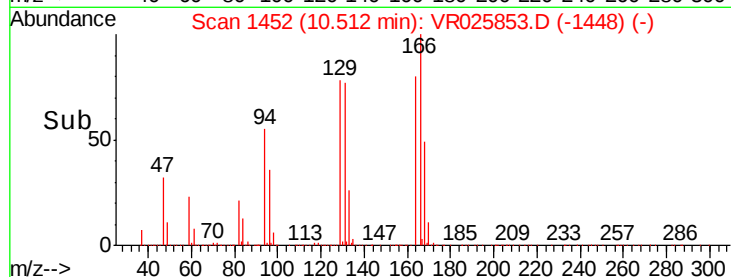
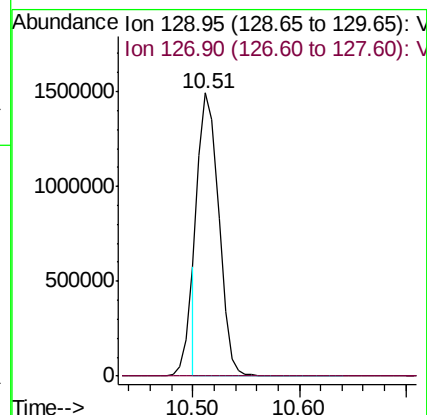
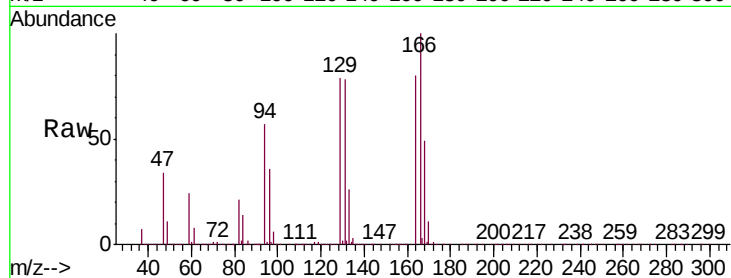
BE9G1

Tgt Ion:129 Resp: 1946448

Ion Ratio Lower Upper

129 100

127 0.1 54.1 100.5#



#51

Chlorobenzene

Concen: 0.346 ug/L

RT: 11.32 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

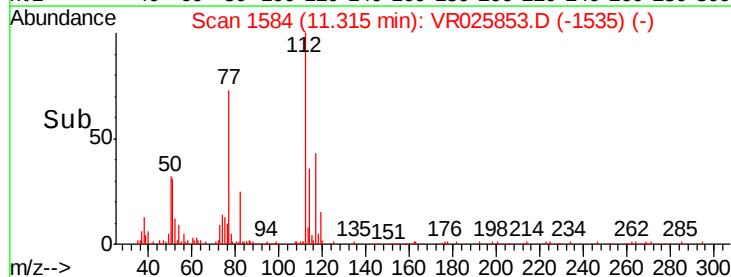
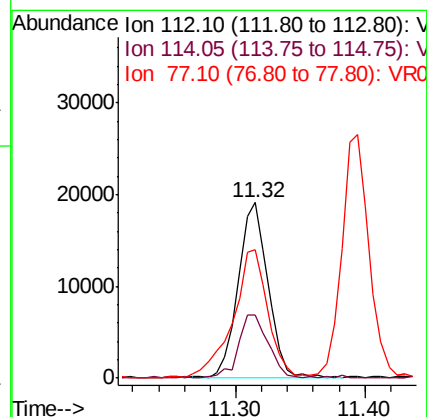
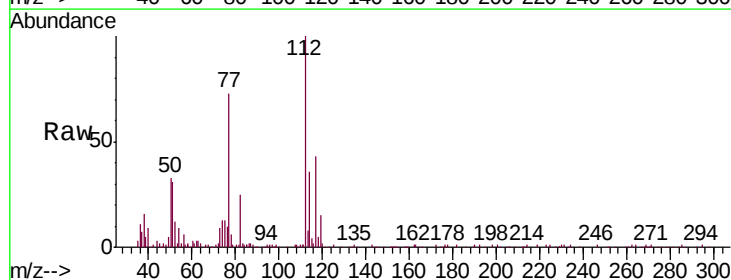
Tgt Ion:112 Resp: 30248

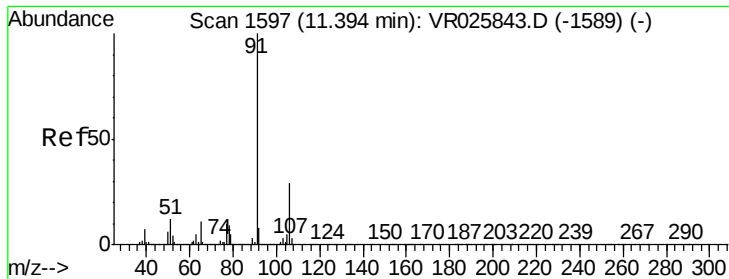
Ion Ratio Lower Upper

112 100

114 36.3 22.7 42.3

77 72.8 58.5 87.7





#52

Ethylbenzene

Concen: 2.219 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Instrument :

MSVOA_R

ClientSampleId :

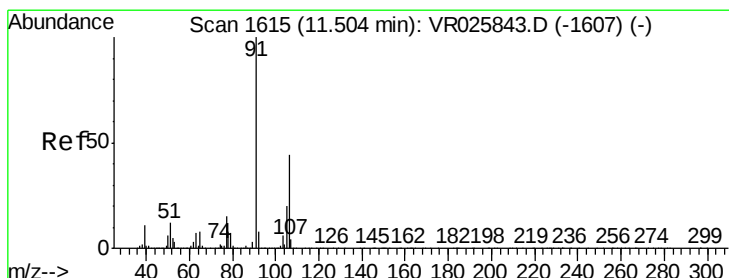
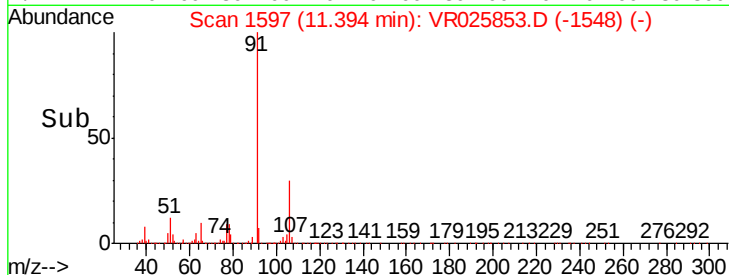
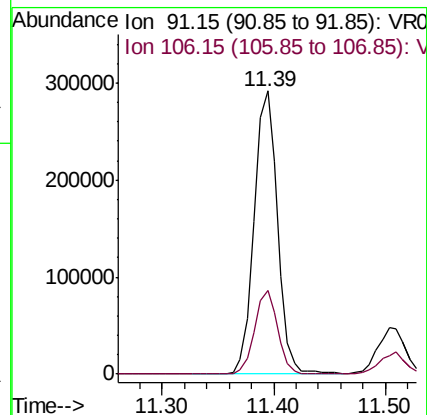
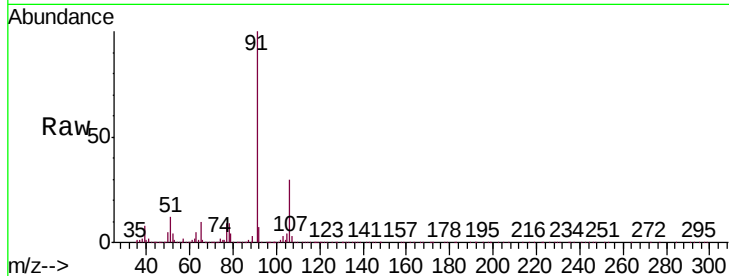
BE9G1

Tgt Ion: 91 Resp: 425686

Ion Ratio Lower Upper

91 100

106 29.6 20.6 38.4



#53

m,p-Xylene

Concen: 0.524 ug/L

RT: 11.51 min Scan# 1616

Delta R.T. 0.01 min

Lab File: VR025853.D

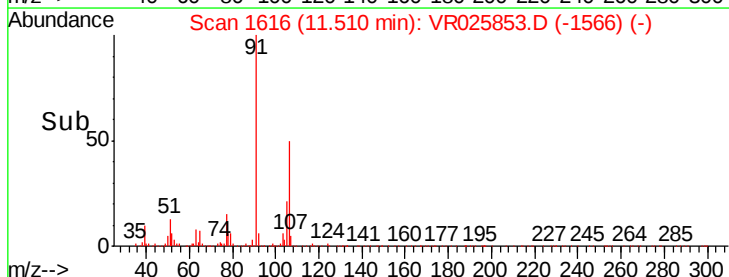
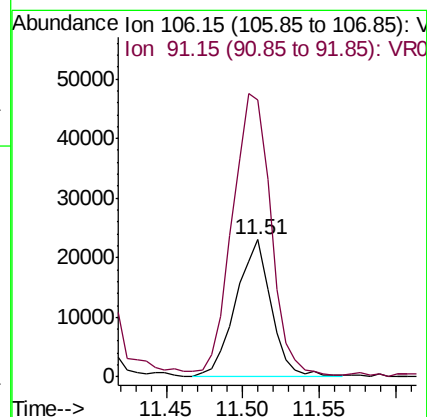
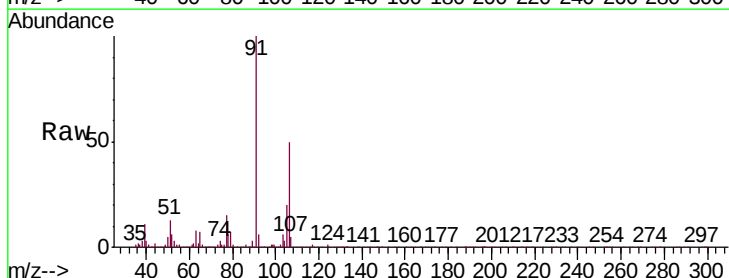
Acq: 25 Sep 2018 18:34

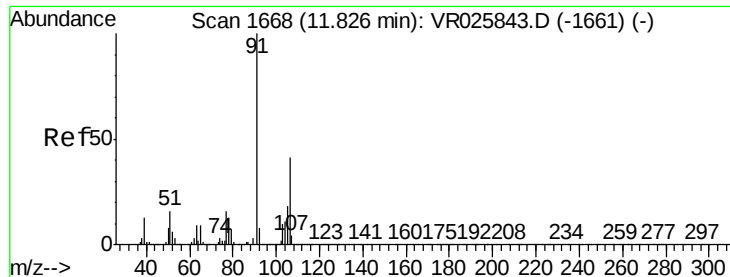
Tgt Ion: 106 Resp: 36272

Ion Ratio Lower Upper

106 100

91 201.9 159.7 296.5





#54

o-Xylene

Concen: 0.884 ug/L

RT: 11.83 min Scan# 1669

Delta R.T. 0.01 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Instrument :

MSVOA_R

ClientSampleId :

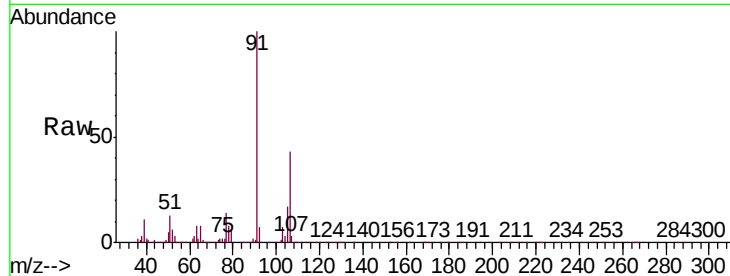
BE9G1

Tgt Ion:106 Resp: 55976

Ion Ratio Lower Upper

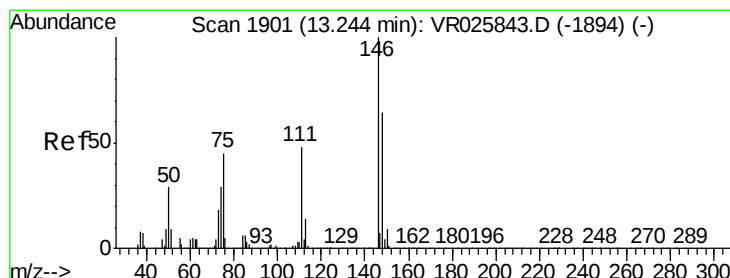
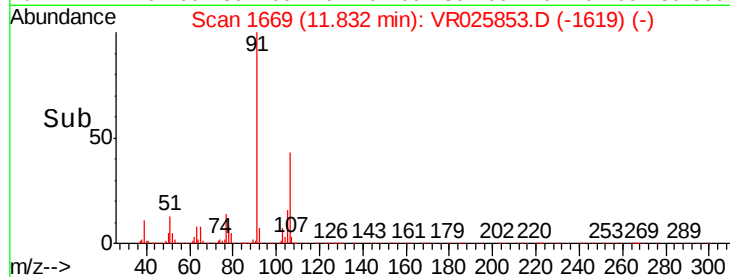
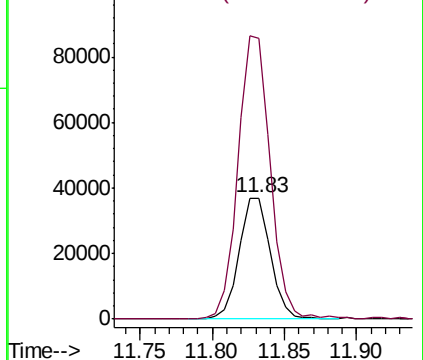
106 100

91 231.3 164.5 305.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#63

1,4-Dichlorobenzene

Concen: 0.296 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. -0.00 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

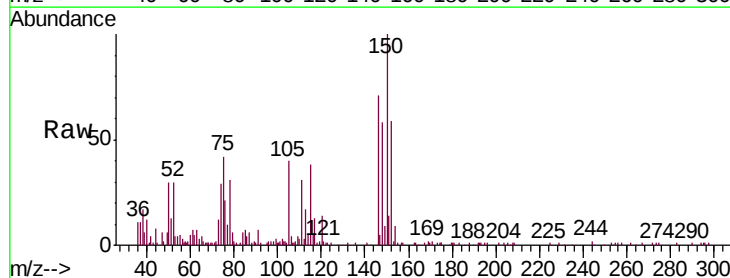
Tgt Ion:146 Resp: 13270

Ion Ratio Lower Upper

146 100

111 43.1 32.9 61.1

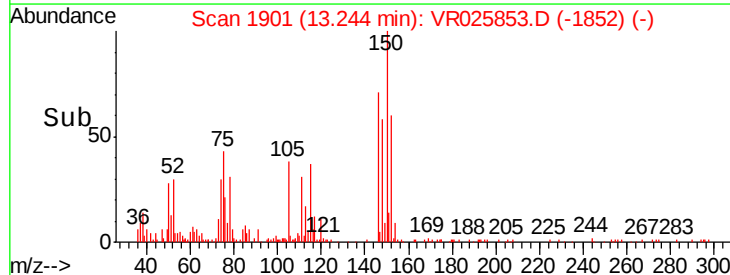
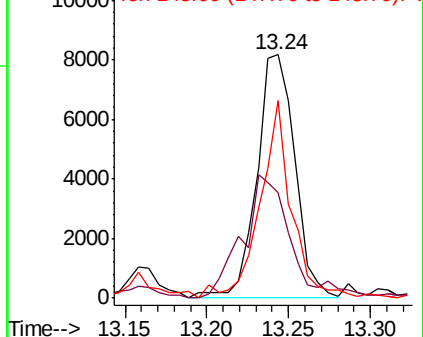
148 81.0 45.5 84.5

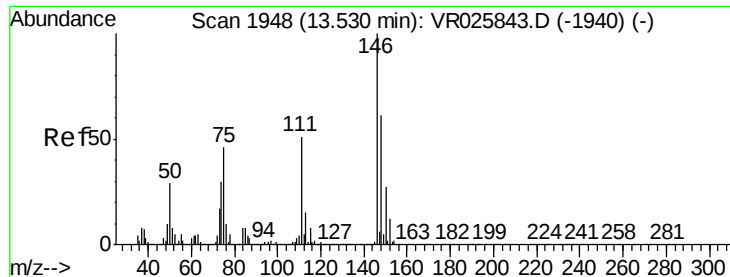


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

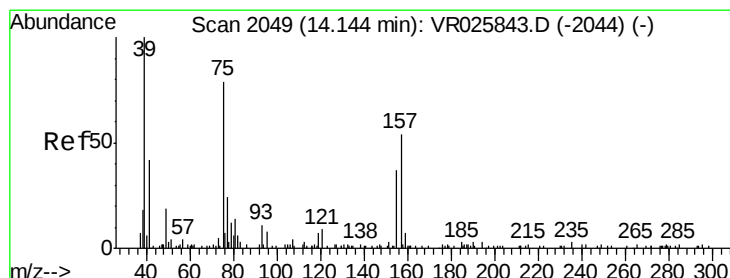
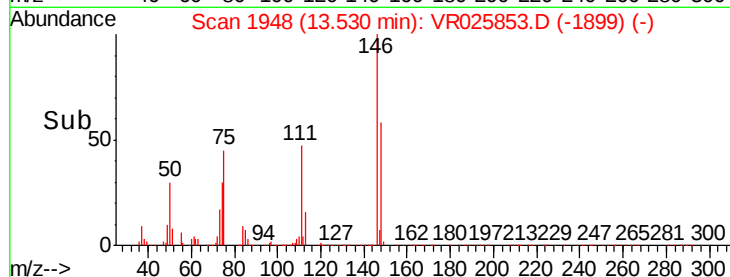
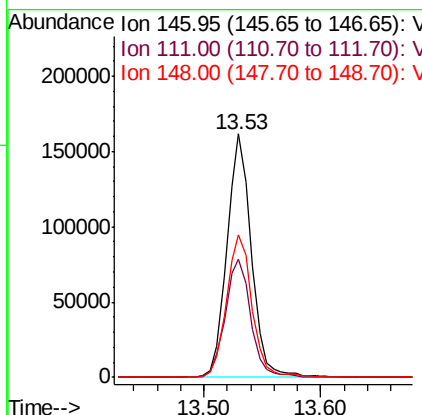
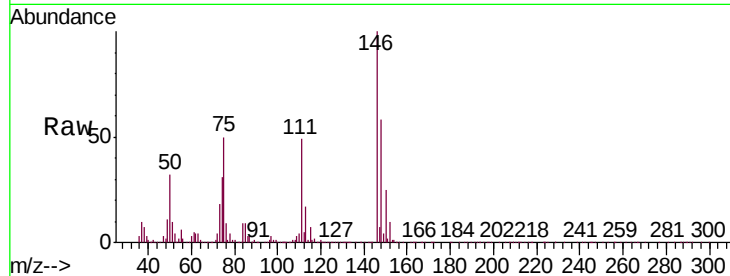




#65
 1,2-Dichlorobenzene
 Concen: 6.627 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VR025853.D
 Acq: 25 Sep 2018 18:34

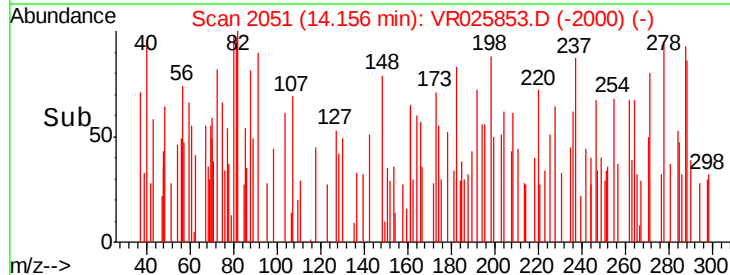
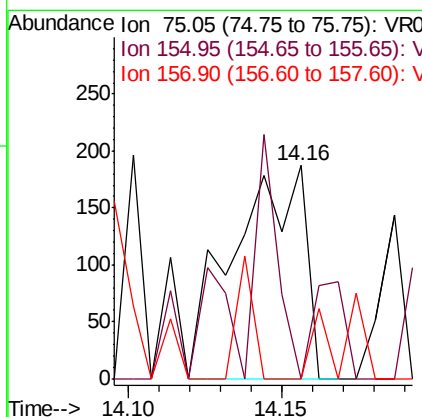
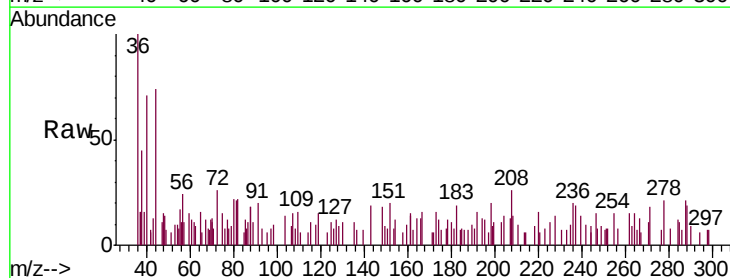
Instrument :
 MSVOA_R
 ClientSampleID :
 BE9G1

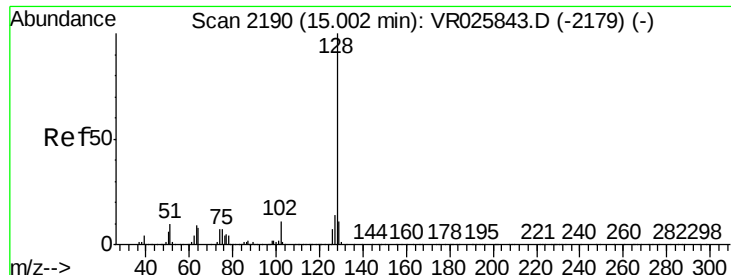
Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.7	39.4	59.0
148	58.4	53.5	80.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.186 ug/L
 RT: 14.16 min Scan# 2051
 Delta R.T. 0.01 min
 Lab File: VR025853.D
 Acq: 25 Sep 2018 18:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	37.8	56.6#
157	0.0	49.7	74.5#





#69

Naphthalene

Concen: 0.288 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VR025853.D

Acq: 25 Sep 2018 18:34

Instrument :

MSVOA_R

ClientSampleId :

BE9G1

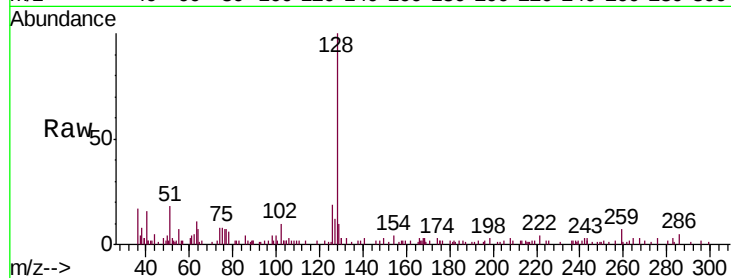
Tgt Ion:128 Resp: 6990

Ion Ratio Lower Upper

128 100

127 17.4 10.5 15.7#

129 10.9 9.4 14.2



Abundance Ion 128.00 (127.70 to 128.70): V

6000 Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

