

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025066.D
 Acq On : 03 Nov 2021 22:50
 Operator : JC/MD
 Sample : VX1104WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1104WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/04/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 03 23:58:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:52:56 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.910	128	19894	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	110251	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	98826	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	56322	29.664	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.867%
60) 4-Bromofluorobenzene	11.085	95	54109	30.008	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.033%
63) Toluene-d8	8.653	98	136213	29.843	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.467%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	33496	21.988	ug/l	96
3) Chloromethane	1.288	50	16945	21.172	ug/l	95
4) Vinyl Chloride	1.374	62	18994	20.694	ug/l	92
5) Bromomethane	1.612	94	15293	20.295	ug/l	94
6) Chloroethane	1.691	64	11353	21.938	ug/l	94
7) Trichlorofluoromethane	1.892	101	47854	21.603	ug/l	98
8) Diethyl Ether	2.136	74	11690	22.269	ug/l	73
9) 1,1,2-Trichlorotrifluo...	2.331	101	24632	21.317	ug/l	96
10) 1,1-Dichloroethene	2.319	96	19975	20.387	ug/l	91
11) Methyl Iodide	2.459	142	24064	21.765	ug/l	92
12) Methyl Acetate	2.709	43	42840	20.810	ug/l	97
13) Acrolein	2.240	56	8713	92.923	ug/l	96
14) Acrylonitrile	3.069	53	63443	109.414	ug/l	95
15) Acetone	2.386	58	16402	92.580	ug/l	94
16) Carbon Disulfide	2.514	76	52222	20.880	ug/l	97
17) Allyl chloride	2.666	41	33666	21.540	ug/l	93
18) Methylene Chloride	2.794	84	24047	20.967	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	23172	21.513	ug/l	89
20) Diisopropyl ether	3.764	45	74830	22.131	ug/l	87
21) 1,1-Dichloroethane	3.617	63	47753	21.282	ug/l	96
22) cis-1,2-Dichloroethene	4.495	96	26612	20.821	ug/l	86
23) tert-Butyl Alcohol	2.989	59	36976m	104.862	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	92290	22.285	ug/l #	91
25) Chloroform	5.099	83	55108	21.181	ug/l	99
26) Cyclohexane	5.477	56	38966	21.769	ug/l #	100
29) 1,1-Dichloropropene	5.702	75	36673	20.686	ug/l	95
30) 2-Butanone	4.562	43	92652	103.619	ug/l	98
31) 2,2-Dichloropropane	4.483	77	44224	19.639	ug/l #	80
32) 1,1,1-Trichloroethane	5.385	97	53718	21.063	ug/l	94
33) Carbon Tetrachloride	5.690	117	46555	20.802	ug/l	94
34) Benzene	6.044	78	94622	20.926	ug/l	99
35) Methacrylonitrile	4.928	41	18266	20.714	ug/l	96
36) 1,2-Dichloroethane	6.092	62	44658	20.383	ug/l #	86
37) Trichloroethene	7.129	130	26581	21.033	ug/l	93
38) Methylcyclohexane	7.385	83	40655	21.355	ug/l	98
39) 1,2-Dichloropropane	7.434	63	25350	20.544	ug/l	92
40) Dibromomethane	7.586	93	20411	21.232	ug/l	88
41) Bromodichloromethane	7.824	83	42264	20.707	ug/l	98
42) Vinyl Acetate	3.727	43	279258	104.384	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	36578	21.342	ug/l #	69
44) Isopropyl Acetate	6.342	43	56506	21.078	ug/l	96
45) 1,4-Dioxane	7.696	88	12139	426.417	ug/l	95
46) Methyl methacrylate	7.696	41	27097	20.675	ug/l	88
47) n-amyl Acetate	10.848	43	44388	20.532	ug/l	93
48) t-1,3-Dichloropropene	8.982	75	44931	20.436	ug/l	96
49) cis-1,3-Dichloropropene	8.373	75	43625	19.877	ug/l #	85
50) 1,1,2-Trichloroethane	9.153	97	26804	20.592	ug/l	94
51) Ethyl methacrylate	9.116	69	43506	20.738	ug/l	82
52) 1,3-Dichloropropane	9.311	76	46801	21.041	ug/l	98
53) Dibromochloromethane	9.525	129	30988	20.852	ug/l	94
54) 1,2-Dibromoethane	9.610	107	28770	19.788	ug/l	97
55) 2-Chloroethyl vinyl ether	8.245	63	94298	101.008	ug/l	99
56) Bromoform	10.799	173	19913	20.182	ug/l #	95
58) 4-Methyl-2-Pentanone	8.574	43	179025	107.460	ug/l #	90
59) 2-Hexanone	9.433	43	138465	108.168	ug/l	92
61) Tetrachloroethene	9.275	164	25688	22.183	ug/l	95
62) Toluene	8.720	91	107348	21.235	ug/l	95
64) Chlorobenzene	10.086	112	63812	20.899	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	28817	21.127	ug/l	94
66) Ethyl Benzene	10.195	91	126358	21.140	ug/l	94
67) m/p-Xylenes	10.305	106	87917	42.775	ug/l	81
68) o-Xylene	10.647	106	43061	21.454	ug/l	80
69) Styrene	10.659	104	70824	20.772	ug/l	91
70) Isopropylbenzene	10.964	105	125693	21.554	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.214	83	40229	20.898	ug/l	96
72) 1,2,3-Trichloropropane	11.244	75	40012m	21.460	ug/l	
73) Bromobenzene	11.201	156	28621	21.964	ug/l	87
74) n-propylbenzene	11.305	91	145892	21.095	ug/l	96
75) 2-Chlorotoluene	11.366	91	89960	20.756	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	108150	21.265	ug/l	90
77) t-1,4-Dichloro-2-butene	11.025	75	13154	20.954	ug/l	87
78) 4-Chlorotoluene	11.457	91	103963	21.017	ug/l	92
79) tert-butylbenzene	11.720	119	101809	21.247	ug/l	94
80) 1,2,4-Trimethylbenzene	11.756	105	107816	21.558	ug/l	92
81) sec-Butylbenzene	11.896	105	129632	21.745	ug/l	97
82) p-Isopropyltoluene	12.012	119	106699	21.579	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	51912	21.424	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	49892	20.676	ug/l	94
85) n-Butylbenzene	12.335	91	94518	20.959	ug/l	97
86) Hexachloroethane	12.543	117	17242	19.559	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	52435	21.978	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11087	21.057	ug/l #	82
89) 1,2,4-Trichlorobenzene	13.591	180	31052	21.486	ug/l	97
90) Hexachlorobutadiene	13.725	225	14661	20.078	ug/l	94
91) Naphthalene	13.780	128	101040	20.457	ug/l	97
92) 1,2,3-Trichlorobenzene	13.963	180	30683	20.815	ug/l	97

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

