

Data File : VU033762.D
Acq On : 12 Aug 2019 09:48
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

Quant Time: Aug 12 16:26:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080919WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Aug 12 04:45:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	401633	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	397828	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	217587	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	154338	52.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	104.40%
7) Chloroethane-d5	1.67	69	132145	44.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.18%
11) 1,1-Dichloroethene-d2	2.26	63	268914	54.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	108.18%
21) 2-Butanone-d5	4.15	46	219669	119.85	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	119.85%
24) Chloroform-d	4.62	84	255494	58.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	116.34%
26) 1,2-Dichloroethane-d4	5.29	65	157730	57.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	114.86%
32) Benzene-d6	5.32	84	509418	54.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.52%
36) 1,2-Dichloropropane-d6	6.31	67	158655	55.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	110.14%
41) Toluene-d8	7.55	98	475822	53.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.76%
43) trans-1,3-Dichloropropene-	7.83	79	77288	53.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.24%
47) 2-Hexanone-d5	8.29	63	165006	110.57	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.57%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	242546	56.91	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	113.82%
64) 1,2-Dichlorobenzene-d4	11.85	152	186077	50.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.62%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	156467	53.403 ug/L	99
3) Chloromethane	1.32	50	165709	54.605 ug/L	100
5) Vinyl chloride	1.40	62	183714	54.338 ug/L	98
6) Bromomethane	1.62	94	156963	57.222 ug/L	98
8) Chloroethane	1.69	64	117908	45.809 ug/L	99
9) Trichlorofluoromethane	1.87	101	251510	54.860 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	137484	57.182 ug/L	95
12) 1,1-Dichloroethene	2.27	96	123638	52.351 ug/L	99
13) Acetone	2.31	43	241510	131.052 ug/L	100
14) Carbon disulfide	2.46	76	358748	54.111 ug/L	99
15) Methyl Acetate	2.60	43	169563	55.223 ug/L	98
16) Methylene chloride	2.68	84	144605	52.768 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	128897	50.923 ug/L	92
18) Methyl tert-butyl Ether	2.98	73	409852	49.506 ug/L	99
19) 1,1-Dichloroethane	3.42	63	252822	52.927 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	148230	51.340 ug/L	97
22) 2-Butanone	4.23	43	283985	123.812 ug/L	96

Data File : VU033762.D
Acq On : 12 Aug 2019 09:48
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

Quant Time: Aug 12 16:26:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080919WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Aug 12 04:45:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	76771	51.678	ug/L	97
25) Chloroform	4.65	83	268024	53.789	ug/L	97
27) 1,2-Dichloroethane	5.38	62	210153	55.376	ug/L	100
29) Cyclohexane	4.97	56	204971	48.825	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	224292	51.955	ug/L	99
31) Carbon tetrachloride	5.11	117	200473	51.759	ug/L	98
33) Benzene	5.37	78	569467	51.437	ug/L	100
34) Trichloroethene	6.16	95	146208	50.050	ug/L	97
35) Methylcyclohexane	6.40	83	230218	51.773	ug/L	98
37) 1,2-Dichloropropane	6.41	63	156602	53.002	ug/L	100
38) Bromodichloromethane	6.74	83	198939	52.400	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	235269	50.106	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	474352	107.949	ug/L	98
42) Toluene	7.62	91	617345	51.543	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	221341	52.915	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	147584	51.095	ug/L	99
46) Tetrachloroethene	8.21	164	120576	50.072	ug/L	97
48) 2-Hexanone	8.34	43	399824	115.556	ug/L	97
49) Dibromochloromethane	8.46	129	170478	52.675	ug/L	99
50) 1,2-Dibromoethane	8.57	107	162539	50.896	ug/L	98
51) Chlorobenzene	9.10	112	399347	50.723	ug/L	99
52) Ethylbenzene	9.23	91	658697	50.274	ug/L	99
53) m,p-Xylene	9.36	106	254001	50.786	ug/L	96
54) o-xylene	9.76	106	246829	49.932	ug/L	98
55) Styrene	9.77	104	438006	52.802	ug/L	98
56) Isopropylbenzene	10.15	105	642115	49.498	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	266009	52.425	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	213585	53.471	ug/L	98
61) Bromoform	9.94	173	129429	49.552	ug/L	97
62) 1,3-Dichlorobenzene	11.40	146	330180	49.847	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	333832	49.757	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	326168	49.810	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	66778	53.978	ug/L	93
67) 1,3,5-Trichlorobenzene	12.87	180	251975	47.803	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	224182	47.010	ug/L	99
69) Naphthalene	13.73	128	701833	49.135	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	238392	48.355	ug/L	97

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

Data File : VU033762.D

```
Acq On       : 12 Aug 2019   09:48
Operator    : JC/SP
Sample      : VSTDCCC050
Misc        : 5.0mL/MSVOA_U/WATER
ALS Vial     : 2      Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

Quant Time: Aug 12 16:26:14 2019
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080919WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Aug 12 04:45:27 2019
Response via : Initial Calibration

