

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081420\
 Data File : VV018010.D
 Acq On : 14 Aug 2020 20:33
 Operator : SY/MD
 Sample : L3665-18
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 F4L38

Quant Time: Aug 17 01:40:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 17 01:31:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	237027	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	235308	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	112703	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	57189	31.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	63.24%
7) Chloroethane-d5	1.58	69	53896	36.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	72.86%
11) 1,1-Dichloroethene-d2	2.12	63	92729	26.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	53.62%#
21) 2-Butanone-d5	3.91	46	131226	110.79	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.79%
24) Chloroform-d	4.38	84	139765	42.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.90%
26) 1,2-Dichloroethane-d4	5.06	65	98293	45.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.94%
32) Benzene-d6	5.08	84	263546	40.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.28%
36) 1,2-Dichloropropane-d6	6.09	67	94719	44.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.36%
41) Toluene-d8	7.34	98	229612	39.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	78.74%#
43) trans-1,3-Dichloropropene-	7.64	79	40897	42.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.06%
47) 2-Hexanone-d5	8.11	63	65342	96.04	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.04%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	132623	48.04	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.08%
64) 1,2-Dichlorobenzene-d4	11.65	152	108421	48.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	359087	170.496	ug/L	99
12) 1,1-Dichloroethene	2.13	96	5813	3.656	ug/L #	1
13) Acetone	2.18	43	1399	1.144	ug/L	98
17) trans-1,2-Dichloroethene	2.78	96	182019	111.368	ug/L	99
18) Methyl tert-butyl Ether	2.79	73	9080	1.680	ug/L #	75
20) cis-1,2-Dichloroethene	3.94	96	7615549	4240.167	ug/L	94
25) Chloroform	4.40	83	2887	0.861	ug/L	87
29) Cyclohexane	4.71	56	3484	1.227	ug/L	96
33) Benzene	5.13	78	8548	1.174	ug/L	100
34) Trichloroethene	5.94	95	3679677	1912.188	ug/L	99
35) Methylcyclohexane	6.15	83	1850	0.647	ug/L	99
37) 1,2-Dichloropropane	6.09	63	10319	5.198	ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	2290	0.814	ug/L #	50
45) 1,1,2-Trichloroethane	7.99	97	2152	1.170	ug/L #	1
46) Tetrachloroethene	8.00	164	243887	172.812	ug/L	99
48) 2-Hexanone	8.11	43	8152	3.895	ug/L #	73
59) 1,2,3-Trichloropropane	11.27	75	13222	5.392	ug/L	93

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Quant Time: Aug 17 01:40:02 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081120WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Aug 17 01:31:40 2020
Response via : Initial Calibration

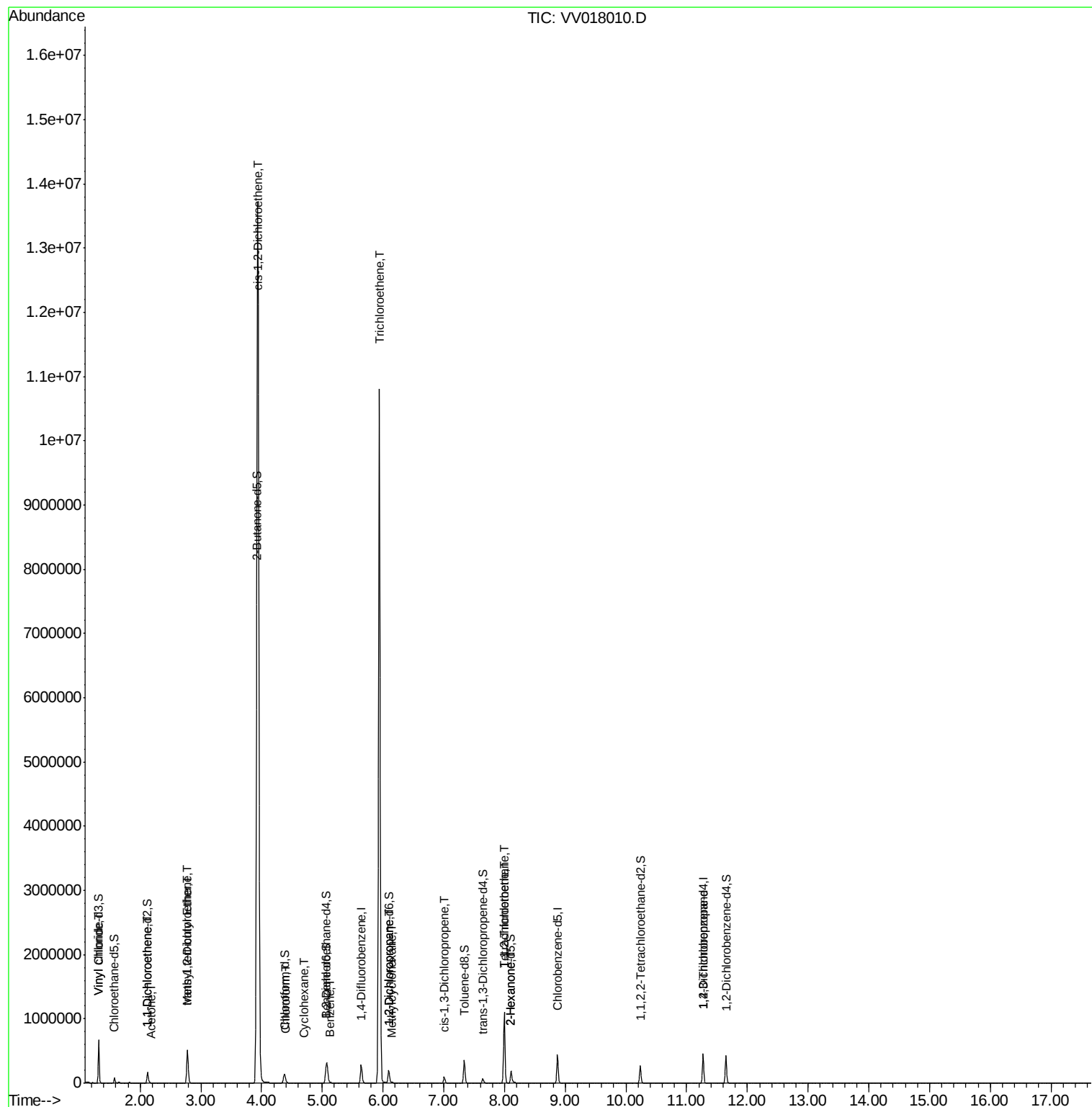
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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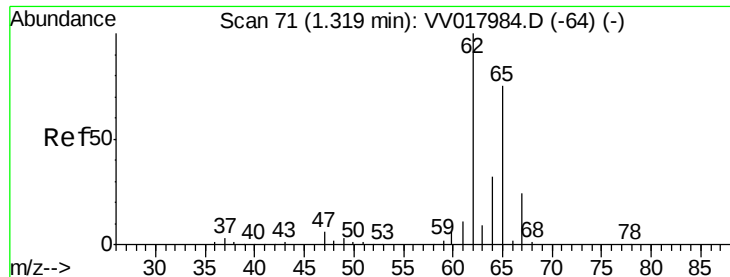
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 170.496 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV018010.D

Acq: 14 Aug 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

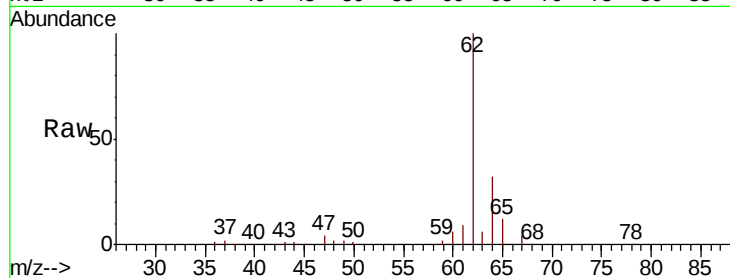
F4L38

Tot Ion: 62 Resp: 359087

Ion Ratio Lower Upper

62 100

64 32.4 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

400000

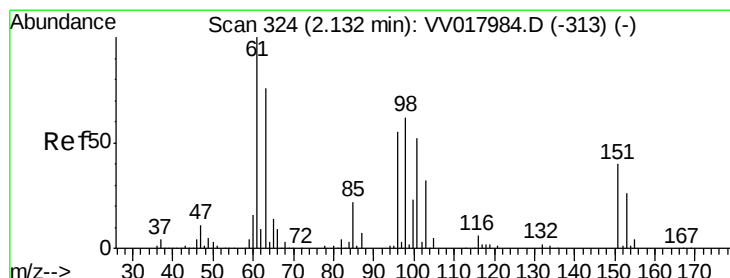
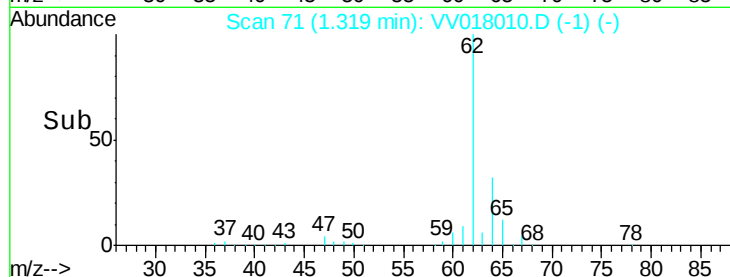
300000

200000

100000

0

Time--> 1.25 1.30 1.35 1.40



#12

1,1-Dichloroethene

Concen: 3.656 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018010.D

Acq: 14 Aug 2020 20:33

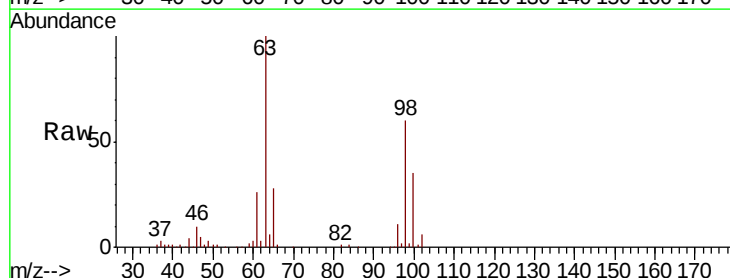
Tgt Ion: 96 Resp: 5813

Ion Ratio Lower Upper

96 100

61 241.5 127.1 236.0#

63 931.0 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

80000

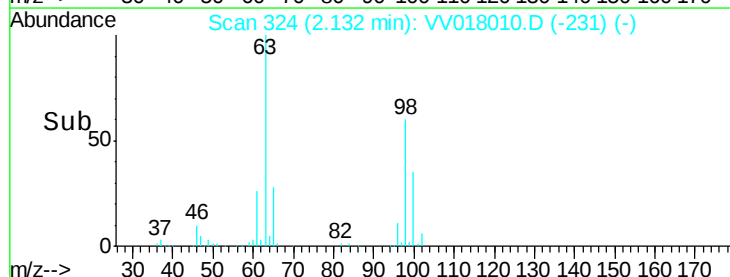
60000

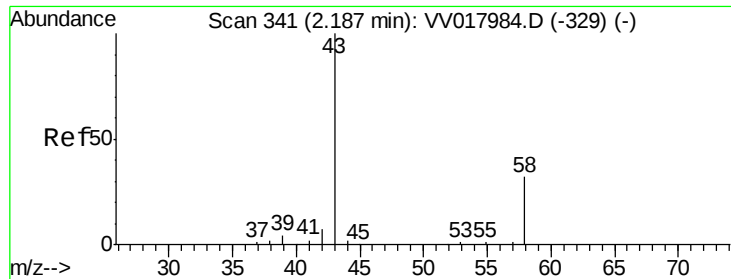
40000

20000

0

Time--> 2.10 2.15





#13

Acetone

Concen: 1.144 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV018010.D

Acq: 14 Aug 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

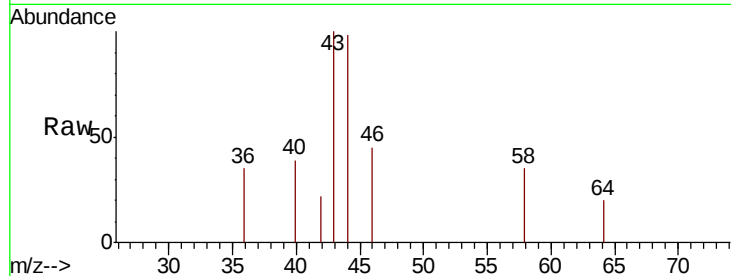
F4L38

Tot Ion: 43 Resp: 1399

Ion Ratio Lower Upper

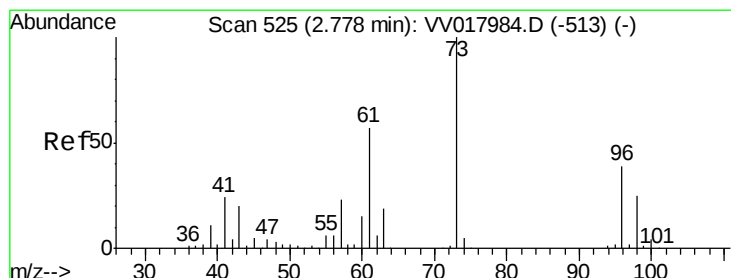
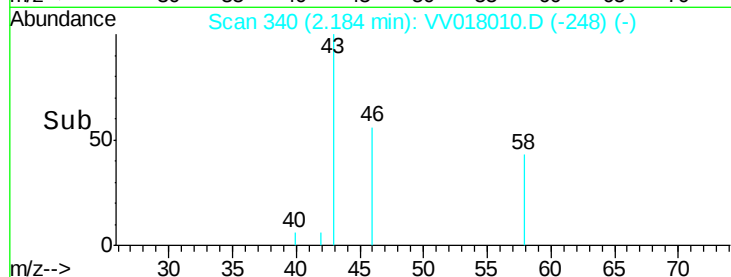
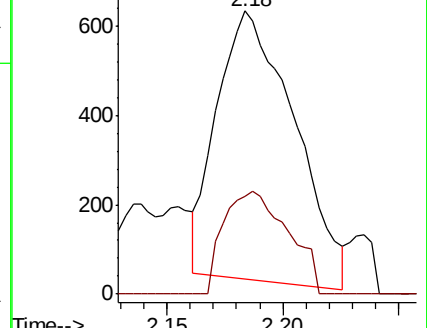
43 100

58 30.6 0.0 63.6



Abundance Ion 43.00 (42.70 to 43.70): VV017984.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV017984.D (-329) (-)



#17

trans-1,2-Dichloroethene

Concen: 111.368 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV018010.D

Acq: 14 Aug 2020 20:33

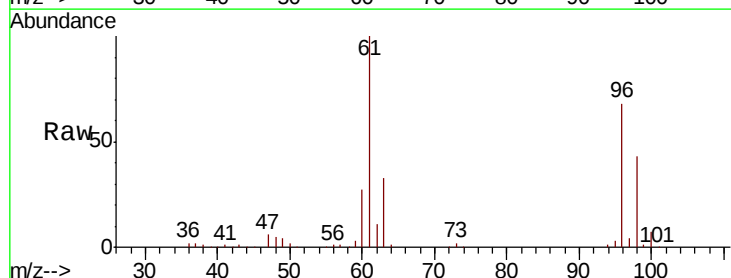
Tgt Ion: 96 Resp: 182019

Ion Ratio Lower Upper

96 100

61 147.4 102.4 190.2

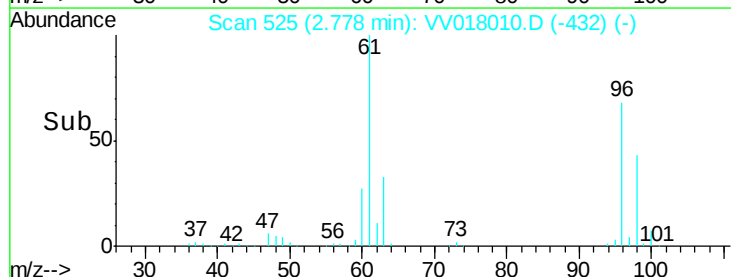
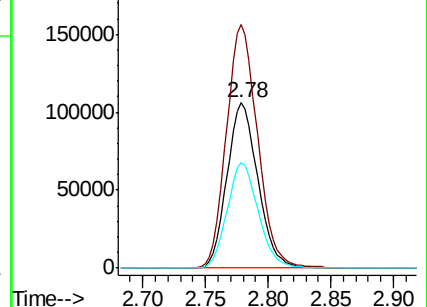
98 64.0 44.4 82.5

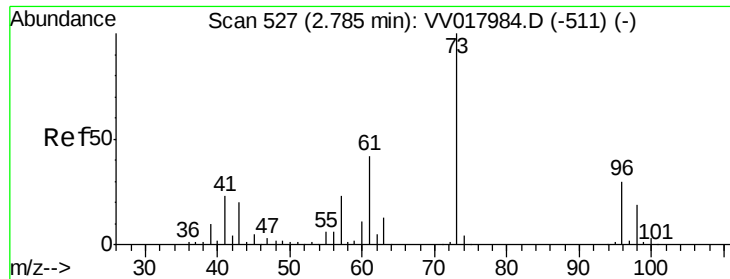


Abundance Ion 96.00 (95.70 to 96.70): VV017984.D (-513) (-)

Ion 61.00 (60.70 to 61.70): VV017984.D (-513) (-)

Ion 98.00 (97.70 to 98.70): VV017984.D (-513) (-)

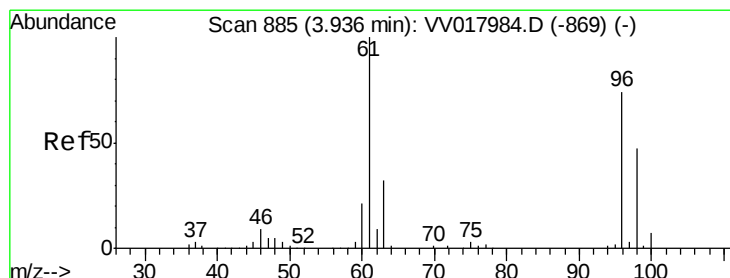
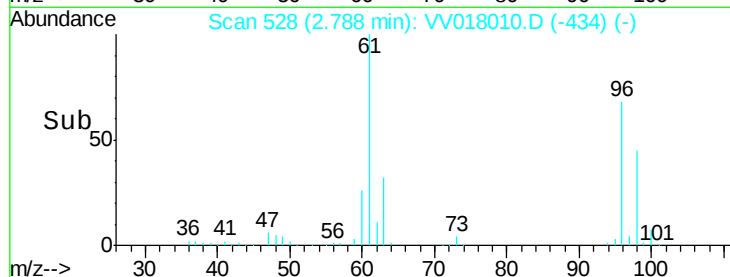
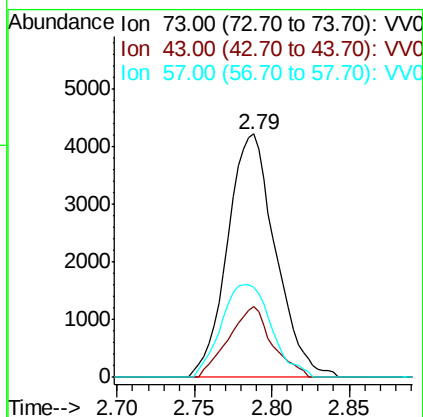
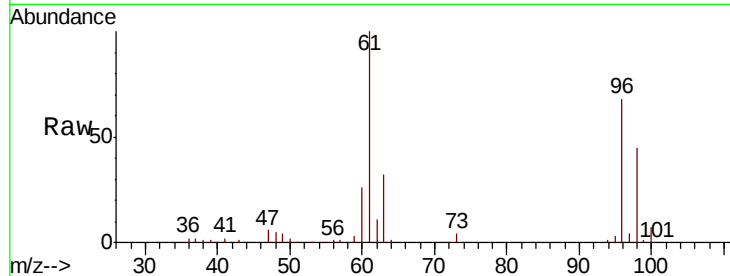




#18
Methvl tert-butvl Ether
Concen: 1.680 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV018010.D
Acq: 14 Aug 2020 20:33

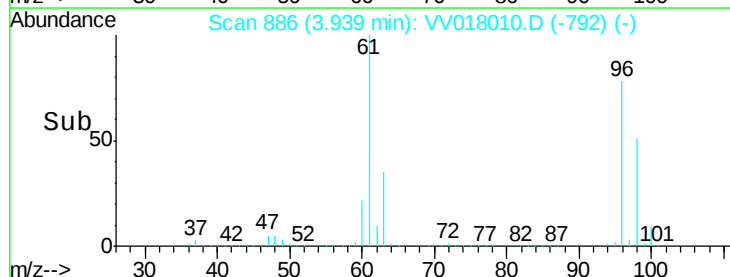
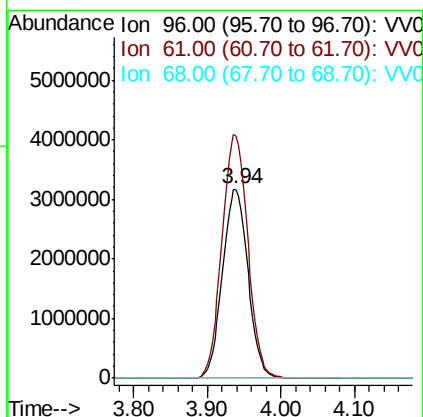
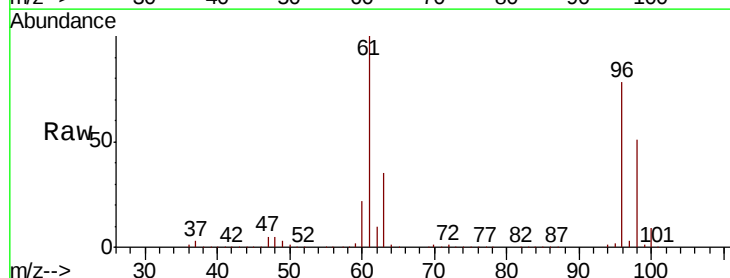
Instrument :
MSVOA_V
ClientSampled :
F4L38

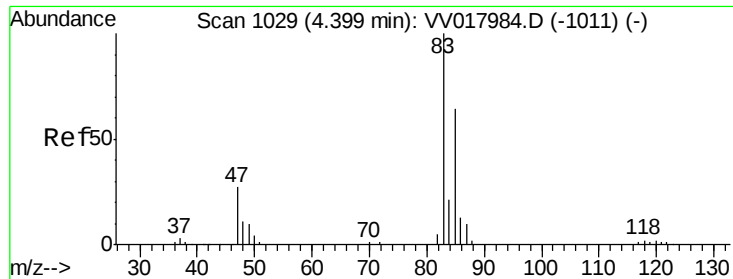
Tot Ion: 73 Resp: 9080
Ion Ratio Lower Upper
73 100
43 26.2 15.9 23.9#
57 39.8 18.1 27.1#



#20
cis-1,2-Dichloroethene
Concen: 4240.167 ug/L
RT: 3.94 min Scan# 886
Delta R.T. 0.00 min
Lab File: VV018010.D
Acq: 14 Aug 2020 20:33

Tgt Ion: 96 Resp: 7615549
Ion Ratio Lower Upper
96 100
61 128.5 95.0 176.4
68 0.0 0.0 0.0

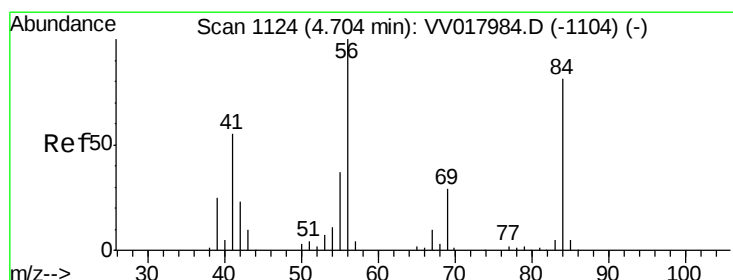
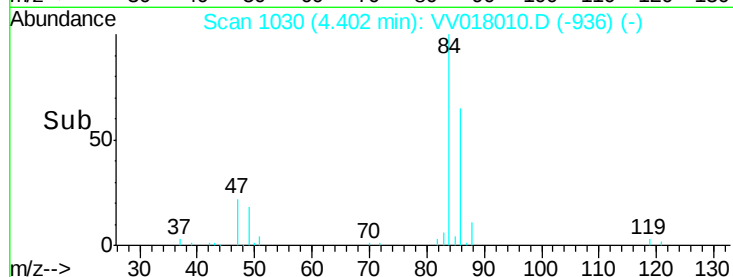
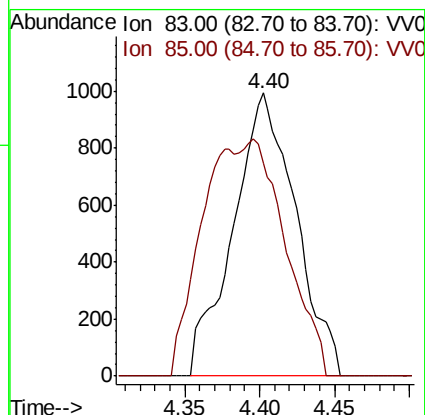
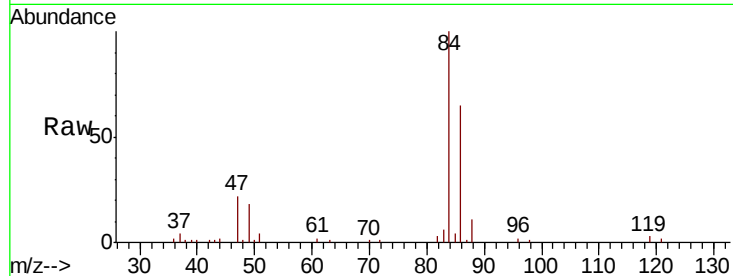




#25
Chloroform
Concen: 0.861 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV018010.D
Acq: 14 Aug 2020 20:33

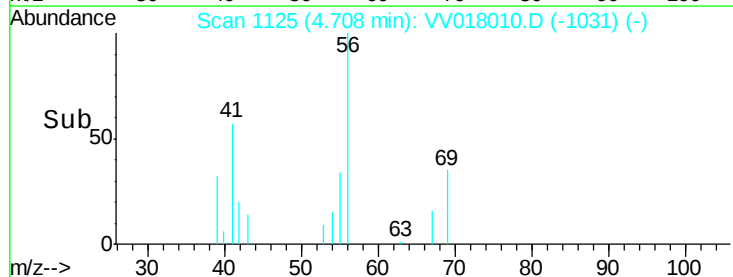
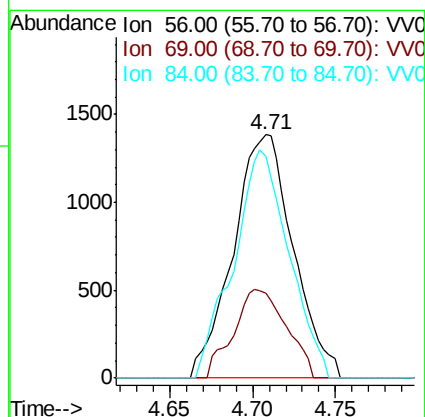
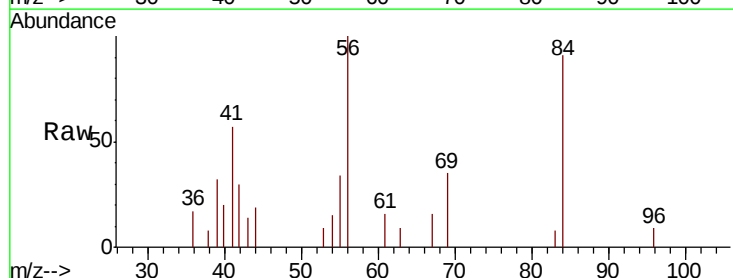
Instrument :
MSVOA_V
ClientSampled :
F4L38

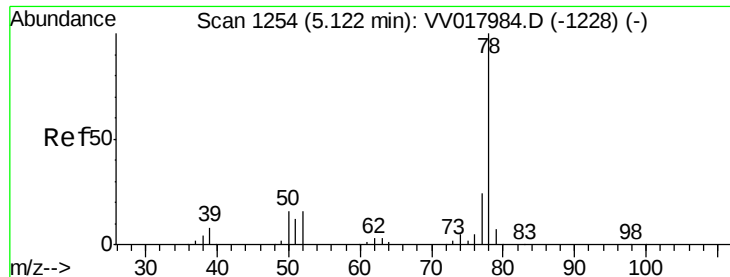
Tot Ion: 83 Resp: 2887
Ion Ratio Lower Upper
83 100
85 75.2 45.5 84.5



#29
Cyclohexane
Concen: 1.227 ug/L
RT: 4.71 min Scan# 1125
Delta R.T. 0.00 min
Lab File: VV018010.D
Acq: 14 Aug 2020 20:33

Tgt Ion: 56 Resp: 3484
Ion Ratio Lower Upper
56 100
69 31.9 23.8 35.8
84 86.6 66.8 100.2





#33

Benzene

Concen: 1.174 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV018010.D

Acq: 14 Aug 2020 20:33

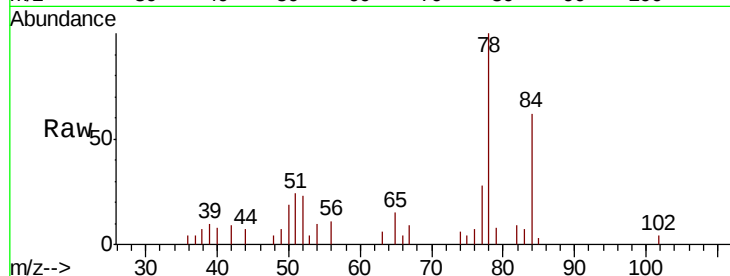
Instrument :

MSVOA_V

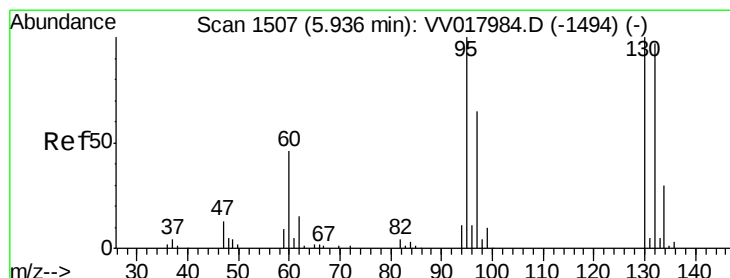
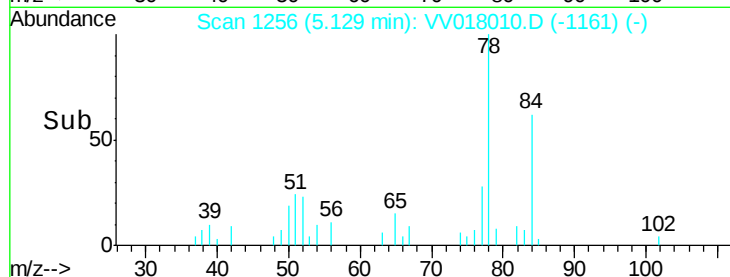
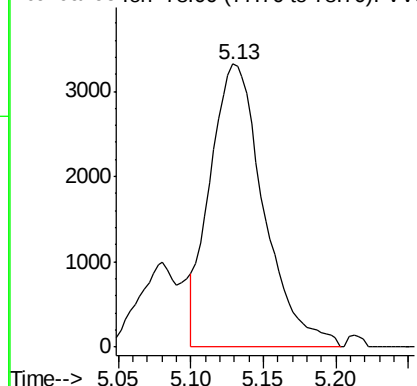
ClientSampled :

F4L38

Tgt Ion: 78 Resp: 8548



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 1912.188 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV018010.D

Acq: 14 Aug 2020 20:33

Tgt Ion: 95 Resp: 3679677

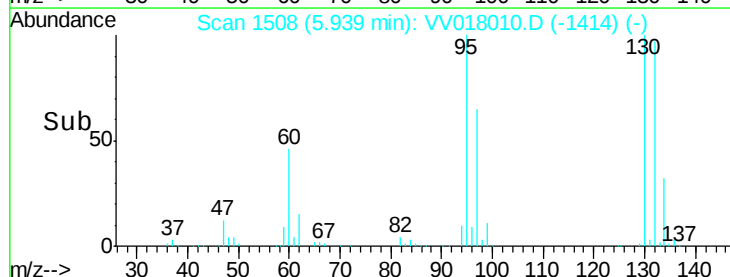
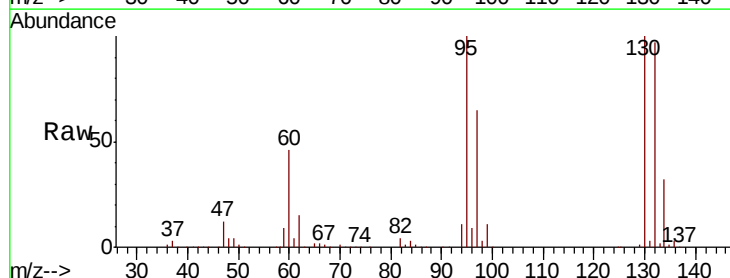
Ion	Ratio	Lower	Upper
95	100		
97	65.2	46.0	85.4
132	96.5	65.8	122.2
130	99.9	69.2	128.6

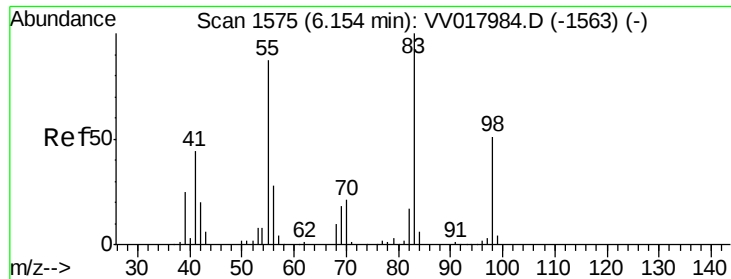
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

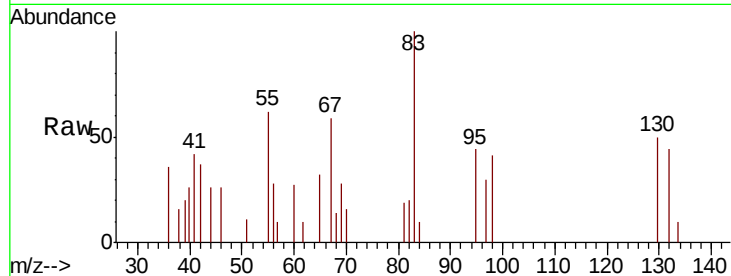




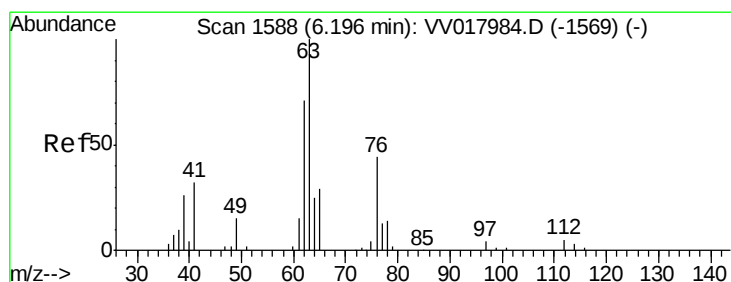
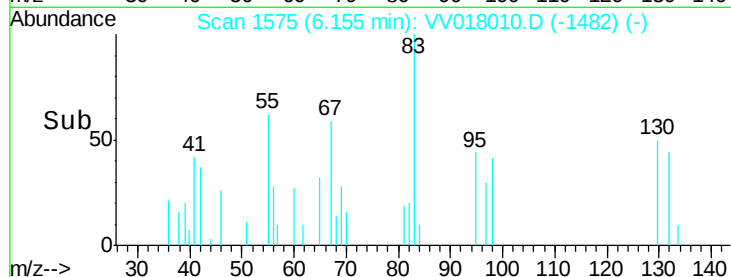
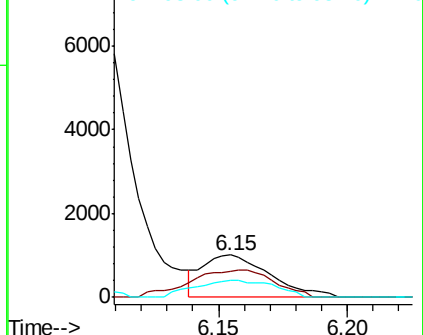
#35
Methvlcvclohexane
Concen: 0.647 ug/L
RT: 6.15 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VV018010.D
Acq: 14 Aug 2020 20:33

Instrument :
MSVOA_V
ClientSampleId :
F4L38

Tot Ion: 83 Resp: 1850
Ion Ratio Lower Upper
83 100
55 81.1 64.9 97.3
98 46.8 38.7 58.1

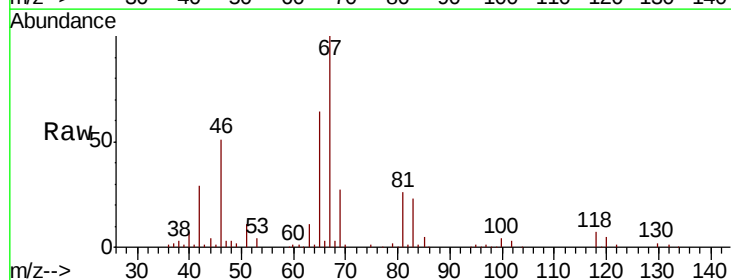


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

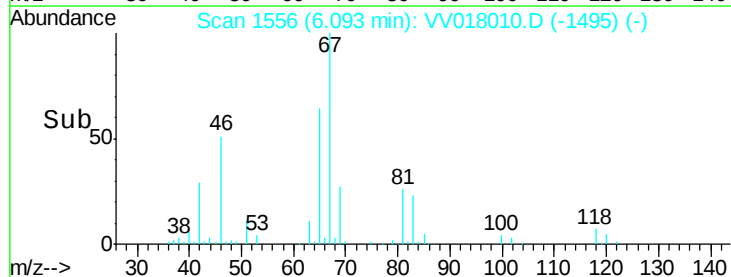
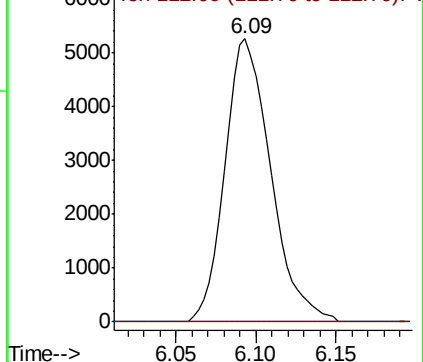


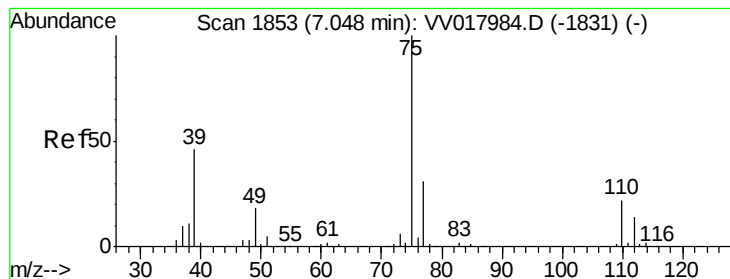
#37
1,2-Dichloropropane
Concen: 5.198 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.10 min
Lab File: VV018010.D
Acq: 14 Aug 2020 20:33

Tgt Ion: 63 Resp: 10319
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V



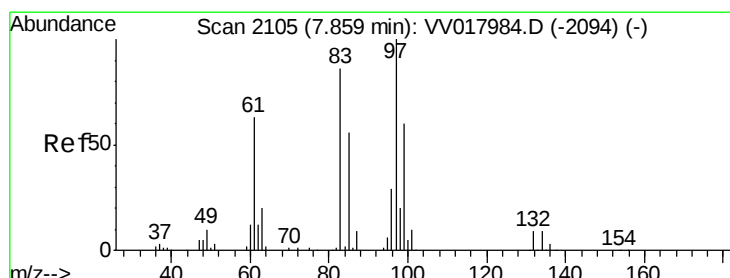
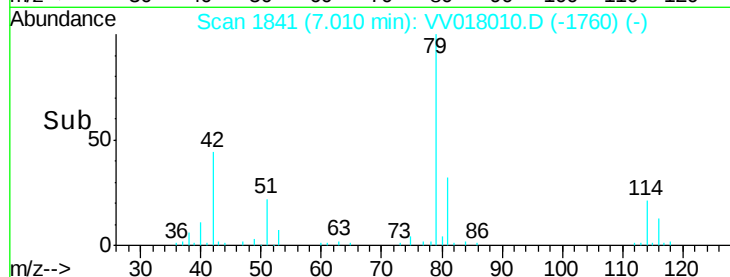
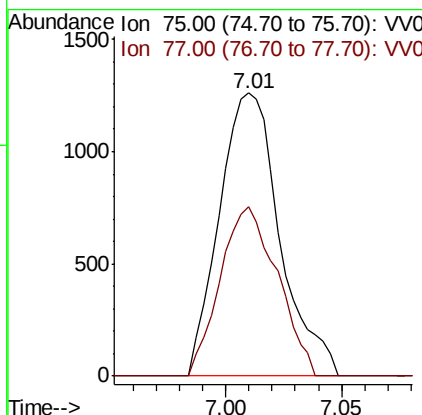
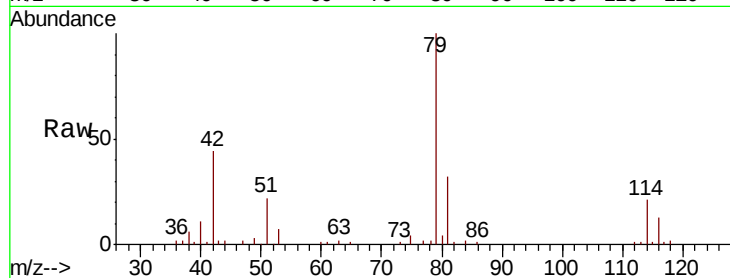


#39

cis-1,3-Dichloropropene
Concen: 0.814 ug/L
RT: 7.01 min Scan# 1841
Delta R.T. -0.04 min
Lab File: VV018010.D
Acq: 14 Aug 2020 20:33

Instrument :
MSVOA_V
ClientSampled :
F4L38

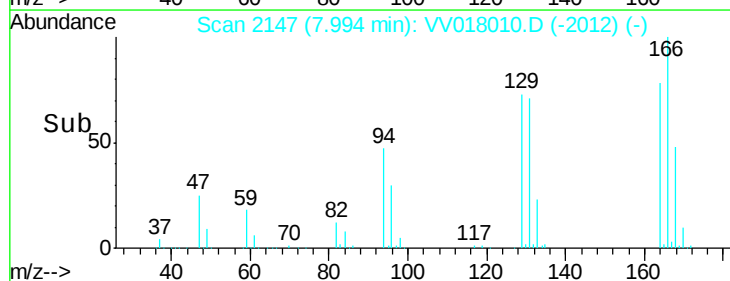
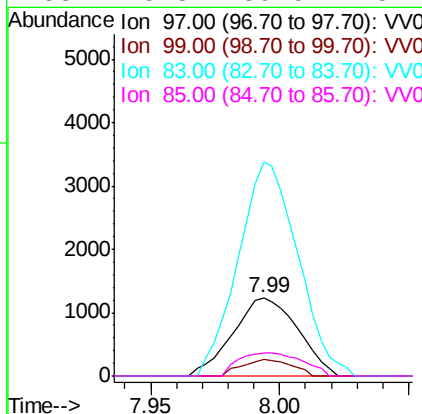
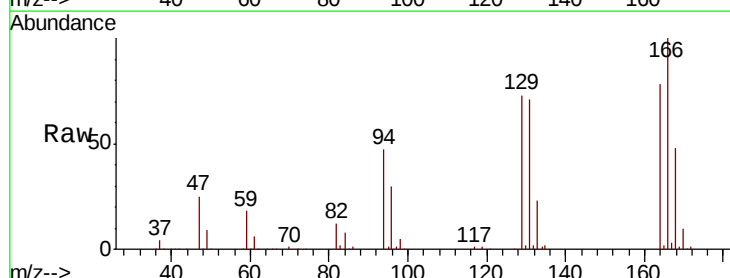
Tot Ion: 75 Resp: 2290
Ion Ratio Lower Upper
75 100
77 59.6 22.3 41.5#

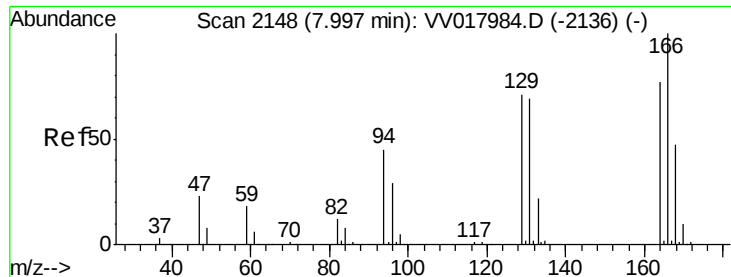


#45

1,1,2-Trichloroethane
Concen: 1.170 ug/L
RT: 7.99 min Scan# 2147
Delta R.T. 0.14 min
Lab File: VV018010.D
Acq: 14 Aug 2020 20:33

Tgt Ion: 97 Resp: 2152
Ion Ratio Lower Upper
97 100
99 20.7 44.2 82.2#
83 272.5 61.0 113.4#
85 28.8 39.5 73.4#

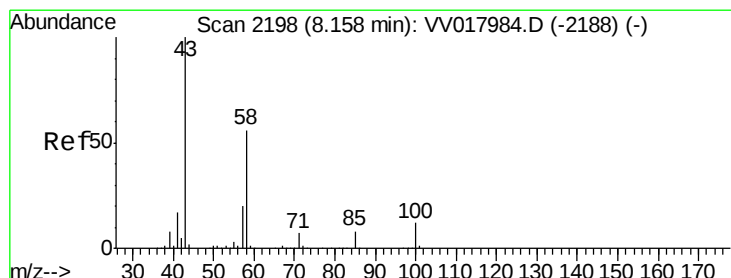
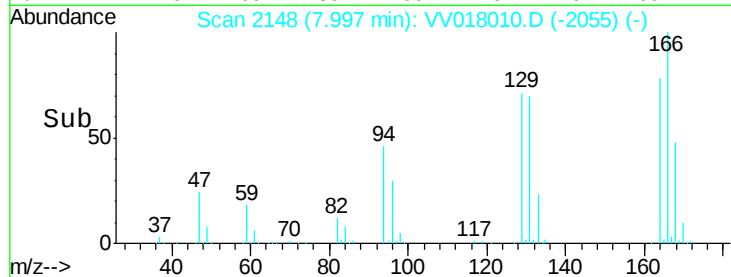
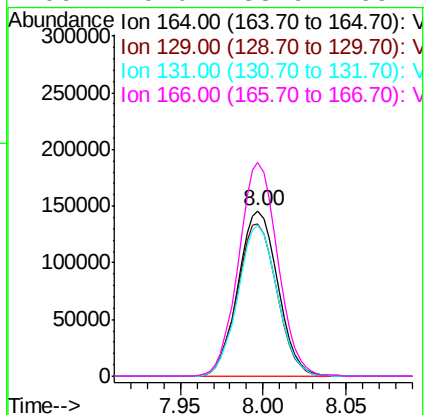
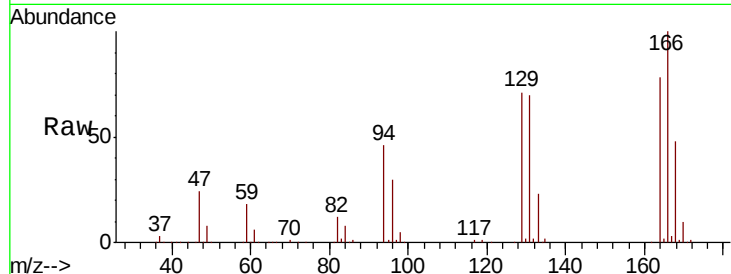




#46
Tetrachloroethene
Concen: 172.812 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. 0.00 min
Lab File: VV018010.D
Acq: 14 Aug 2020 20:33

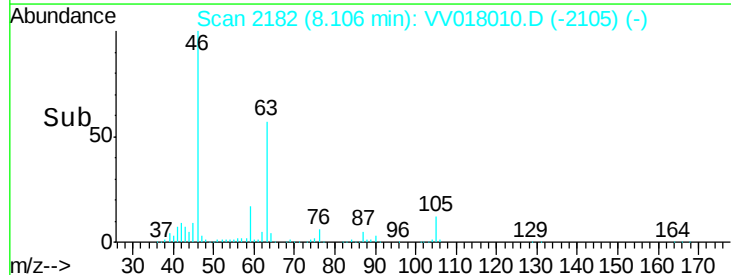
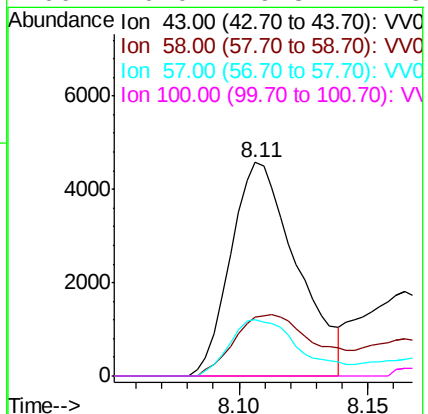
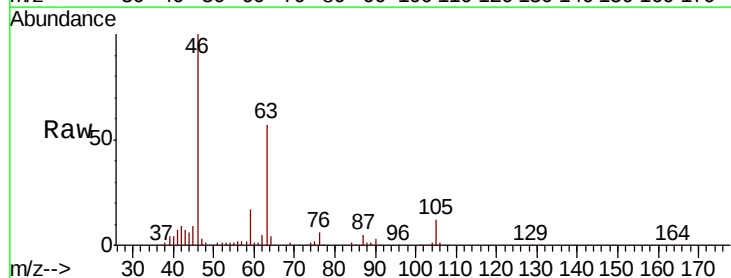
Instrument :
MSVOA_V
ClientSampleId :
F4L38

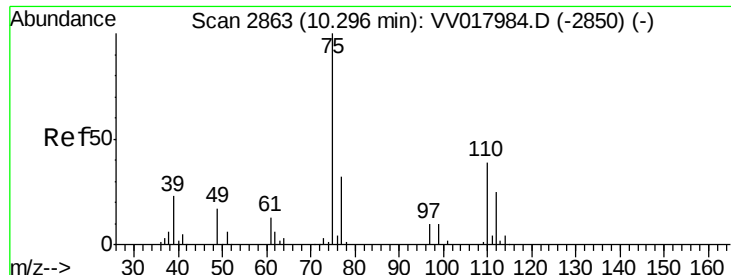
Tot Ion	Ratio	Lower	Upper
164	100		
129	92.2	64.8	120.3
131	90.8	64.5	119.9
166	129.0	88.9	165.1



#48
2-Hexanone
Concen: 3.895 ug/L
RT: 8.11 min Scan# 2182
Delta R.T. -0.05 min
Lab File: VV018010.D
Acq: 14 Aug 2020 20:33

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.0	44.4	66.6#
57	28.6	15.2	22.8#
100	0.0	9.8	14.6#





#59

1,2,3-Trichloropropane

Concen: 5.392 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.97 min

Lab File: VV018010.D

Acq: 14 Aug 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

F4L38

Tot Ion: 75 Resp: 13222

Ion Ratio Lower Upper

75 100

77 36.2 25.7 38.5

