

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042520\
 Data File : VV015710.D
 Acq On : 25 Apr 2020 21:44
 Operator : SY/MD
 Sample : L2413-17
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 27 01:18:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Apr 27 01:12:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	120874	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	118523	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	56838	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	29223	4.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.60%
7) Chloroethane-d5	1.58	69	27546	4.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.40%
11) 1,1-Dichloroethene-d2	2.12	63	47554	3.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.80%
20) 2-Butanone-d5	3.91	46	105942	52.23	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.46%
24) Chloroform-d	4.38	84	71123	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
26) 1,2-Dichloroethane-d4	5.06	65	40982	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%
32) Benzene-d6	5.08	84	130800	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
36) 1,2-Dichloropropane-d6	6.09	67	42487	4.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.00%
41) Toluene-d8	7.34	98	121014	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
43) trans-1,3-Dichloropropene-	7.65	79	9634	2.76	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	55.20%
46) 2-Hexanone-d5	8.11	63	80773	47.38	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.76%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	32111	4.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.40%
64) 1,2-Dichlorobenzene-d4	11.65	152	46324	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	361804	37.821 ug/L	100
8) Chloroethane	1.37	64	90983	14.481 ug/L #	52
12) 1,1-Dichloroethene	2.13	96	7857	1.117 ug/L #	11
14) Carbon disulfide	2.31	76	858	0.043 ug/L #	44
17) Methyl tert-butyl Ether	2.79	73	3019	0.153 ug/L #	68
18) trans-1,2-Dichloroethene	2.78	96	15269	1.938 ug/L	99
19) 1,1-Dichloroethane	3.21	63	823	0.053 ug/L #	84
22) cis-1,2-Dichloroethene	3.94	96	3131876	359.595 ug/L	99
30) Cyclohexane	4.70	56	2595	0.181 ug/L	94
34) Trichloroethene	5.94	95	2185121	233.661 ug/L	98
35) Methylcyclohexane	6.16	83	2150	0.150 ug/L #	69
37) 1,2-Dichloropropane	6.10	63	5388	0.626 ug/L #	86
45) 1,1,2-Trichloroethane	8.00	97	56439	9.620 ug/L #	1
47) Tetrachloroethene	8.01	164	5654013	839.692 ug/L	96
49) Dibromochloromethane	8.01	129	5643651	929.530 ug/L #	12

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Response via : Initial Calibration

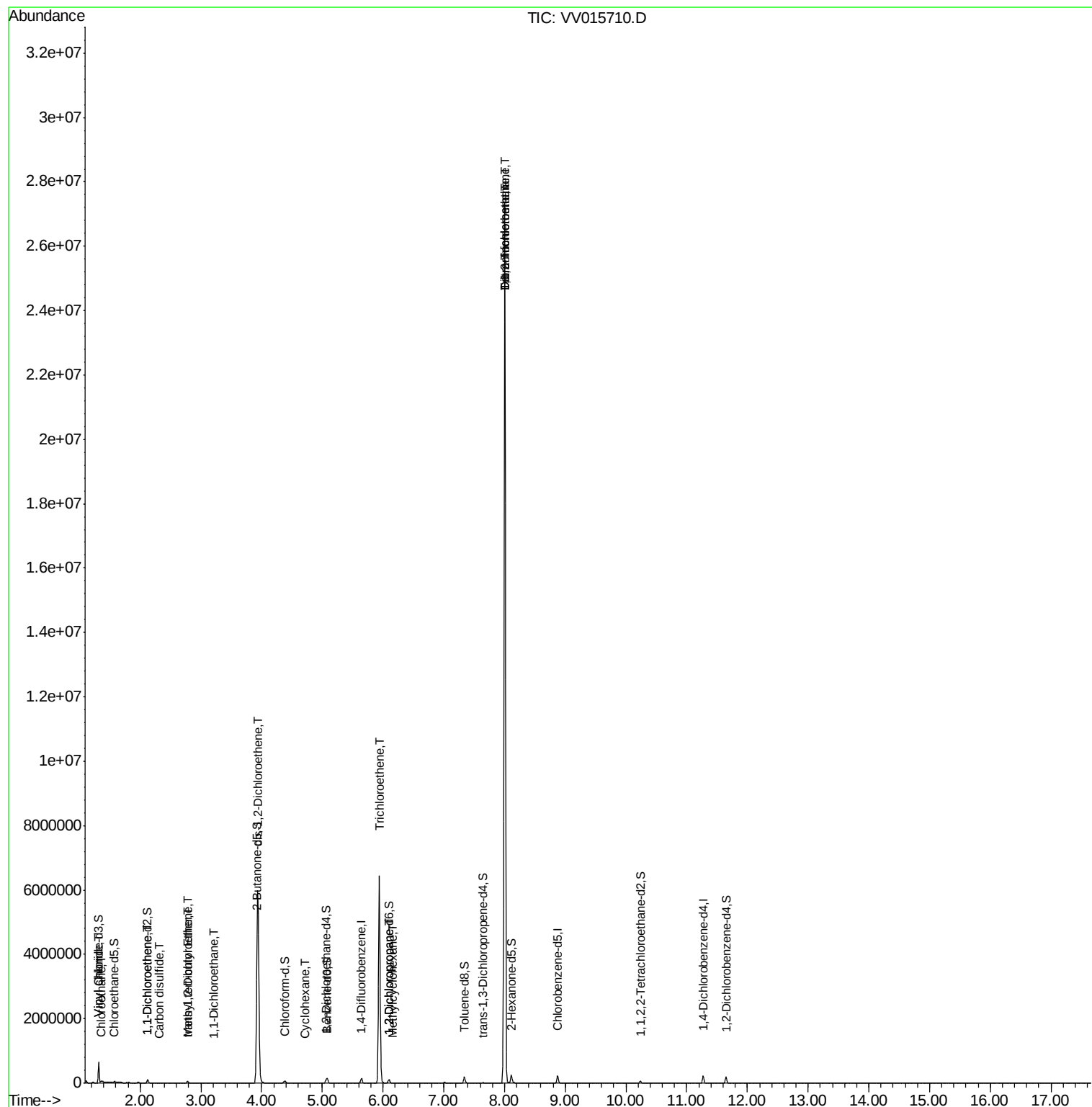
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

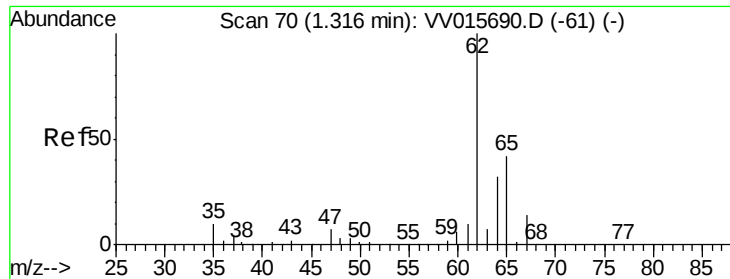
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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#5

Vinyl chloride

Concen: 37.821 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015710.D

Acq: 25 Apr 2020 21:44

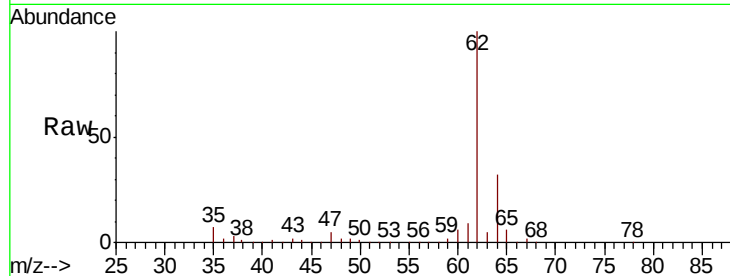
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 361804

Ion Ratio Lower Upper

62 100

64 32.5 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

400000

300000

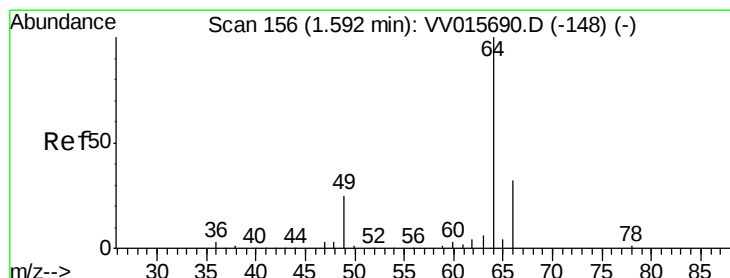
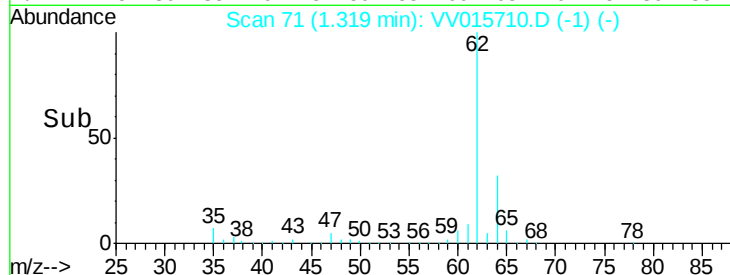
200000

100000

0

1.30 1.40

Time-->



#8

Chloroethane

Concen: 14.481 ug/L

RT: 1.37 min Scan# 86

Delta R.T. -0.23 min

Lab File: VV015710.D

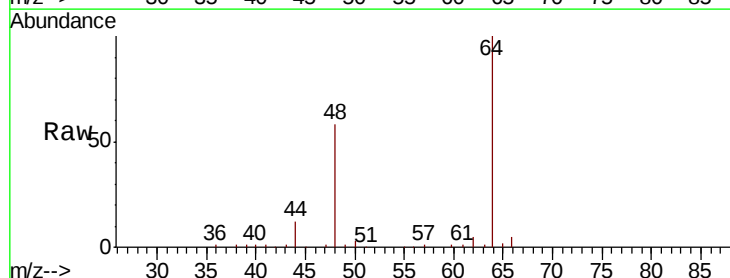
Acq: 25 Apr 2020 21:44

Tgt Ion: 64 Resp: 90983

Ion Ratio Lower Upper

64 100

66 5.1 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

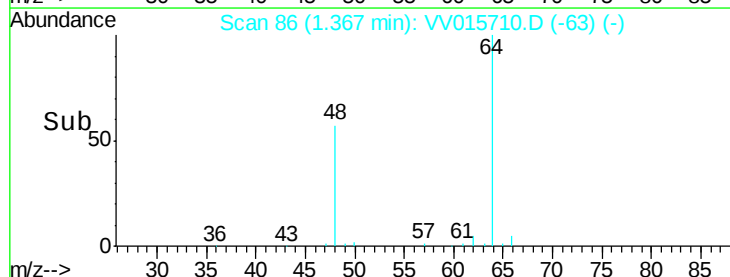
100000

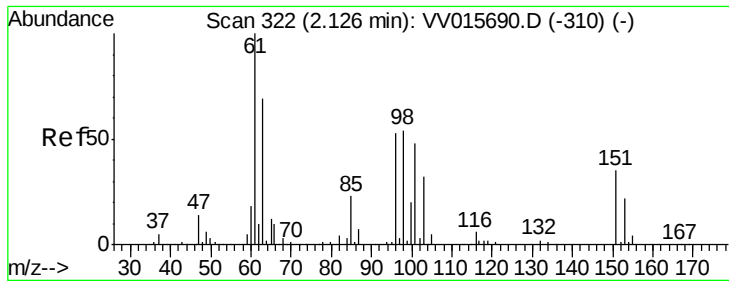
50000

0

1.30 1.35 1.40 1.45 1.50

Time-->

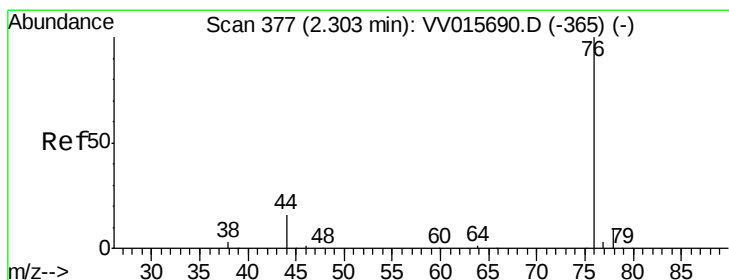
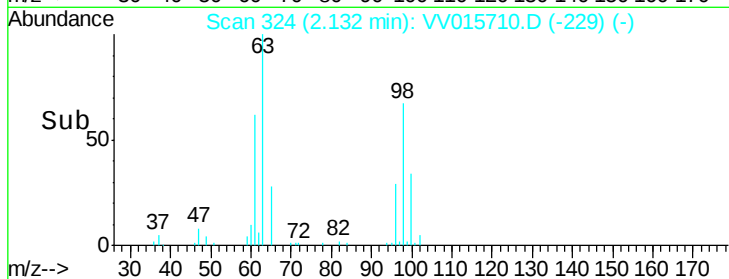
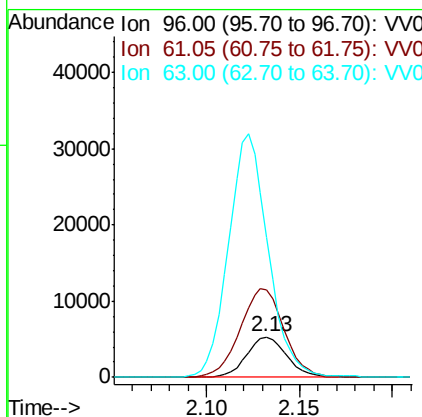
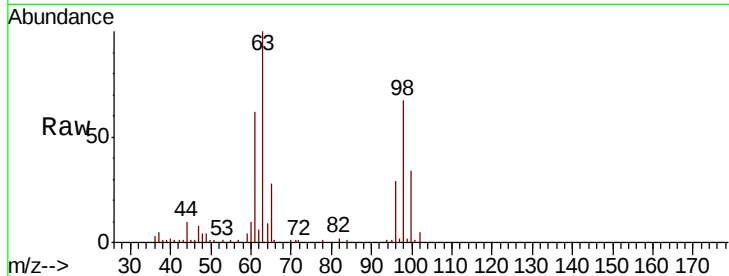




#12
 1,1-Dichloroethene
 Concen: 1.117 ug/L
 RT: 2.13 min Scan# 324
 Delta R.T. 0.01 min
 Lab File: VV015710.D
 Acq: 25 Apr 2020 21:44

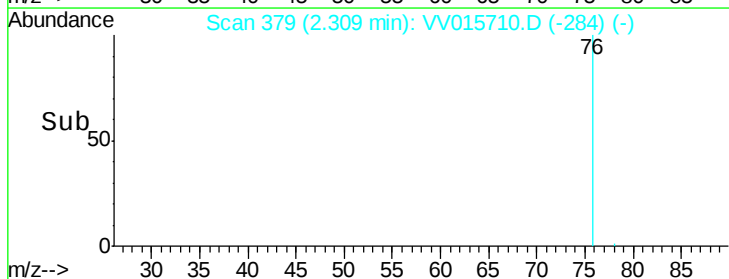
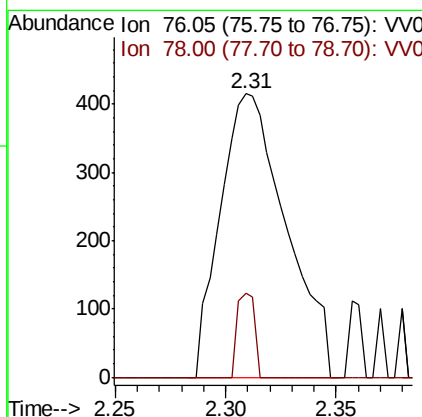
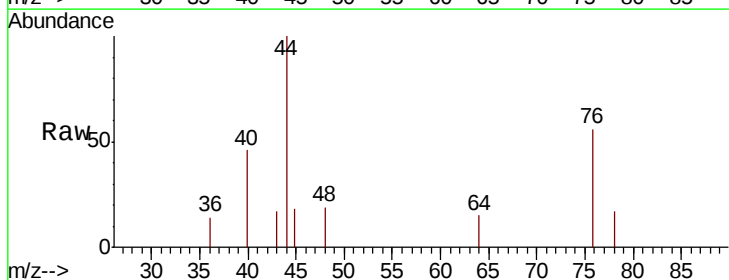
Instrument :
 MSVOA_V
 ClientSampleId :

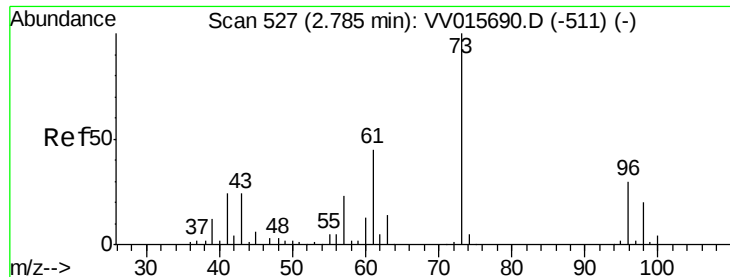
Tot Ion: 96 Resp: 7857
 Ion Ratio Lower Upper
 96 100
 61 216.9 130.1 241.7
 63 348.0 91.4 169.8#



#14
 Carbon disulfide
 Concen: 0.043 ug/L
 RT: 2.31 min Scan# 379
 Delta R.T. 0.01 min
 Lab File: VV015710.D
 Acq: 25 Apr 2020 21:44

Tgt Ion: 76 Resp: 858
 Ion Ratio Lower Upper
 76 100
 78 29.6 7.4 11.0#

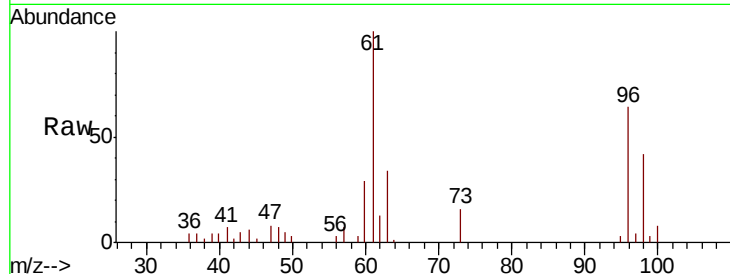




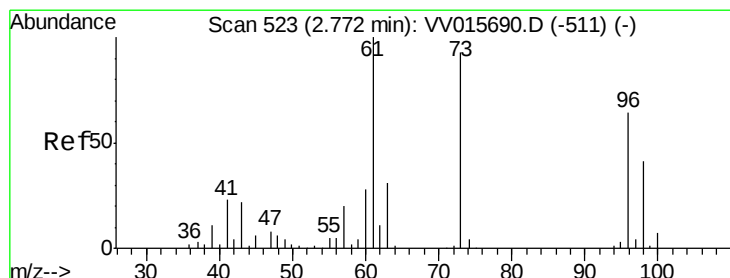
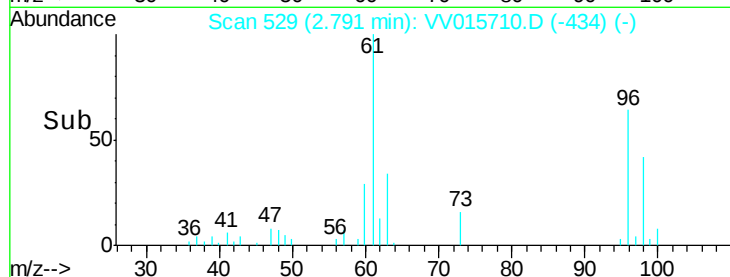
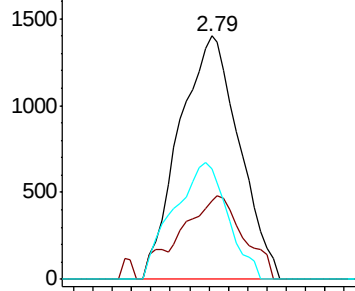
#17
Methvl tert-butvl Ether
Concen: 0.153 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.01 min
Lab File: VV015710.D
Acq: 25 Apr 2020 21:44

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 73 Resp: 3019
Ion Ratio Lower Upper
73 100
43 35.8 20.1 30.1#
57 43.4 17.8 26.8#

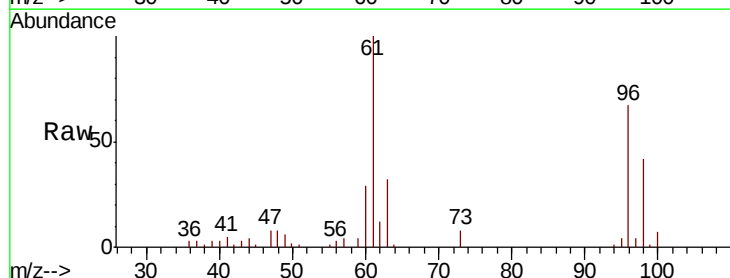


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

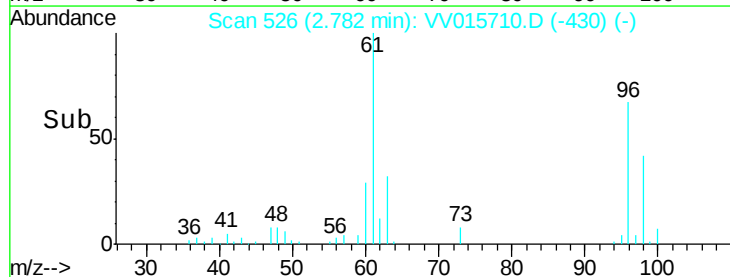
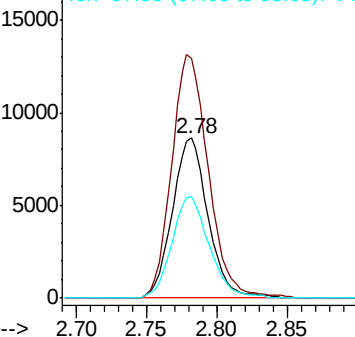


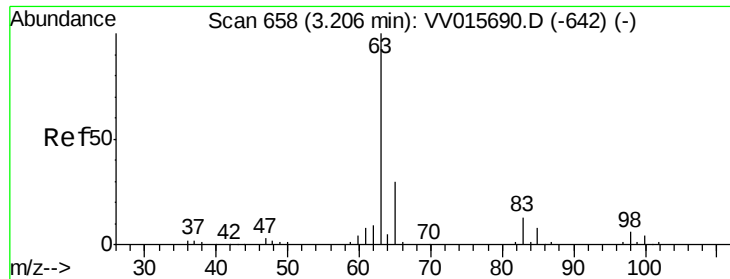
#18
trans-1,2-Dichloroethene
Concen: 1.938 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.01 min
Lab File: VV015710.D
Acq: 25 Apr 2020 21:44

Tgt Ion: 96 Resp: 15269
Ion Ratio Lower Upper
96 100
61 149.9 105.5 195.9
98 63.4 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

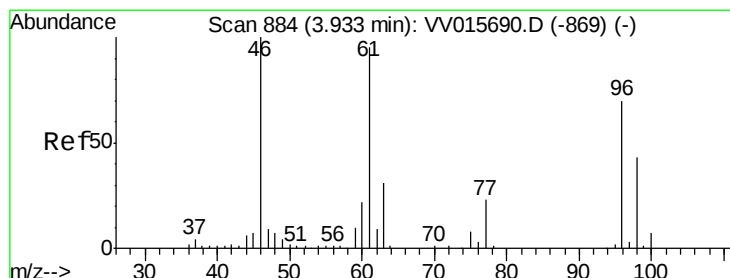
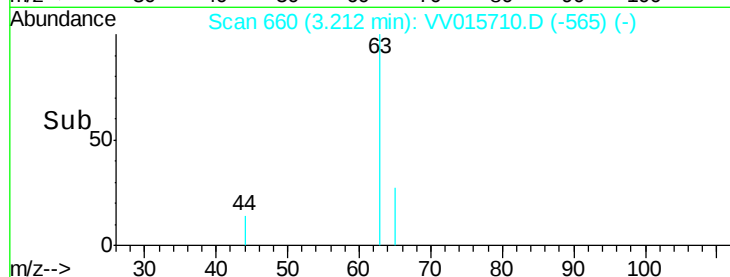
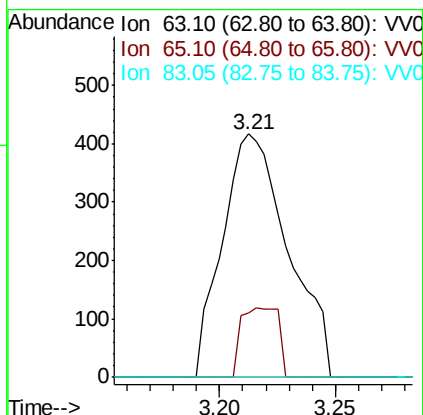
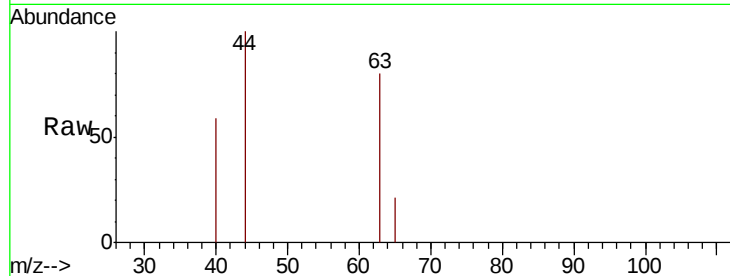




#19
 1,1-Dichloroethane
 Concen: 0.053 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.01 min
 Lab File: VV015710.D
 Acq: 25 Apr 2020 21:44

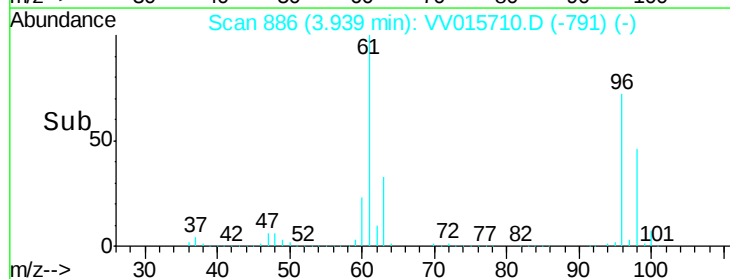
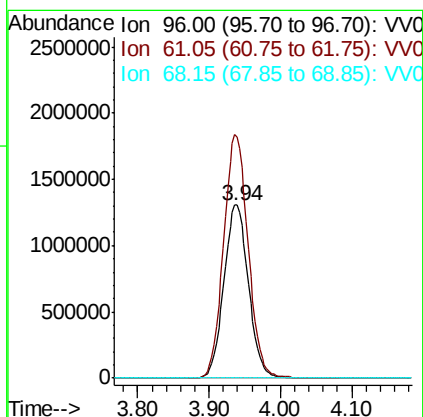
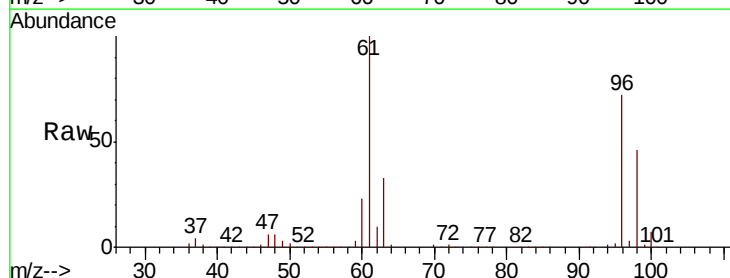
Instrument :
 MSVOA_V
 ClientSampled :

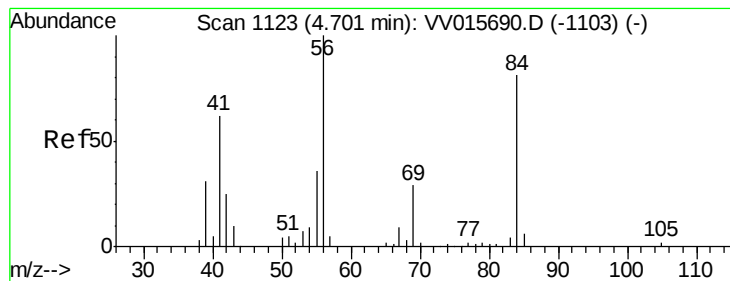
Tot Ion: 63 Resp: 823
 Ion Ratio Lower Upper
 63 100
 65 26.6 22.3 41.3
 83 0.0 9.3 17.3#



#22
 cis-1,2-Dichloroethene
 Concen: 359.595 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.01 min
 Lab File: VV015710.D
 Acq: 25 Apr 2020 21:44

Tgt Ion: 96 Resp: 3131876
 Ion Ratio Lower Upper
 96 100
 61 139.4 96.4 179.0
 68 0.0 0.0 0.0





#30

Cyclohexane

Concen: 0.181 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV015710.D

Acq: 25 Apr 2020 21:44

Instrument :
MSVOA_V
ClientSampleId :

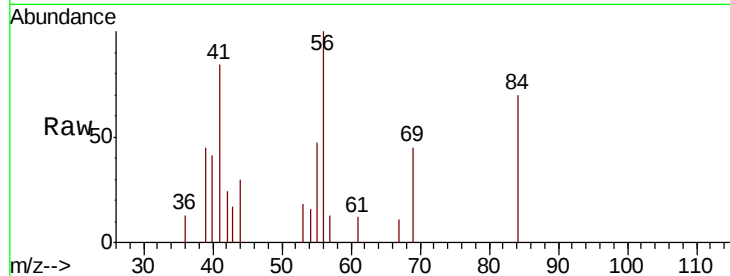
Tot Ion: 56 Resp: 2595

Ion Ratio Lower Upper

56 100

69 30.7 23.9 35.9

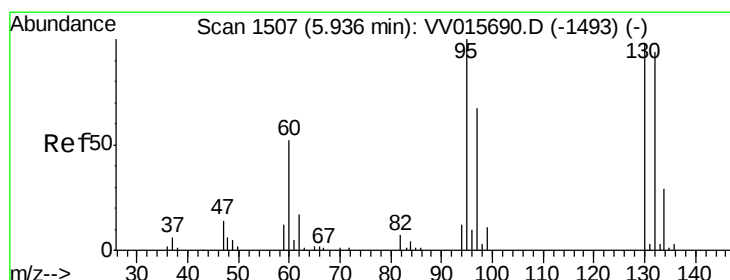
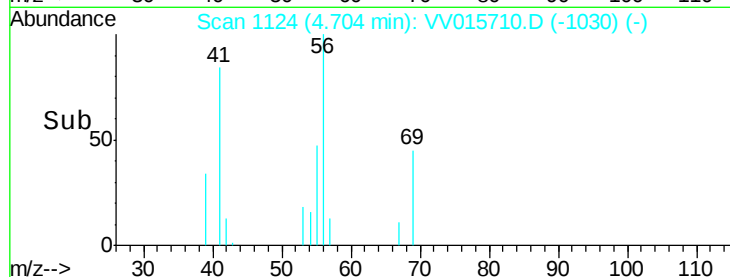
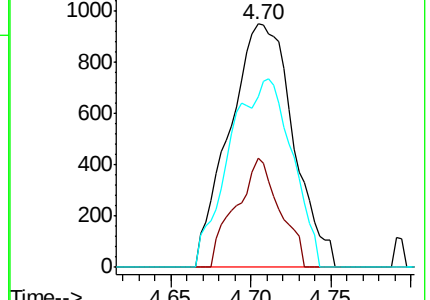
84 76.1 66.9 100.3



Abundance Ion 56.10 (55.80 to 56.80): VV015710.D (-1103) (-)

Ion 69.15 (68.85 to 69.85): VV015710.D (-1103) (-)

Ion 84.15 (83.85 to 84.85): VV015710.D (-1103) (-)



#34

Trichloroethene

Concen: 233.661 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV015710.D

Acq: 25 Apr 2020 21:44

Tgt Ion: 95 Resp: 2185121

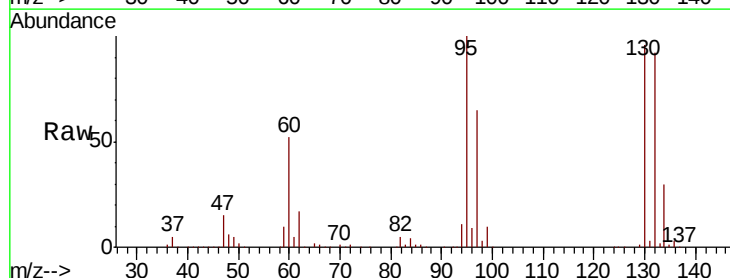
Ion Ratio Lower Upper

95 100

97 65.0 44.7 82.9

132 91.8 65.2 121.0

130 95.7 65.0 120.6

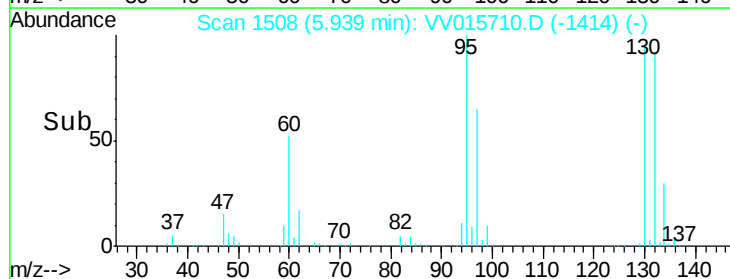
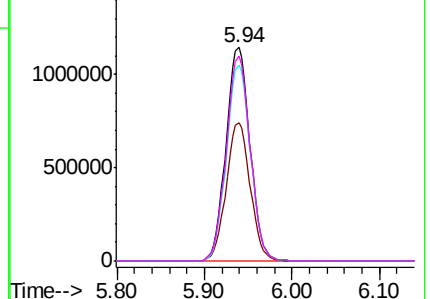


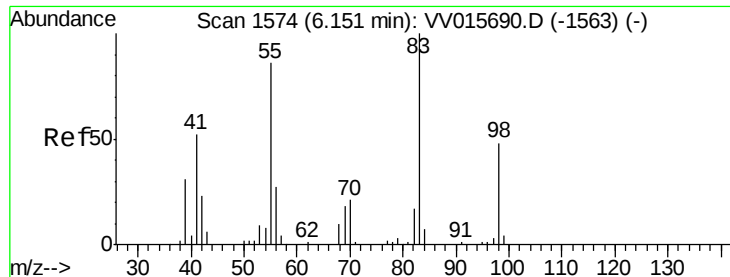
Abundance Ion 95.00 (94.70 to 95.70): VV015710.D (-1493) (-)

Ion 96.95 (96.65 to 97.65): VV015710.D (-1493) (-)

Ion 131.95 (131.65 to 132.65): VV015710.D (-1493) (-)

Ion 129.95 (129.65 to 130.65): VV015710.D (-1493) (-)

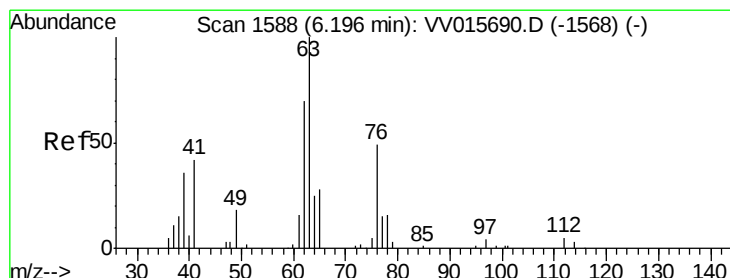
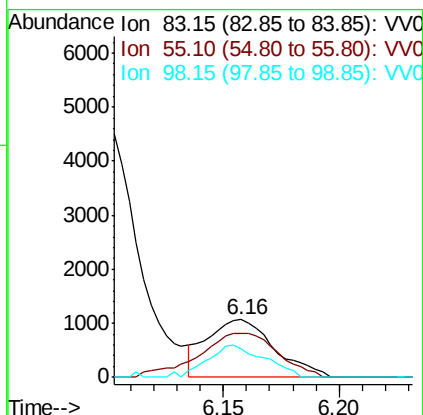
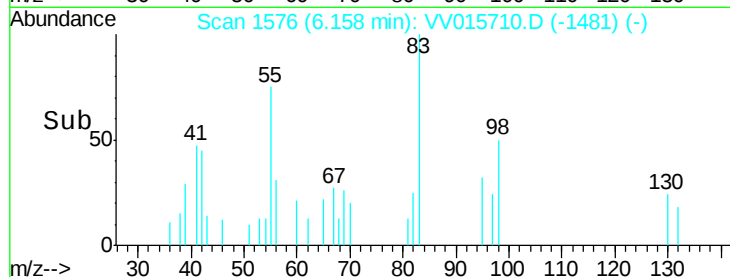
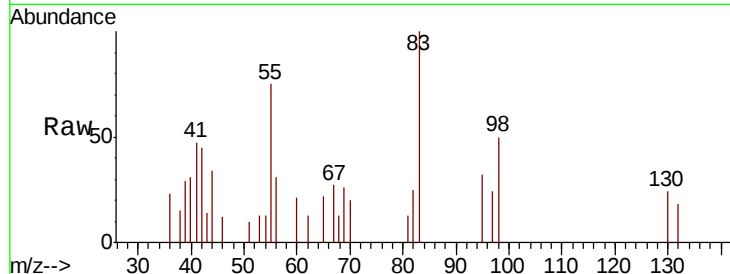




#35
Methvlcvclohexane
Concen: 0.150 ug/L
RT: 6.16 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VV015710.D
Acq: 25 Apr 2020 21:44

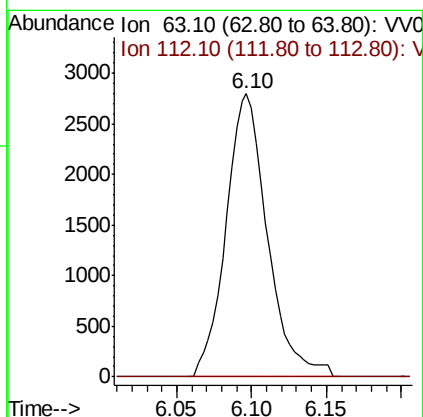
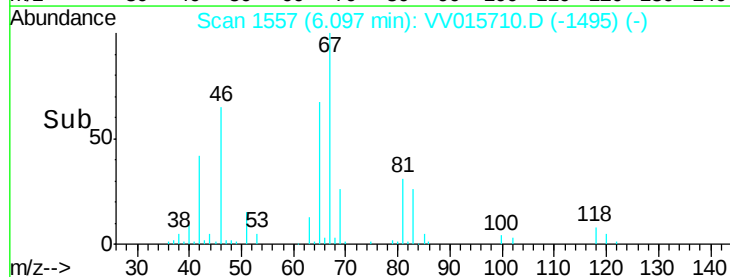
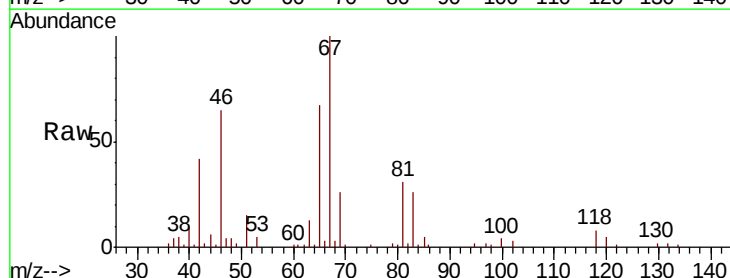
Instrument :
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ClientSampleId :

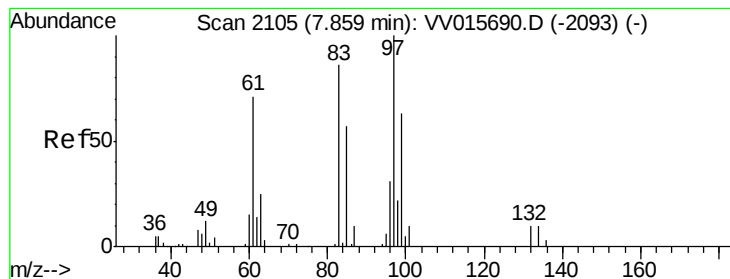
Tot Ion: 83 Resp: 2150
Ion Ratio Lower Upper
83 100
55 89.7 66.6 99.8
98 0.0 39.5 59.3#



#37
1,2-Dichloropropane
Concen: 0.626 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV015710.D
Acq: 25 Apr 2020 21:44

Tgt Ion: 63 Resp: 5388
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#





#45

1,1,2-Trichloroethane

Concen: 9.620 ug/L

RT: 8.00 min Scan# 2150

Delta R.T. 0.14 min

Lab File: VV015710.D

Acq: 25 Apr 2020 21:44

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 97 Resp: 56439

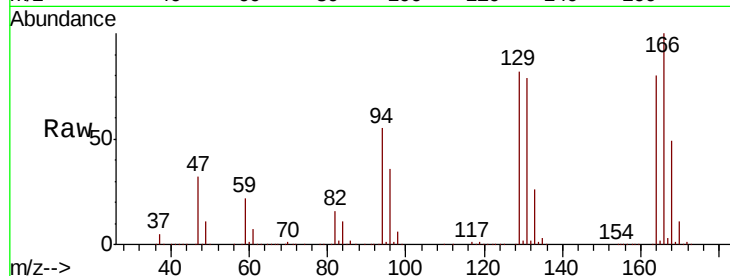
Ion Ratio Lower Upper

97 100

99 15.7 45.4 84.4#

83 275.0 61.3 113.9#

85 39.3 38.4 71.4



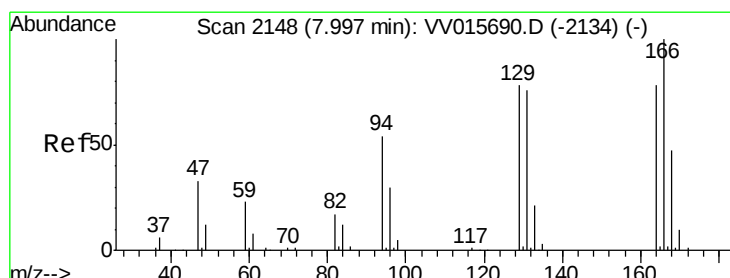
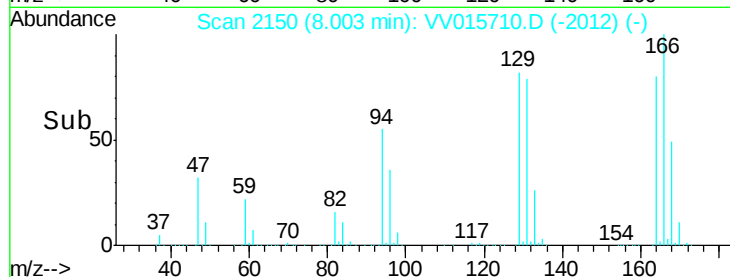
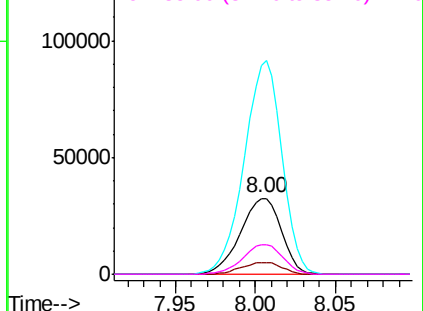
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 839.692 ug/L

RT: 8.01 min Scan# 2151

Delta R.T. 0.01 min

Lab File: VV015710.D

Acq: 25 Apr 2020 21:44

Tgt Ion:164 Resp: 5654013

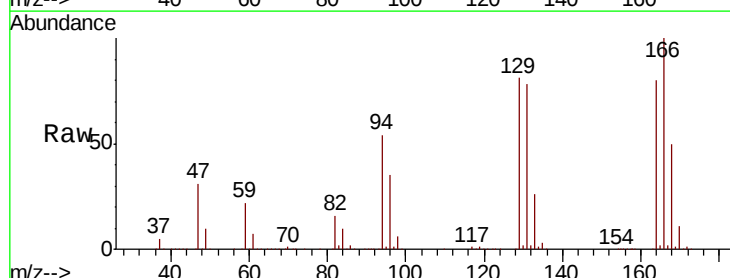
Ion Ratio Lower Upper

164 100

129 101.4 66.7 123.9

131 97.9 66.6 123.6

166 125.5 85.3 158.5



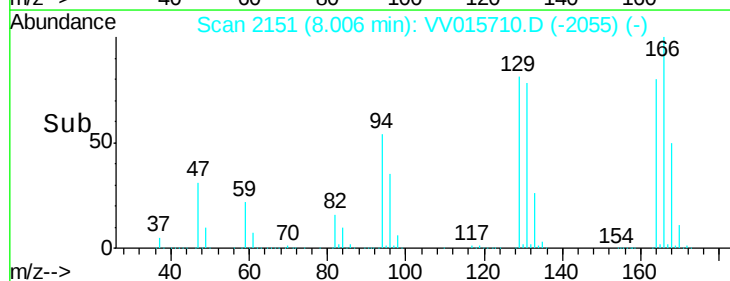
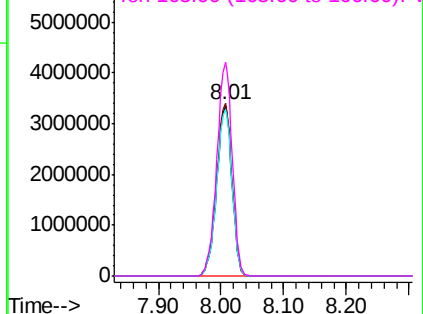
Abundance

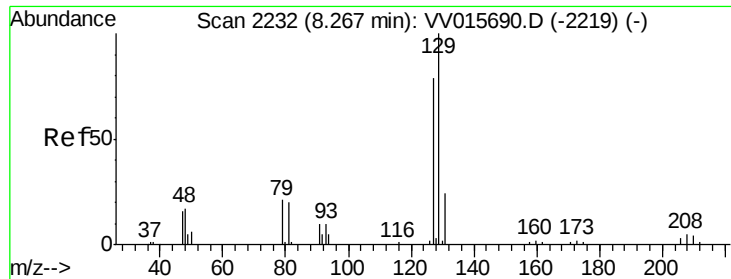
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V





#49

Dibromochloromethane

Concen: 929.530 ug/L

RT: 8.01 min Scan# 2151

Delta R.T. -0.26 min

Lab File: VV015710.D

Acq: 25 Apr 2020 21:44

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:129 Resp: 5643651

Ion Ratio Lower Upper

129 100

127 0.0 52.6 97.8#

