

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082720\
 Data File : VV018113.D
 Acq On : 27 Aug 2020 13:31
 Operator : SY/MD
 Sample : L3800-17
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3G4

Quant Time: Aug 28 06:22:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 28 06:20:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	260009	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	257327	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	126553	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	84610	42.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.30%
7) Chloroethane-d5	1.58	69	75297	46.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.78%
11) 1,1-Dichloroethene-d2	2.12	63	132639	34.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.90%
21) 2-Butanone-d5	3.91	46	116507	89.67	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.67%
24) Chloroform-d	4.38	84	163740	45.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.68%
26) 1,2-Dichloroethane-d4	5.06	65	112668	48.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.06%
32) Benzene-d6	5.07	84	335798	47.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.70%
36) 1,2-Dichloropropane-d6	6.09	67	111143	47.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.88%
41) Toluene-d8	7.34	98	292769	45.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.82%
43) trans-1,3-Dichloropropene-	7.64	79	50095	47.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.28%
47) 2-Hexanone-d5	8.11	63	67794	91.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.12%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	140576	46.56	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.12%
64) 1,2-Dichlorobenzene-d4	11.65	152	125160	50.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.50%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	7690	3.329 ug/L #	34
8) Chloroethane	1.32	64	4310	2.923 ug/L	86
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1182	0.641 ug/L #	20
12) 1,1-Dichloroethene	2.13	96	6870	3.939 ug/L #	1
13) Acetone	2.19	43	1853	1.381 ug/L	85
17) trans-1,2-Dichloroethene	2.78	96	2051	1.144 ug/L	96
18) Methyl tert-butyl Ether	2.78	73	32198	5.430 ug/L	99
20) cis-1,2-Dichloroethene	3.94	96	449432	228.116 ug/L	99
25) Chloroform	4.40	83	2749	0.748 ug/L	84
34) Trichloroethene	5.94	95	297206	141.231 ug/L	98
37) 1,2-Dichloropropane	6.09	63	11907	5.484 ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	2991	0.972 ug/L #	70
45) 1,1,2-Trichloroethane	7.99	97	3618	1.799 ug/L #	1
46) Tetrachloroethene	8.00	164	443172	287.149 ug/L	99
59) 1,2,3-Trichloropropane	11.27	75	14311	5.337 ug/L #	88

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Quant Title : VOC Analysis
QLast Update : Fri Aug 28 06:20:16 2020
Response via : Initial Calibration

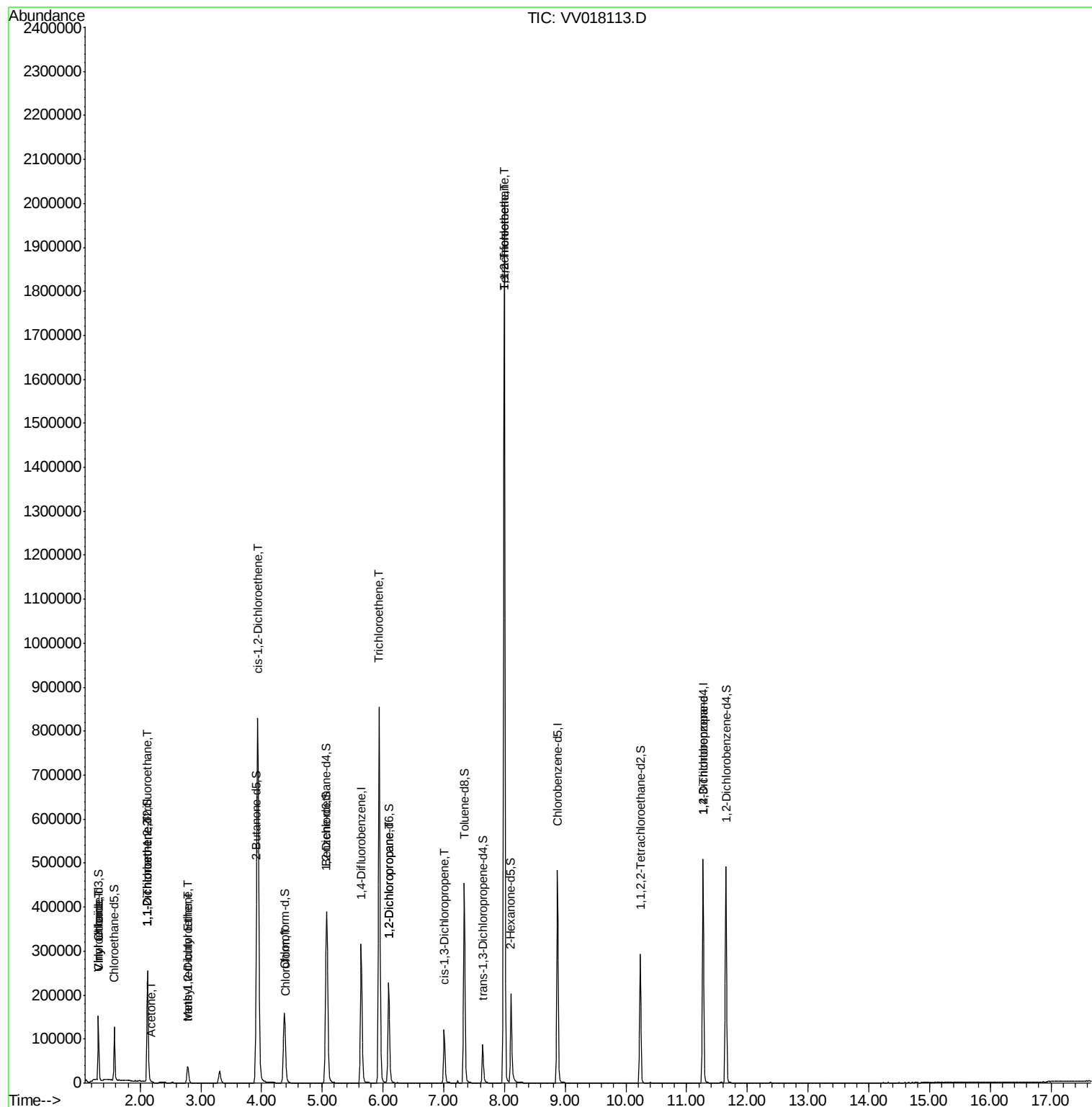
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

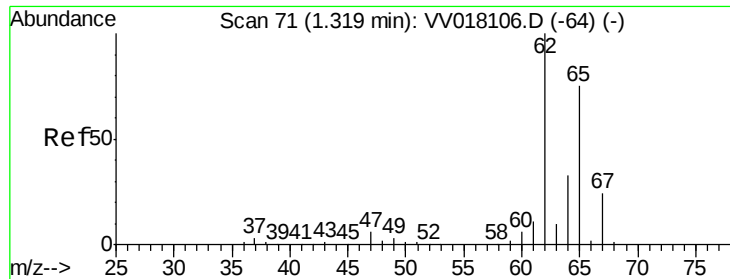
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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#5

Vinyl chloride

Concen: 3.329 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

Instrument :

MSVOA_V

ClientSampleId :

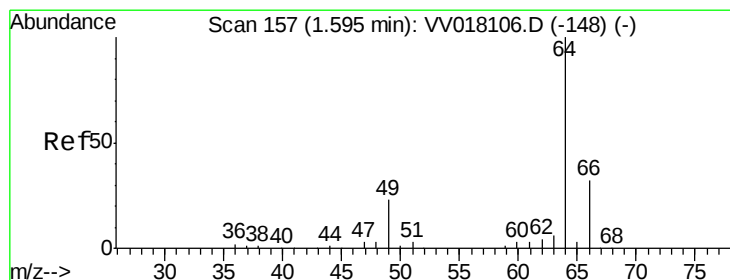
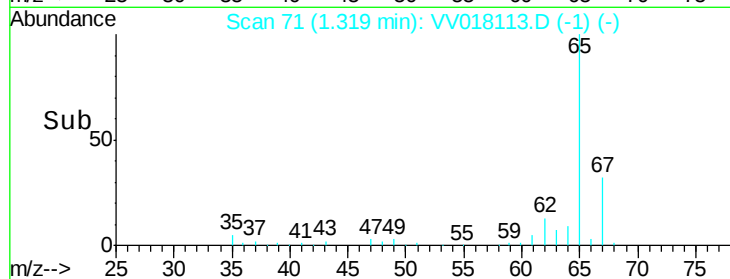
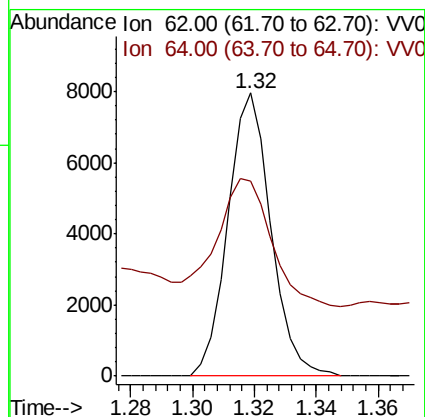
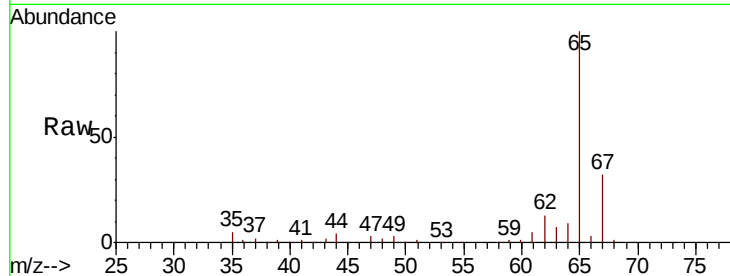
BG3G4

Tot Ion: 62 Resp: 7690

Ion Ratio Lower Upper

62 100

64 69.0 22.4 41.6#



#8

Chloroethane

Concen: 2.923 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.28 min

Lab File: VV018113.D

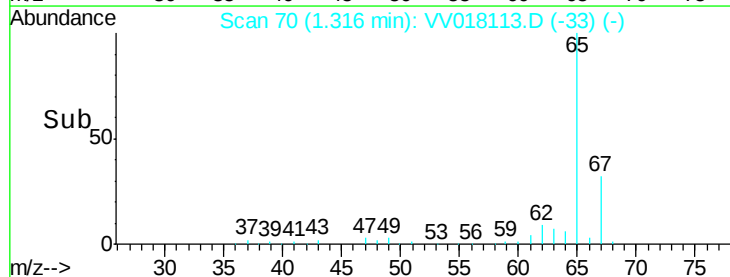
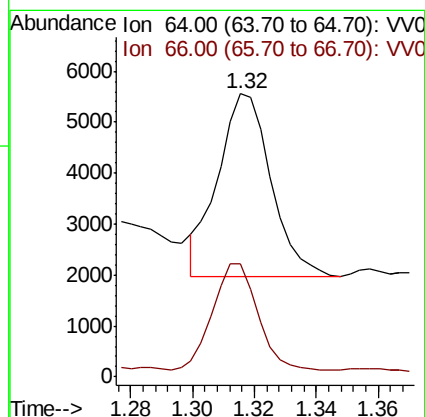
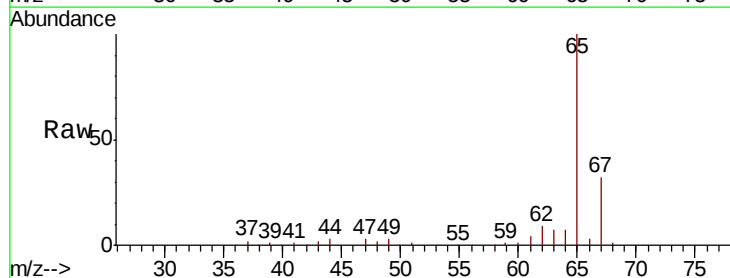
Acq: 27 Aug 2020 13:31

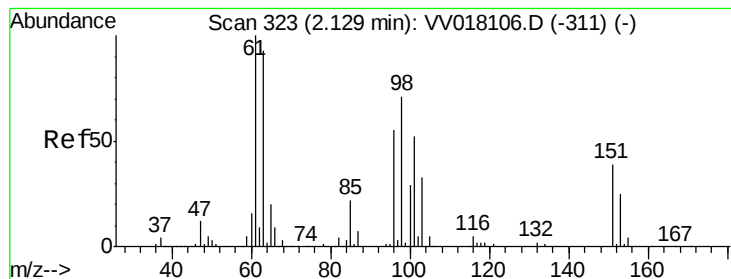
Tgt Ion: 64 Resp: 4310

Ion Ratio Lower Upper

64 100

66 39.8 22.3 41.3





#10

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

Concen: 0.641 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

Instrument :

MSVOA_V

ClientSampleId :

BG3G4

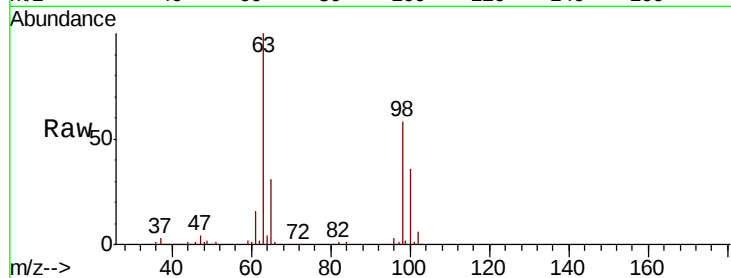
Tot Ion:101 Resp: 1182

Ion Ratio Lower Upper

101 100

85 0.0 34.9 52.3#

151 0.0 59.1 88.7#



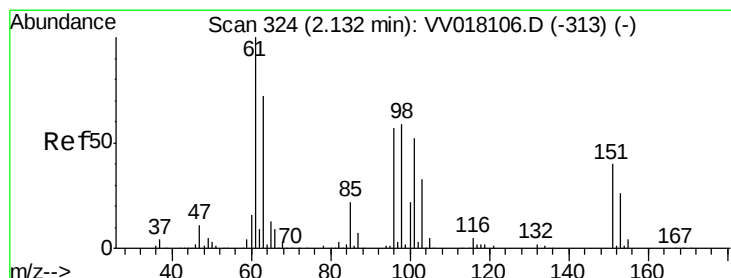
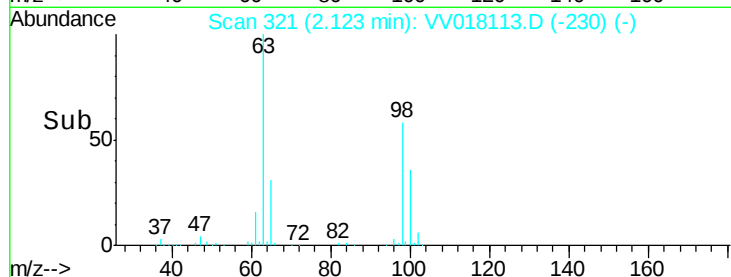
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V

2.12

Time-->



#12

1,1-Dichloroethene

Concen: 3.939 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

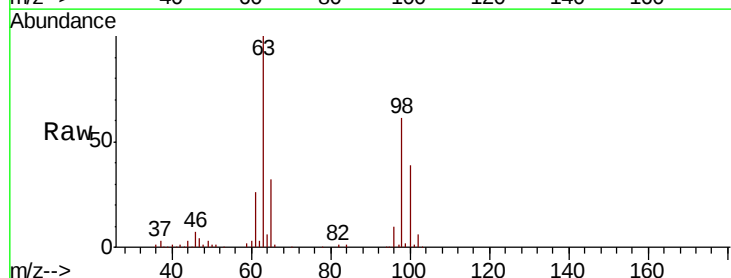
Tgt Ion: 96 Resp: 6870

Ion Ratio Lower Upper

96 100

61 267.1 127.1 236.0#

63 1042.1 95.2 176.8#



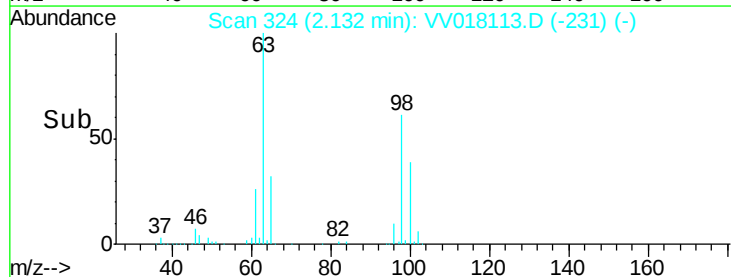
Abundance Ion 96.00 (95.70 to 96.70): VV0

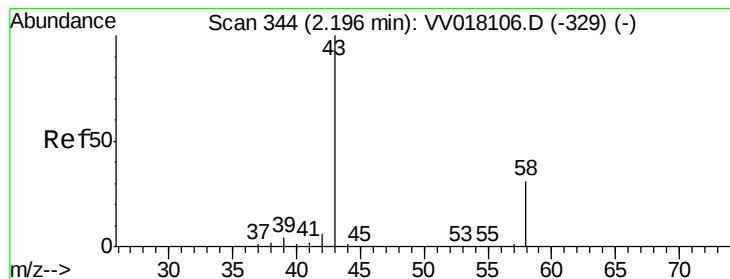
Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

2.13

Time-->





#13

Acetone

Concen: 1.381 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.01 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

Instrument :

MSVOA_V

ClientSampleId :

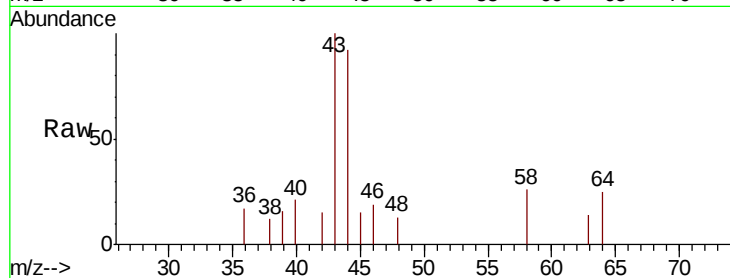
BG3G4

Tot Ion: 43 Resp: 1853

Ion Ratio Lower Upper

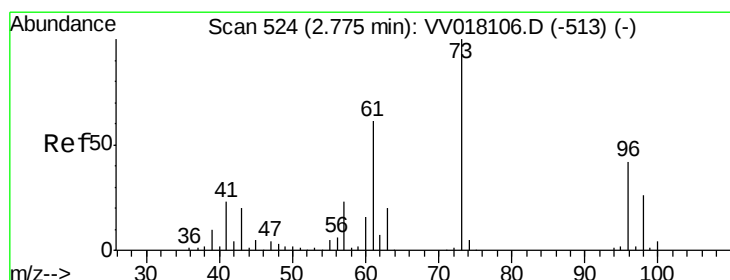
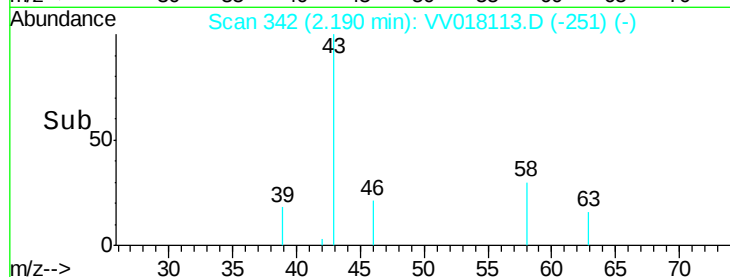
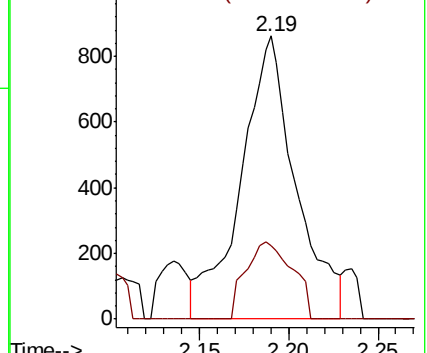
43 100

58 23.2 0.0 63.6



Abundance Ion 43.00 (42.70 to 43.70): VV018106.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV018106.D (-329) (-)



#17

trans-1,2-Dichloroethene

Concen: 1.144 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

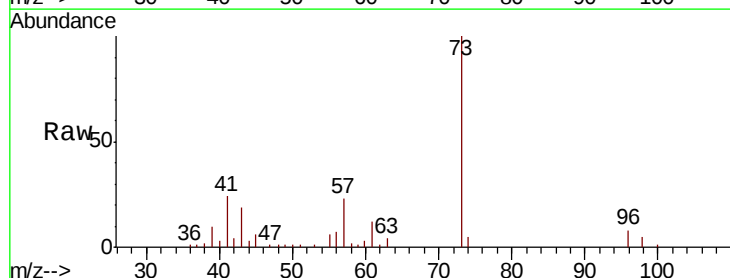
Tgt Ion: 96 Resp: 2051

Ion Ratio Lower Upper

96 100

61 151.3 102.4 190.2

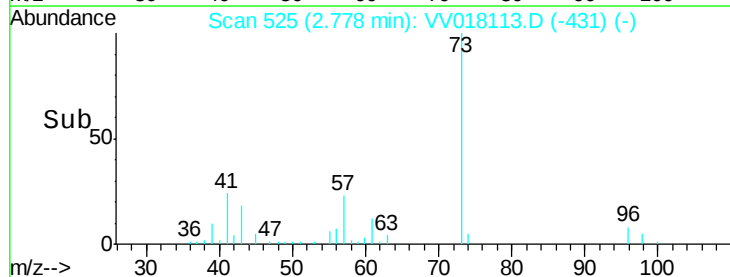
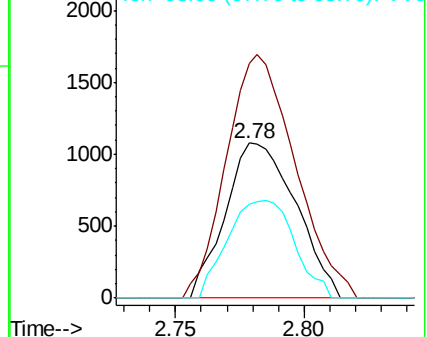
98 60.6 44.4 82.5

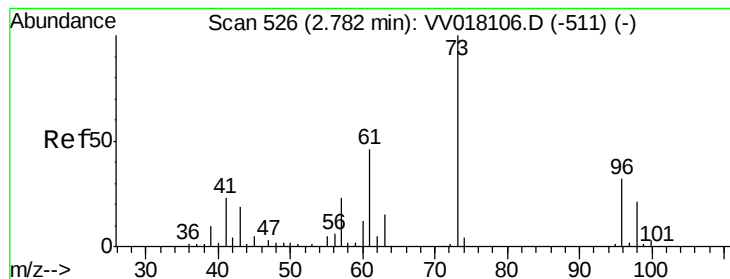


Abundance Ion 96.00 (95.70 to 96.70): VV018106.D (-513) (-)

Ion 61.00 (60.70 to 61.70): VV018106.D (-513) (-)

Ion 98.00 (97.70 to 98.70): VV018106.D (-513) (-)



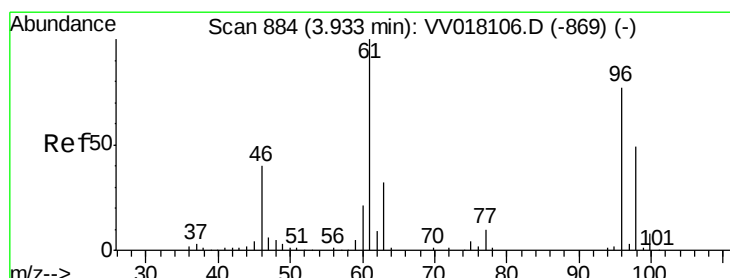
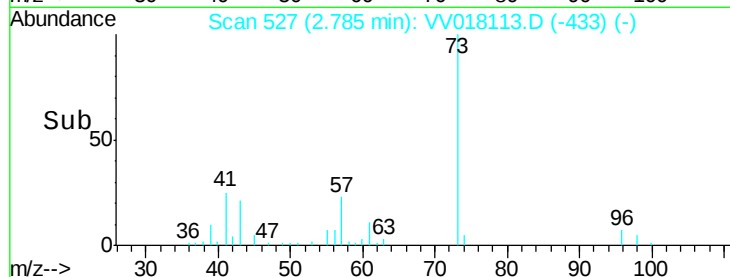
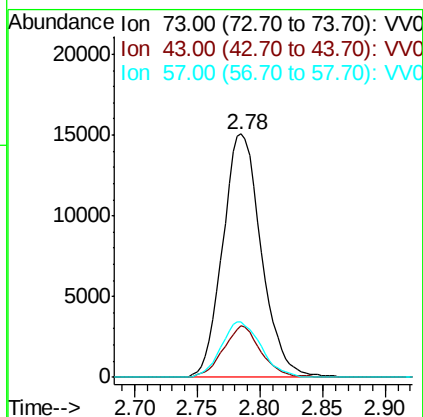
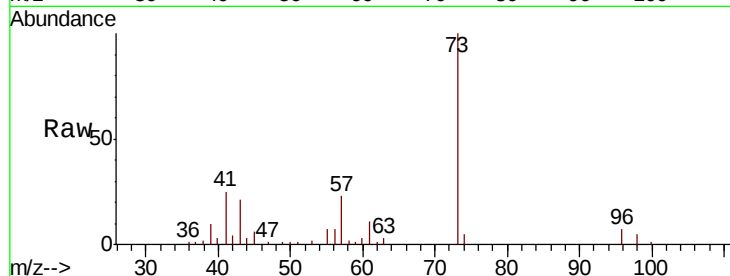


#18

Methvl tert-butvl Ether
 Concen: 5.430 ug/L
 RT: 2.78 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VV018113.D
 Acq: 27 Aug 2020 13:31

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3G4

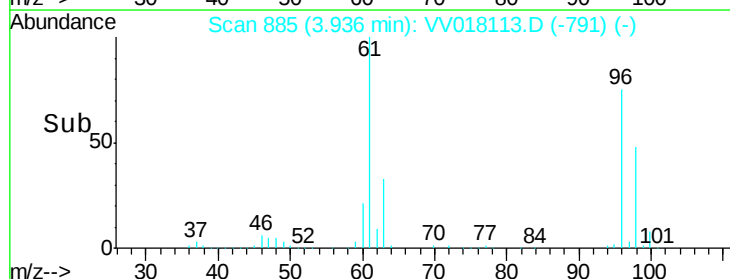
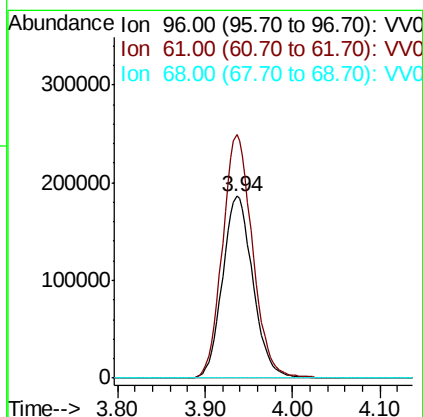
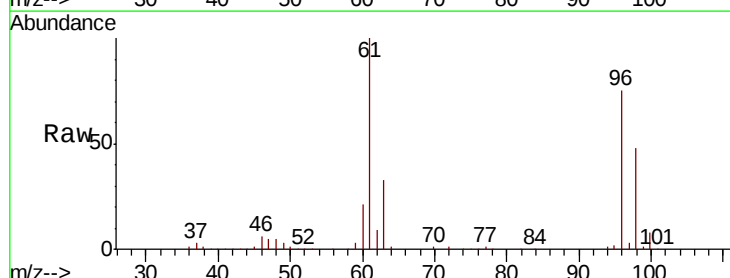
Tot Ion	Ratio	Lower	Upper
73	100		
43	20.2	15.9	23.9
57	23.3	18.1	27.1

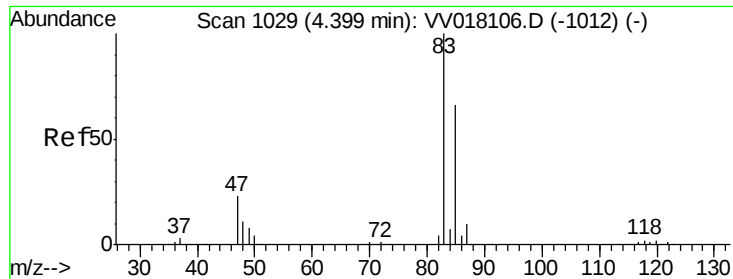


#20

cis-1,2-Dichloroethene
 Concen: 228.116 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. 0.00 min
 Lab File: VV018113.D
 Acq: 27 Aug 2020 13:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	134.0	95.0	176.4
68	0.0	0.0	0.0

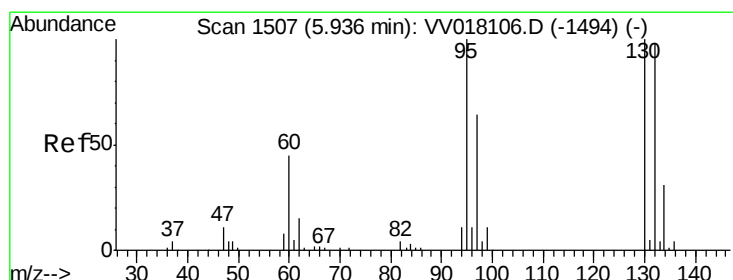
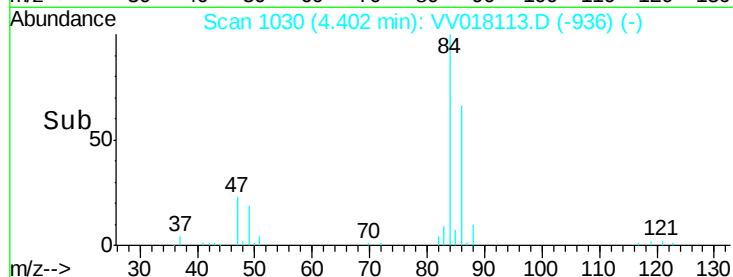
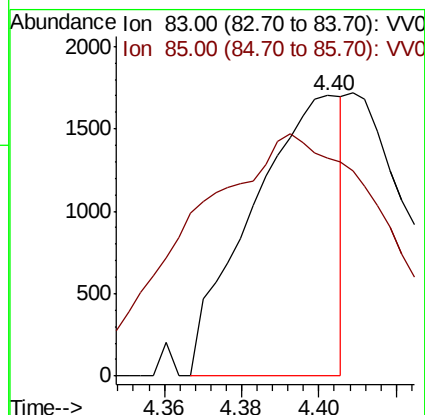
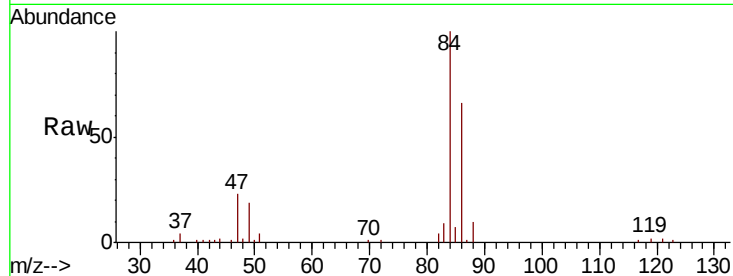




#25
Chloroform
Concen: 0.748 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV018113.D
Acq: 27 Aug 2020 13:31

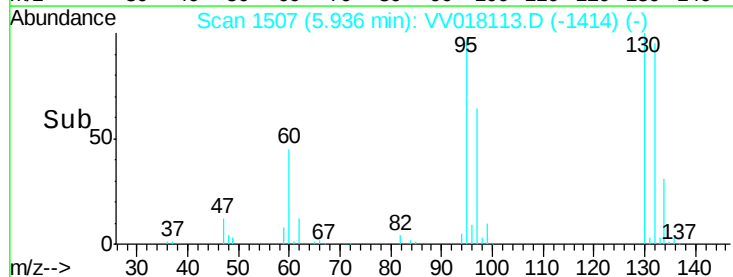
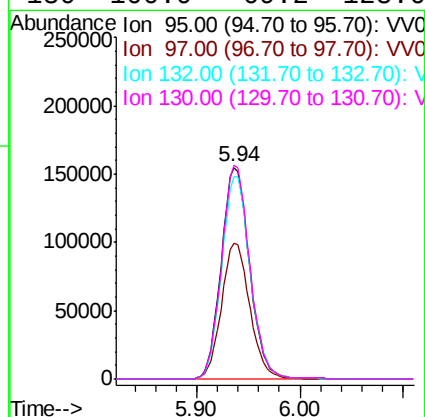
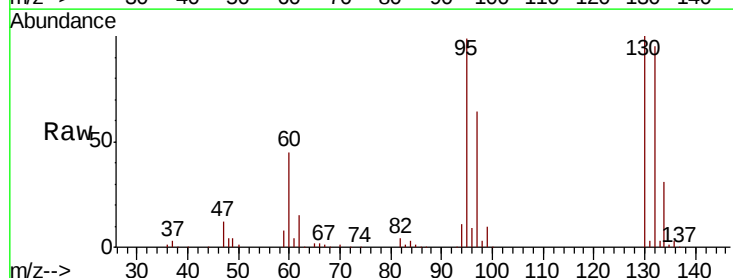
Instrument :
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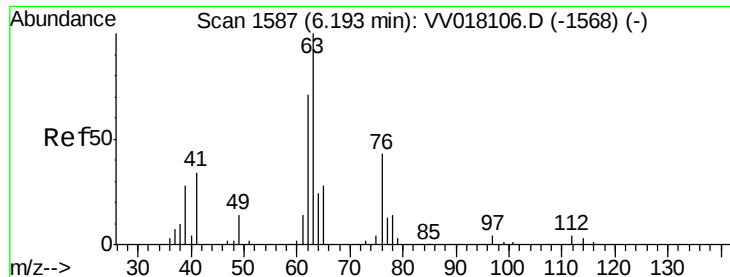
Tot Ion: 83 Resp: 2749
Ion Ratio Lower Upper
83 100
85 77.6 45.5 84.5



#34
Trichloroethene
Concen: 141.231 ug/L
RT: 5.94 min Scan# 1507
Delta R.T. 0.00 min
Lab File: VV018113.D
Acq: 27 Aug 2020 13:31

Tgt Ion: 95 Resp: 297206
Ion Ratio Lower Upper
95 100
97 64.4 46.0 85.4
132 95.7 65.8 122.2
130 100.9 69.2 128.6

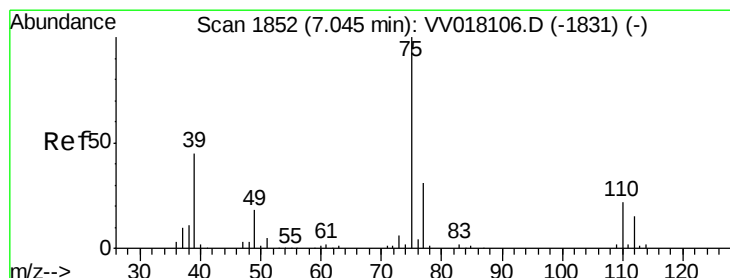
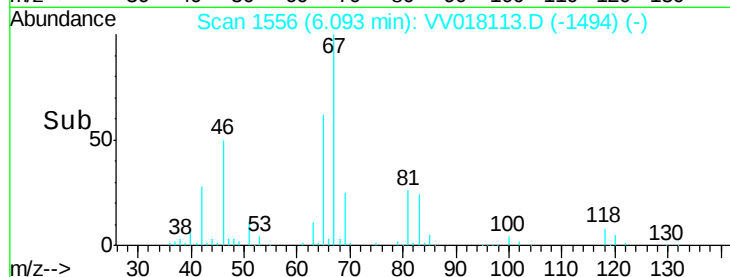
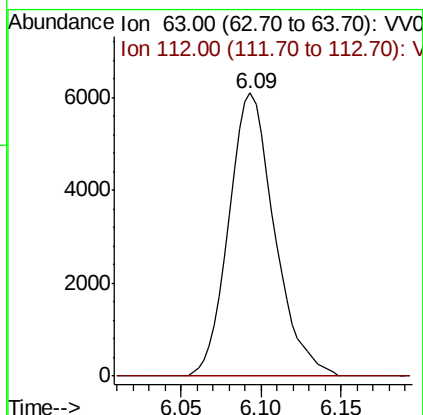
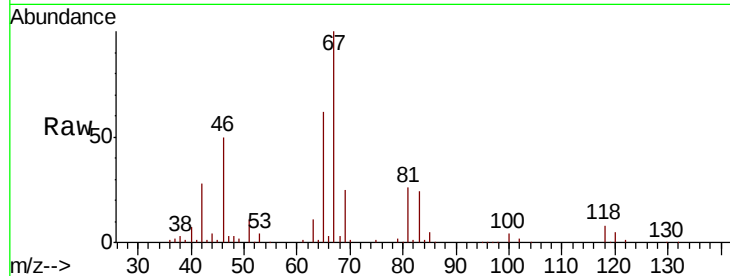




#37
 1,2-Dichloropropane
 Concen: 5.484 ug/L
 RT: 6.09 min Scan# 1556
 Delta R.T. -0.10 min
 Lab File: VV018113.D
 Acq: 27 Aug 2020 13:31

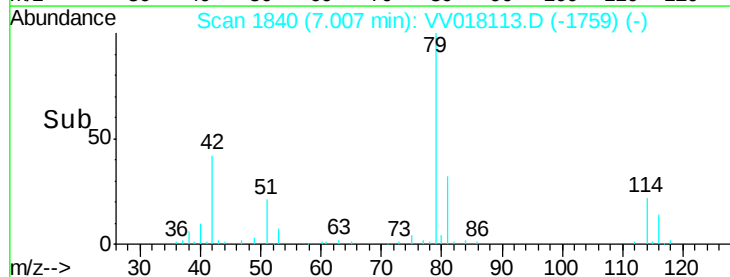
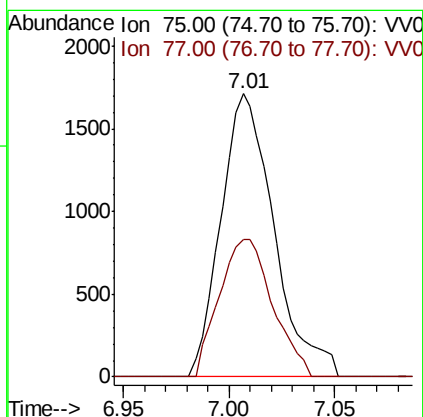
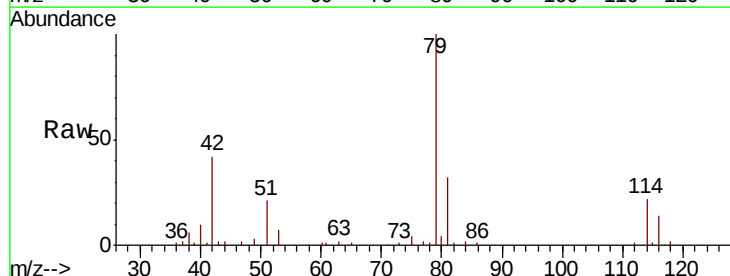
Instrument :
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 ClientSampleId :
 BG3G4

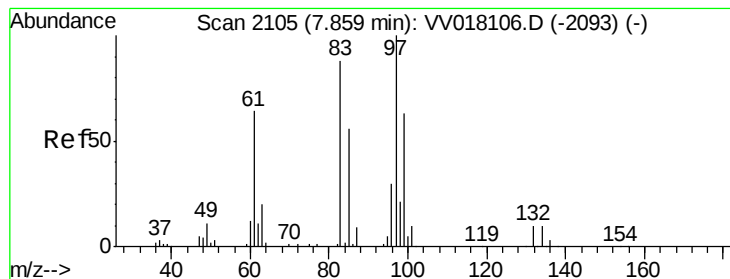
Tot Ion: 63 Resp: 11907
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.972 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV018113.D
 Acq: 27 Aug 2020 13:31

Tgt Ion: 75 Resp: 2991
 Ion Ratio Lower Upper
 75 100
 77 48.7 22.3 41.5#





#45

1,1,2-Trichloroethane

Concen: 1.799 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. 0.14 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

Instrument :

MSVOA_V

ClientSampleId :

BG3G4

Tot Ion: 97 Resp: 3618

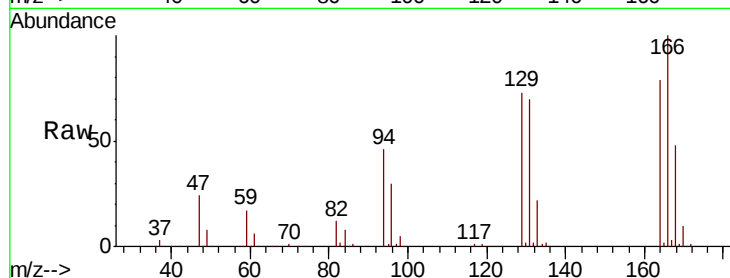
Ion Ratio Lower Upper

97 100

99 15.6 44.2 82.2#

83 270.0 61.0 113.4#

85 39.5 39.5 73.4#

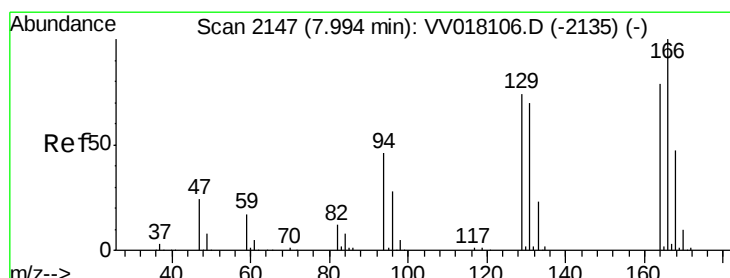
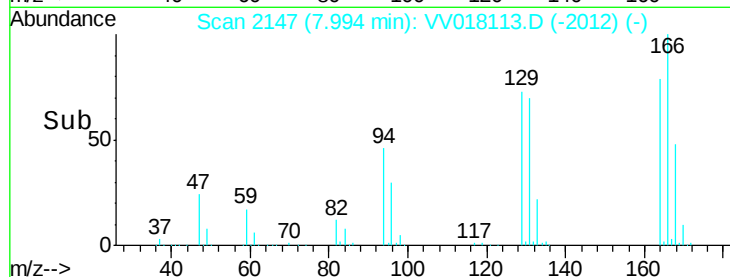
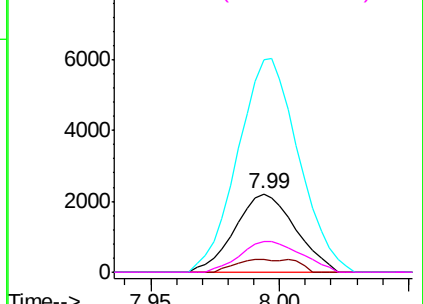


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 287.149 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

Tgt Ion: 164 Resp: 443172

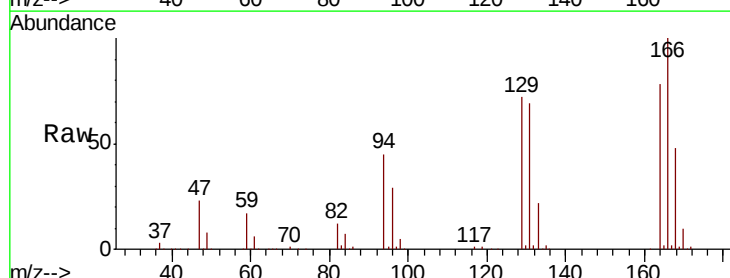
Ion Ratio Lower Upper

164 100

129 92.1 64.8 120.3

131 88.4 64.5 119.9

166 127.5 88.9 165.1

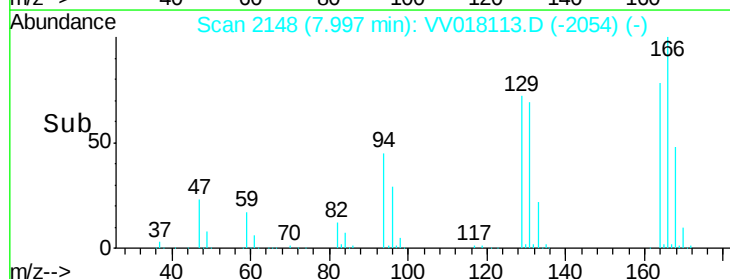
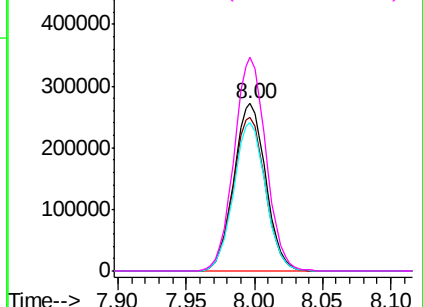


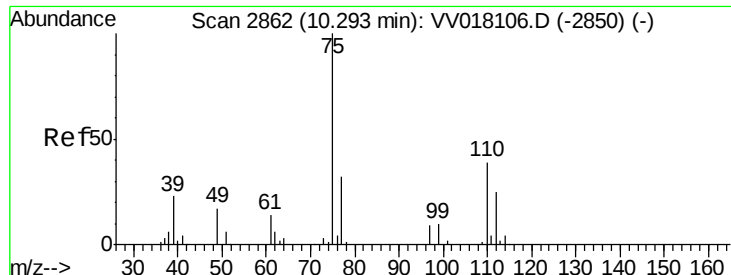
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#59
 1,2,3-Trichloropropane
 Concen: 5.337 ug/L
 RT: 11.27 min Scan# 3166
 Delta R.T. 0.98 min
 Lab File: VV018113.D
 Acq: 27 Aug 2020 13:31

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3G4

Tot Ion: 75 Resp: 14311
 Ion Ratio Lower Upper
 75 100
 77 38.8 25.7 38.5#

