

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121318\

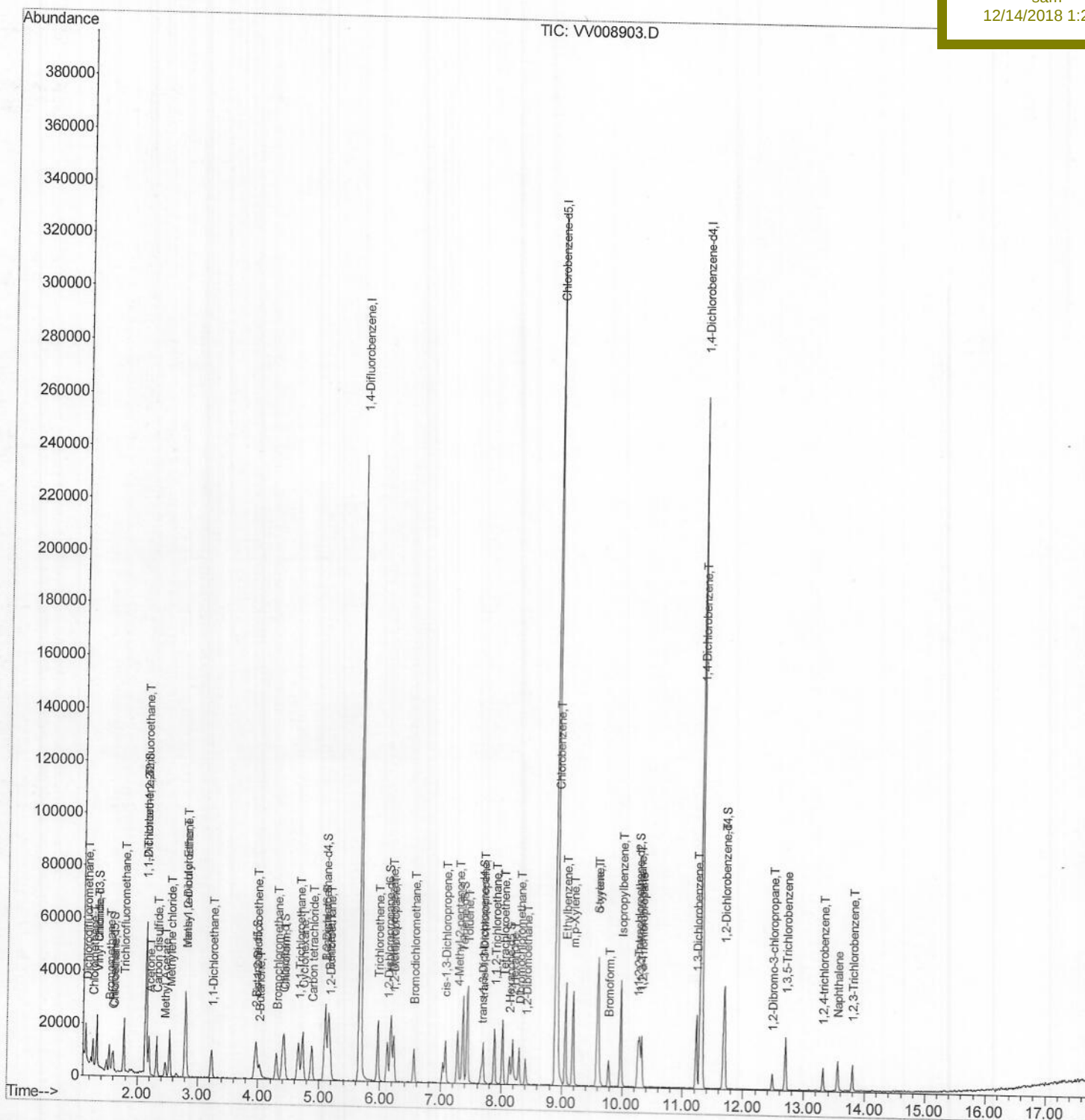
Data File : VV008903.D
Acq On : 13 Dec 2018 12:01
Operator : SY/MD
Sample : VSTD00570
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 00:33:55 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 00:21:00 2018
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD00570

Manual Integrations APPROVED

12/14/2018 1:20:34 PM



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121318\
Quantitation Report (Qedit)

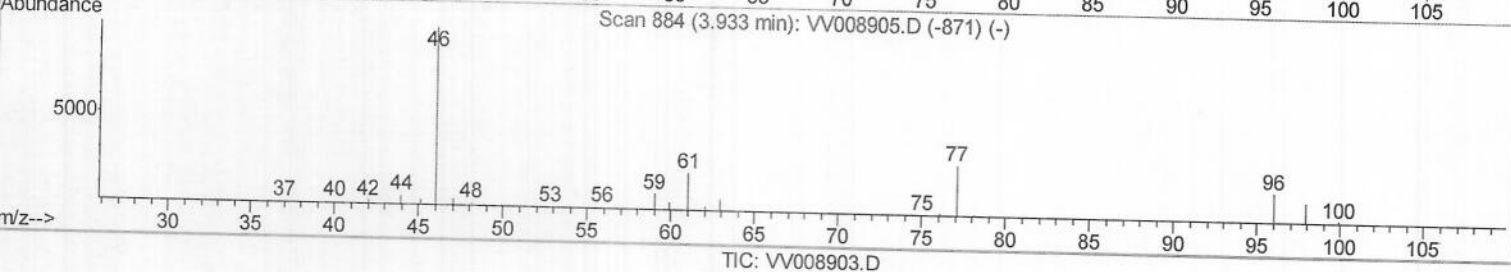
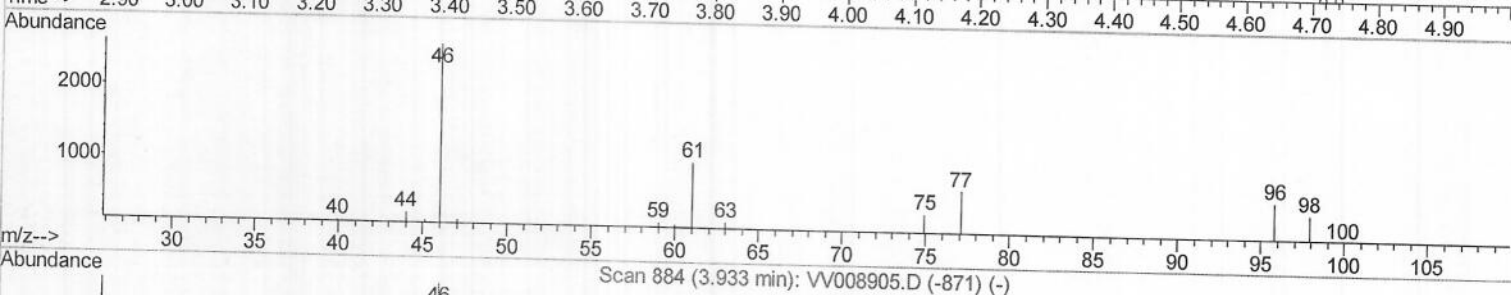
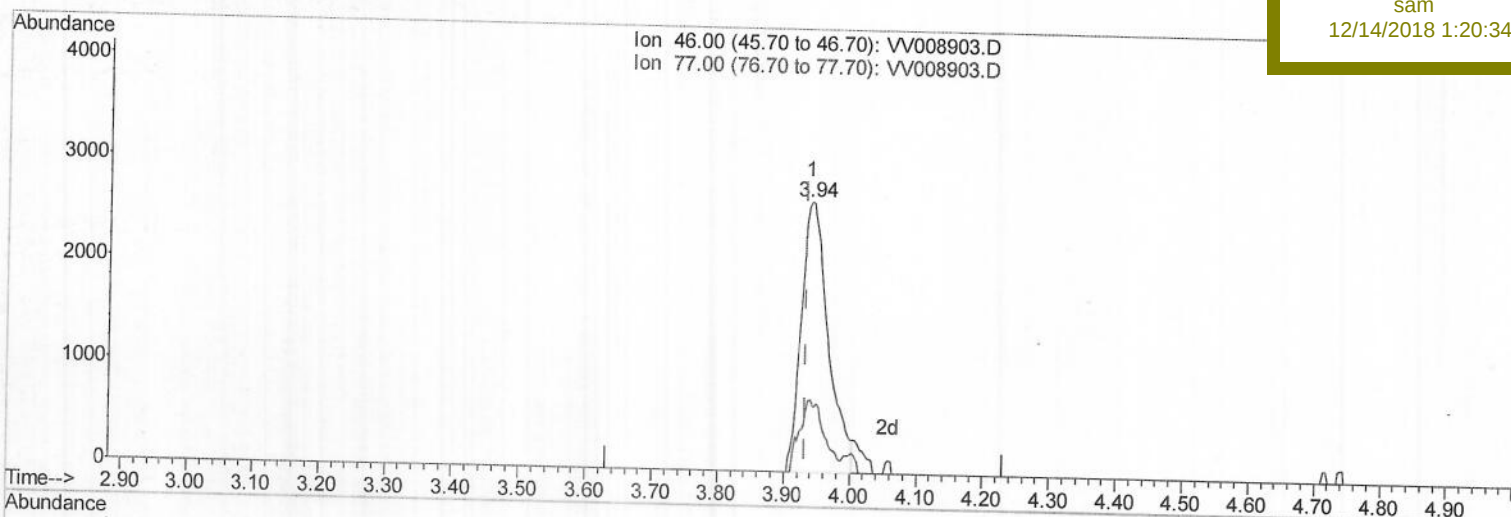
Data File : VV008903.D
Acq On : 13 Dec 2018 12:01
Operator : SY/MD
Sample : VSTD00570
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 00:33:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 00:21:00 2018
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD00570

Manual Integrations
APPROVED

sam
12/14/2018 1:20:34 PM



(21) 2-Butanone-d5 (S)

3.939min (+0.006) 6.63ug/L

response 7551

Ion	Exp%	Act%
46.00	100	100
77.00	26.60	13.95#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121318\
Quantitation Report (Qedit)

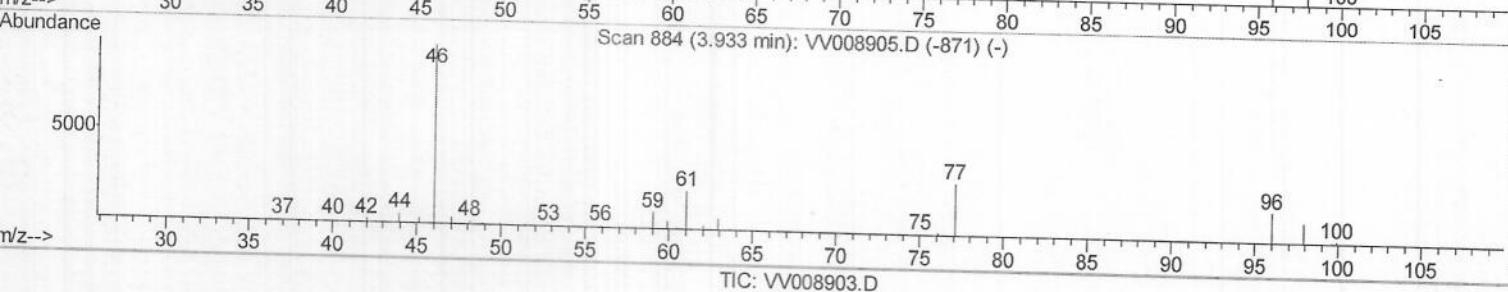
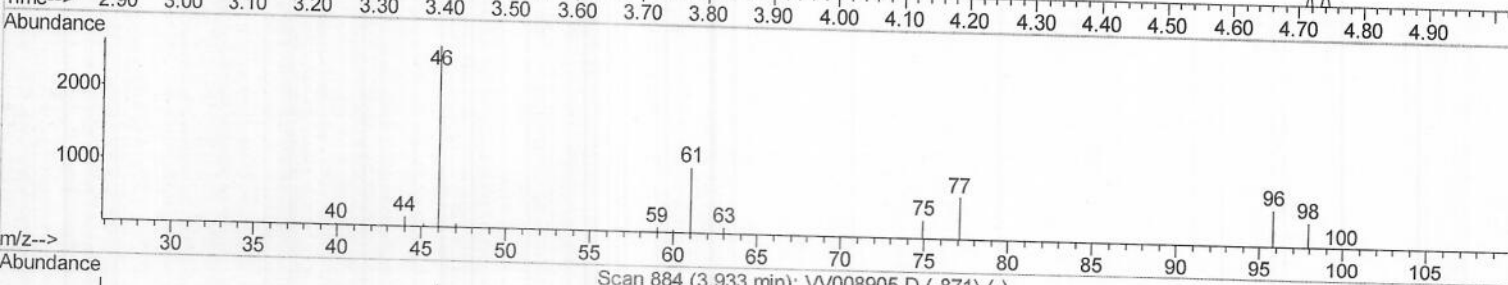
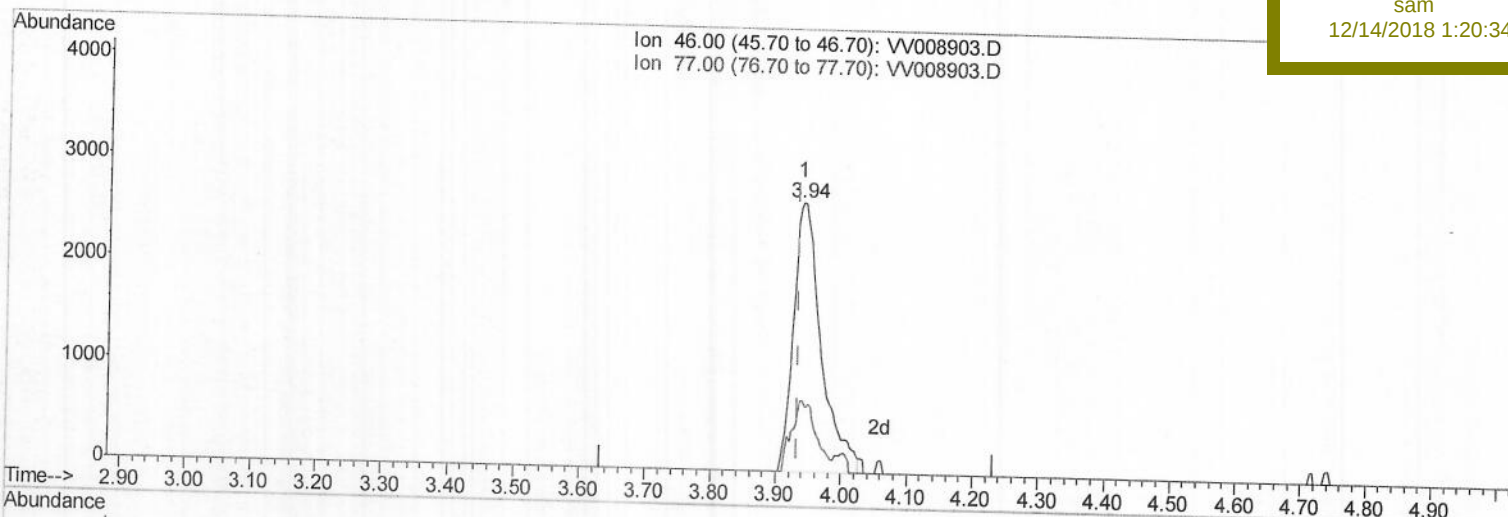
Data File : VV008903.D
Acq On : 13 Dec 2018 12:01
Operator : SY/MD
Sample : VSTD00570
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 00:33:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 00:21:00 2018
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD00570

Manual Integrations
APPROVED

sam
12/14/2018 1:20:34 PM



(21) 2-Butanone-d5 (S)

3.939min (+0.006) 6.91ug/L m

response 7870

Ion	Exp%	Act%
46.00	100	100
77.00	26.60	13.38#
0.00	0.00	0.00
0.00	0.00	0.00

M.D
12/17/18

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121318\
Quantitation Report (Qedit)

Data File : VV008903.D

Acq On : 13 Dec 2018 12:01

Operator : SY/MD

Sample : VSTD00570

Misc : 5.0 mL/MSVOA_V/WATER

ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 00:33:00 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M

Quant Title : VOC Analysis

QLast Update : Fri Dec 14 00:21:00 2018

Response via : Initial Calibration

Instrument :

MSVOA_V

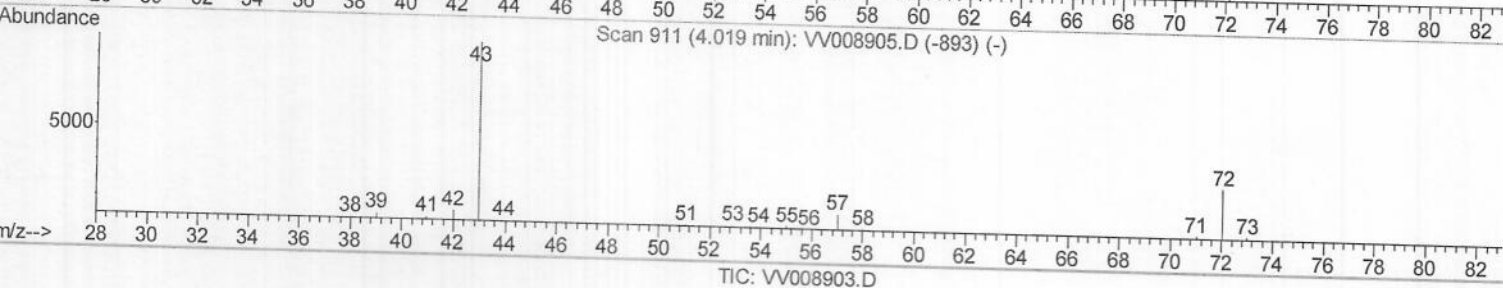
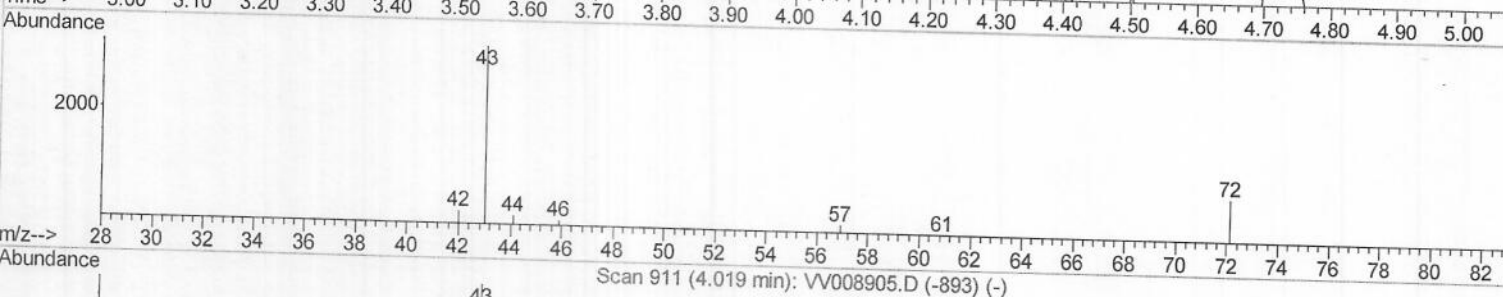
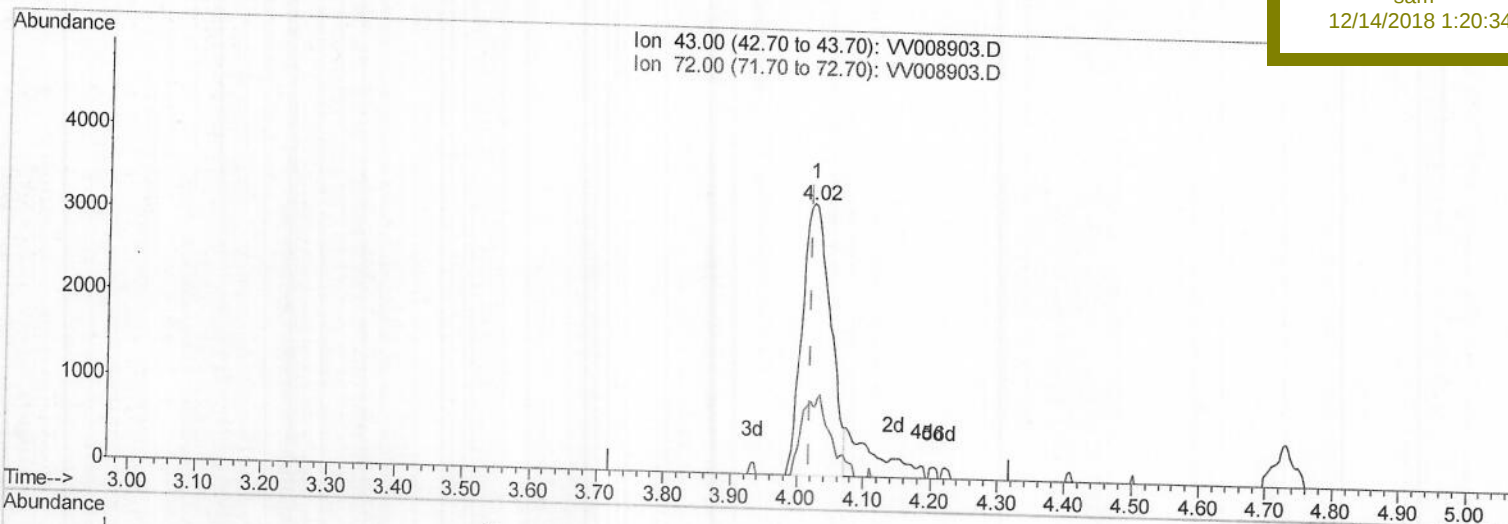
ClientSampleId :

VSTD00570

Manual Integrations
APPROVED

sam

12/14/2018 1:20:34 PM



(22) 2-Butanone (T)

4.023min (+0.003) 6.54ug/L

response 9430

Ion	Exp%	Act%
43.00	100	100
72.00	29.70	13.62#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121318\
Quantitation Report (Qedit)

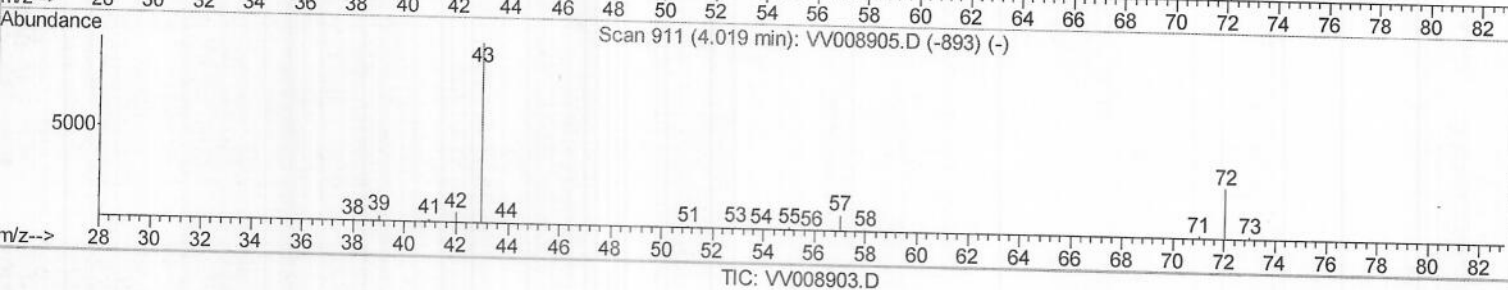
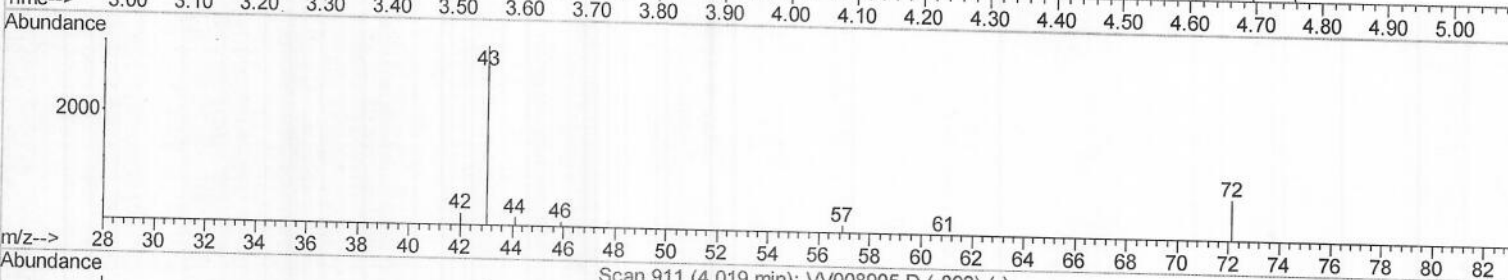
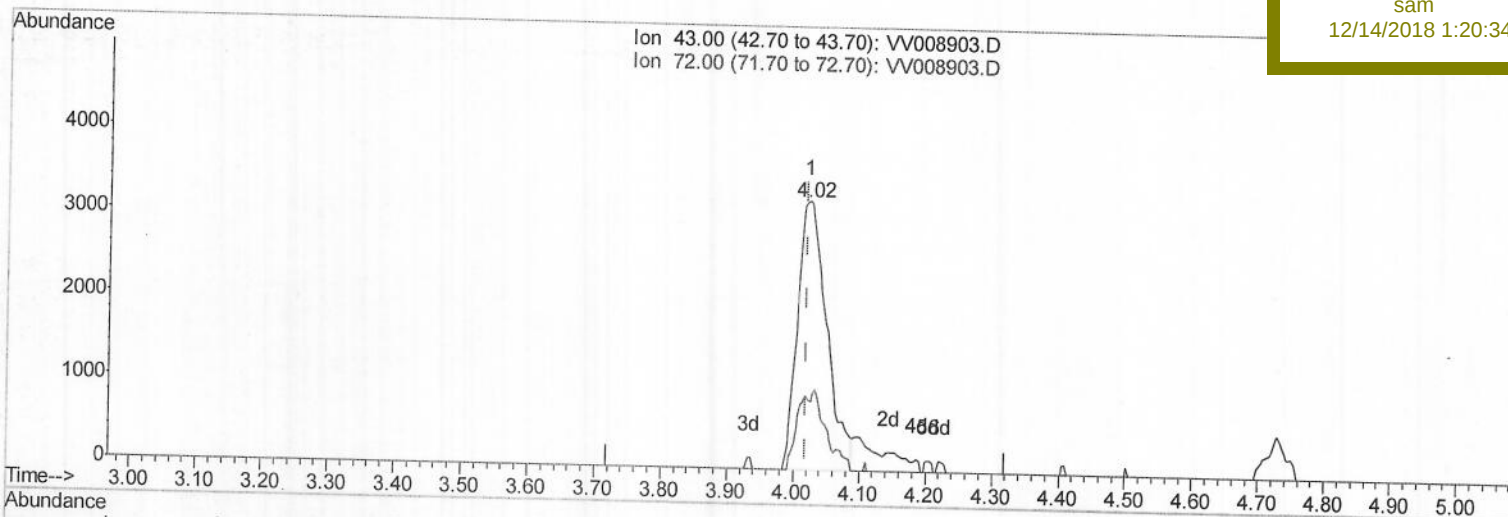
Data File : VV008903.D
Acq On : 13 Dec 2018 12:01
Operator : SY/MD
Sample : VSTD00570
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 00:33:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 00:21:00 2018
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampled :
VSTD00570

Manual Integrations
APPROVED

sam
12/14/2018 1:20:34 PM



(22) 2-Butanone (T)

4.023min (+0.003) 6.85ug/L m

response 9882

Ion	Exp%	Act%
-----	------	------

43.00	100	100
-------	-----	-----

72.00	29.70	12.99#
-------	-------	--------

0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

m.D
12/17/18

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121318\
Quantitation Report (Qedit)

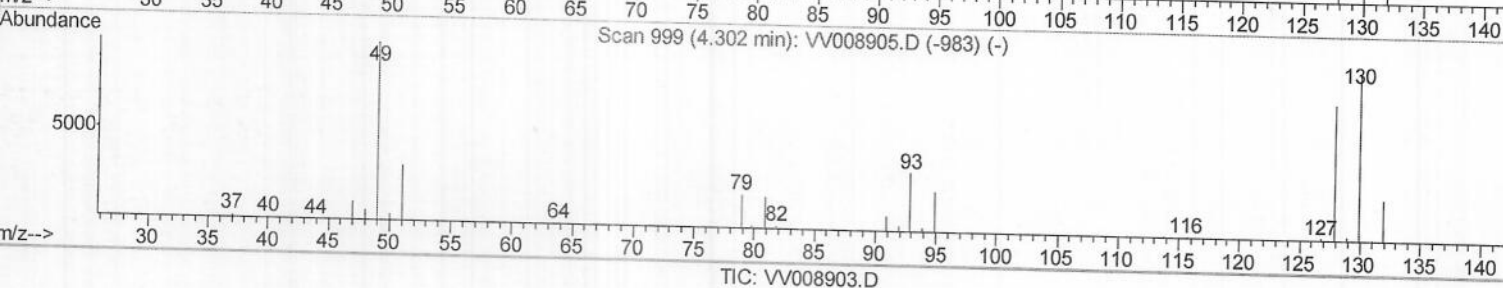
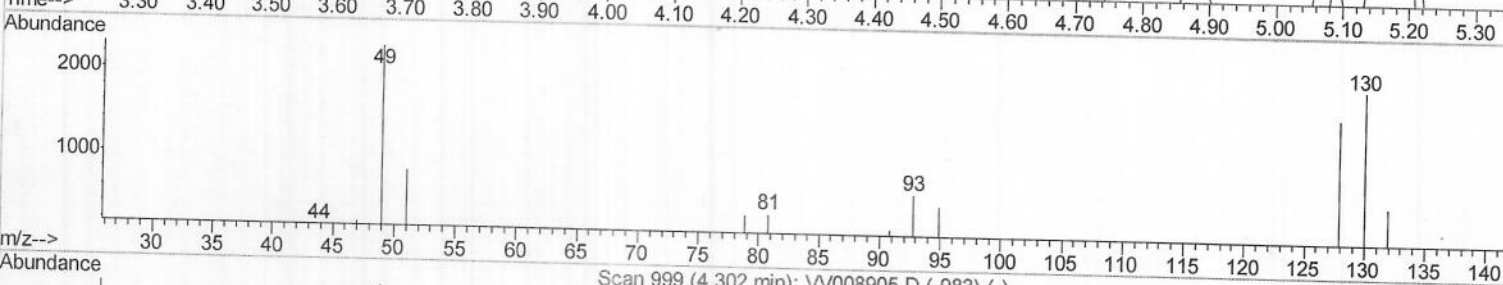
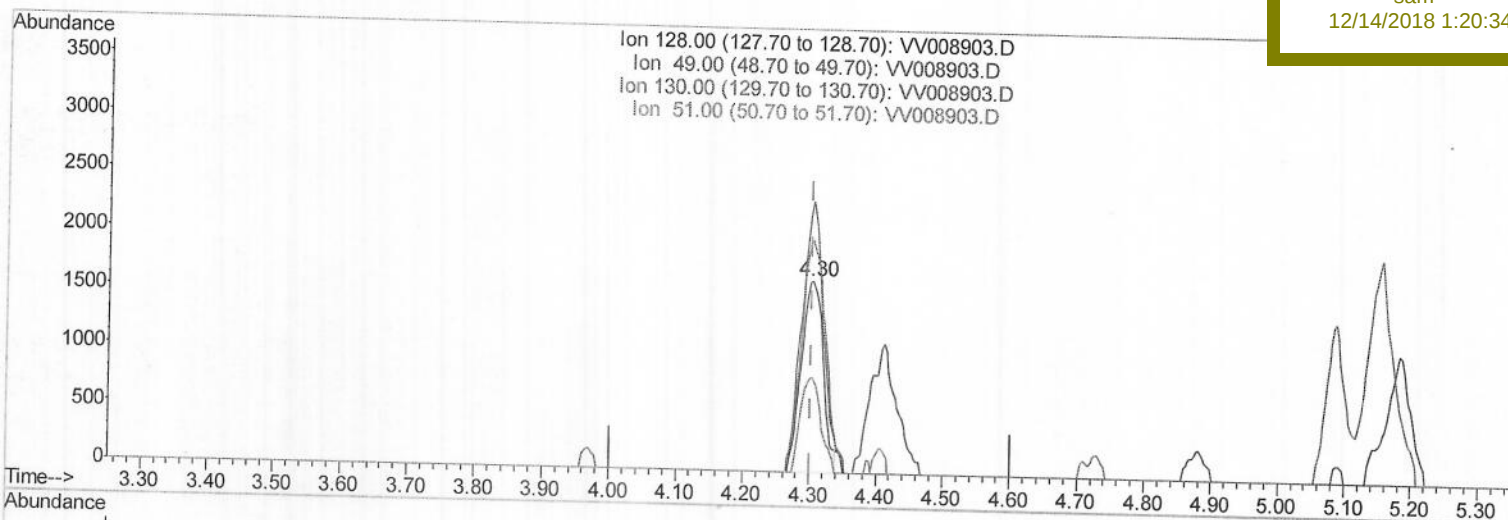
Data File : VV008903.D
Acq On : 13 Dec 2018 12:01
Operator : SY/MD
Sample : VSTD00570
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 00:33:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 00:21:00 2018
Response via : Initial Calibration

Instrument :
MSVOA_V
Client Sampled :
VSTD00570

Manual Integrations
APPROVED

sam
12/14/2018 1:20:34 PM



(23) Bromochloromethane (T)

4.302min (-0.000) 4.54ug/L

response 3754

Ion	Exp%	Act%
128.00	100	100
49.00	130.80	140.69
130.00	123.10	120.80
51.00	40.90	49.94#

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121318\
Quantitation Report (Qedit)

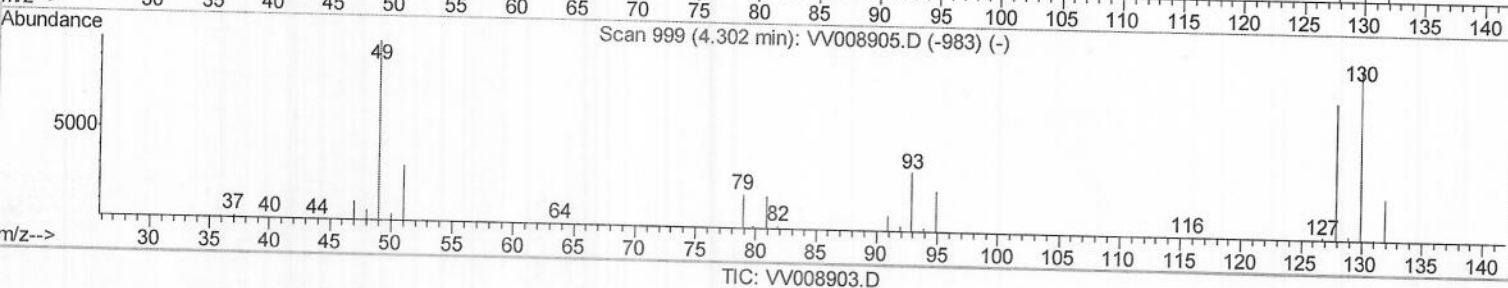
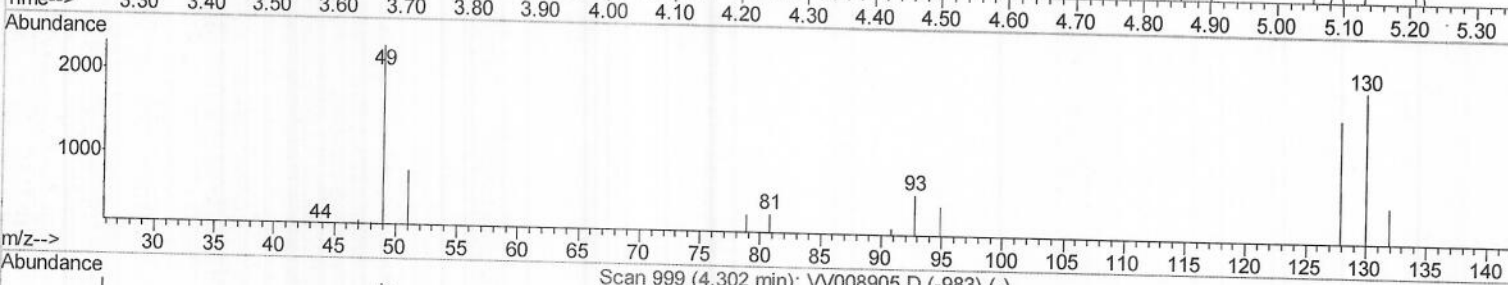
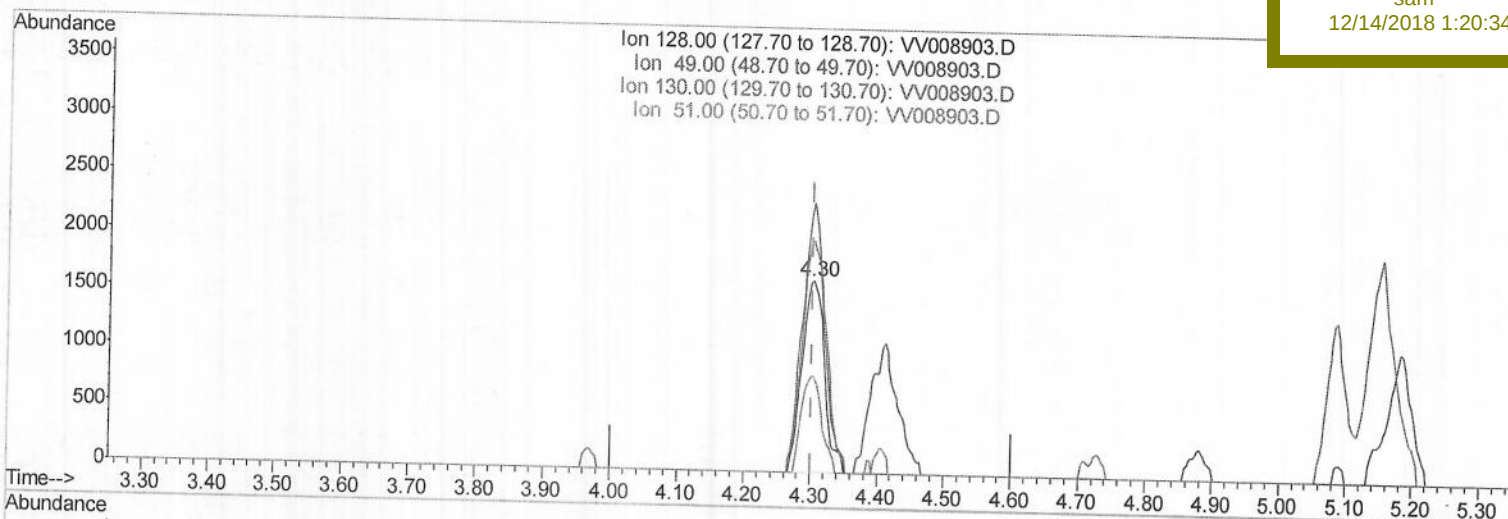
Data File : VV008903.D
Acq On : 13 Dec 2018 12:01
Operator : SY/MD
Sample : VSTD00570
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 00:33:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 00:21:00 2018
Response via : Initial Calibration

Instrument :
MSVOA_V
Client Sampled :
VSTD00570

Manual Integrations
APPROVED

sam
12/14/2018 1:20:34 PM



(23) Bromochloromethane (T)

4.302min (-0.000) 4.65ug/L m

response 3852

Ion	Exp%	Act%
128.00	100	100
49.00	130.80	140.69
130.00	123.10	120.80
51.00	40.90	49.94#

M.D
12/17/18

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121318\
Quantitation Report (QT Reviewed)

Data File : VV008903.D
Acq On : 13 Dec 2018 12:01
Operator : SY/MD
Sample : VSTD00570
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
Client Sample ID :
VSTD00570

Manual Integrations
APPROVED

sam
12/14/2018 1:20:34 PM

Quant Time: Dec 14 00:33:55 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 00:21:00 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene	5.67	114	211750	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	191303	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	77540	50.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
4) Vinyl Chloride-d3	1.32	65	6045	4.17	ug/L	0.00
7) Chloroethane-d5	1.58	69	4606	5.67	ug/L	0.03
11) 1,1-Dichloroethene-d2	2.13	63	14718	5.81	ug/L	0.00
21) 2-Butanone-d5	3.94	46	7870m	6.91	ug/L	0.00
24) Chloroform-d	4.40	84	12448	4.21	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	8224	4.35	ug/L	0.00
32) Benzene-d6	5.10	84	25460	4.39	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	7976	4.43	ug/L	0.00
41) Toluene-d8	7.36	98	22943	4.37	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	3427	4.13	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	3991	5.05	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	8529	3.48	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.68	152	8034	4.78	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.14	85	7628	4.565	ug/L	97
3) Chloromethane	1.26	50	6608	4.139	ug/L	99
5) Vinyl chloride	1.32	62	6343	4.057	ug/L	97
6) Bromomethane	1.53	94	4217	7.360	ug/L	83
8) Chloroethane	1.60	64	3645	4.796	ug/L	88
9) Trichlorofluoromethane	1.77	101	11607	5.403	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	7166	5.751	ug/L	98
12) 1,1-Dichloroethene	2.14	96	6706	5.993	ug/L	98
13) Acetone	2.19	43	14185	11.859	ug/L	99
14) Carbon disulfide	2.32	76	17195	4.186	ug/L	97
15) Methyl Acetate	2.46	43	6408	3.574	ug/L	97
16) Methylene chloride	2.54	84	7557	4.631	ug/L	91
17) trans-1,2-Dichloroethene	2.80	96	6545	4.458	ug/L	99
18) Methyl tert-butyl Ether	2.81	73	20183	4.153	ug/L	97
19) 1,1-Dichloroethane	3.23	63	11343	4.088	ug/L	91
20) cis-1,2-Dichloroethene	3.97	96	7547	4.470	ug/L	85
22) 2-Butanone	4.02	43	9882m	6.854	ug/L	
23) Bromochloromethane	4.30	128	3852m	4.655	ug/L	
25) Chloroform	4.43	83	13102	4.458	ug/L	97
27) 1,2-Dichloroethane	5.18	62	10166	4.485	ug/L	96
29) Cyclohexane	4.73	56	10082	4.064	ug/L	95
30) 1,1,1-Trichloroethane	4.66	97	11980	5.058	ug/L	97
31) Carbon tetrachloride	4.88	117	10339	5.173	ug/L	97
33) Benzene	5.15	78	25653	4.261	ug/L	100
34) Trichloroethene	5.96	95	7974	4.957	ug/L	97
35) Methylcyclohexane	6.18	83	10701	4.077	ug/L	96
37) 1,2-Dichloropropane	6.22	63	6602	4.087	ug/L	98
38) Bromodichloromethane	6.56	83	9440	4.775	ug/L	90
39) cis-1,3-Dichloropropene	7.07	75	9598	4.119	ug/L	100
40) 4-Methyl-2-pentanone	7.27	43	13212	6.013	ug/L	98

MVLM121318WMA.M Fri Dec 14 00:32:23 2018

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121318\
Quantitation Report (QT Reviewed)

Data File : VV008903.D
Acq On : 13 Dec 2018 12:01
Operator : SY/MD
Sample : VSTD00570
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 00:33:55 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121318WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 14 00:21:00 2018
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD00570

Manual Integrations
APPROVED

sam
12/14/2018 1:20:34 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	26891	4.286	ug/L	99
44) trans-1,3-Dichloropropene	7.70	75	8815	4.126	ug/L	95
45) 1,1,2-Trichloroethane	7.89	97	6700	4.459	ug/L	96
46) Tetrachloroethene	8.02	164	5822	4.905	ug/L	94
48) 2-Hexanone	8.18	43	10475	6.011	ug/L #	95
49) Dibromochloromethane	8.29	129	7143	4.649	ug/L	98
50) 1,2-Dibromoethane	8.40	107	7165	4.546	ug/L	100
51) Chlorobenzene	8.93	112	18680	4.622	ug/L	98
52) Ethylbenzene	9.06	91	28876	4.194	ug/L	97
53) m,p-Xylene	9.18	106	10560	4.151	ug/L	99
54) o-xylene	9.59	106	10892	4.296	ug/L	93
55) Styrene	9.60	104	16026	3.798	ug/L	97
56) Isopropylbenzene	9.98	105	27939	4.189	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	8903	3.578	ug/L #	94
59) 1,2,3-Trichloropropane	10.32	75	8284	4.069	ug/L	98
61) Bromoform	9.78	173	5120	5.788	ug/L #	95
62) 1,3-Dichlorobenzene	11.23	146	12791	4.929	ug/L	94
63) 1,4-Dichlorobenzene	11.32	146	12668	4.802	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	12864	4.796	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	1668	3.964	ug/L	94
67) 1,3,5-Trichlorobenzene	12.70	180	6694	3.751	ug/L	95
68) 1,2,4-trichlorobenzene	13.31	180	3159	2.391	ug/L	94
69) Naphthalene	13.56	128	9522	2.633	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	3538	2.602	ug/L	94

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