

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121523\
 Data File : VX039224.D
 Acq On : 15 Dec 2023 11:05
 Operator : JC/MD
 Sample : VX1215WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1215WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh
 Dadoda
 12/18/2023
 Supervised By :Semsetun
 Yesilyurt
 12/18/2023

Quant Time: Dec 16 01:12:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.885	128	9485	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.757	114	69486	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	85743	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	41082	31.660	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.533%			
60) 4-Bromofluorobenzene	11.079	95	59513	31.778	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.933%			
63) Toluene-d8	8.647	98	100268	29.578	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	27903	19.655	ug/l	100
3) Chloromethane	1.294	50	29884	18.384	ug/l	94
4) Vinyl Chloride	1.374	62	29523	17.990	ug/l	98
5) Bromomethane	1.605	94	18890	18.820	ug/l	100
6) Chloroethane	1.691	64	16471	17.235	ug/l	94
7) Trichlorofluoromethane	1.892	101	44762	19.763	ug/l	97
8) Diethyl Ether	2.130	74	17525	20.157	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	28192	22.026	ug/l	99
10) 1,1-Dichloroethene	2.319	96	26782	20.759	ug/l	99
11) Methyl Iodide	2.453	142	28235	19.971	ug/l	100
12) Methyl Acetate	2.697	43	98849	24.566	ug/l	98
13) Acrolein	2.233	56	30541	86.640	ug/l	98
14) Acrylonitrile	3.056	53	108135	109.875	ug/l	99
15) Acetone	2.373	58	32467	90.756	ug/l	99
16) Carbon Disulfide	2.514	76	69966	17.906	ug/l	98
17) Allyl chloride	2.666	41	55834	21.800	ug/l	95
18) Methylene Chloride	2.788	84	32673	21.364	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	28753	19.705	ug/l	93
20) Diisopropyl ether	3.751	45	111353	22.846	ug/l	92
21) 1,1-Dichloroethane	3.605	63	58826	21.708	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	34914	20.646	ug/l	95
23) tert-Butyl Alcohol	2.940	59	50189	92.118	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	108212	22.769	ug/l	96
25) Chloroform	5.086	83	59767	21.974	ug/l	92
26) Cyclohexane	5.464	56	48571	19.803	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	42470	21.803	ug/l	97
30) 2-Butanone	4.544	43	160294	109.299	ug/l	99
31) 2,2-Dichloropropane	4.471	77	49979	22.441	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	50168	22.283	ug/l	97
33) Carbon Tetrachloride	5.678	117	39328	20.738	ug/l	97
34) Benzene	6.031	78	124849	22.002	ug/l #	94
35) Methacrylonitrile	4.916	41	31918	24.570	ug/l	96
36) 1,2-Dichloroethane	6.080	62	51587	24.777	ug/l	99
37) Trichloroethene	7.123	130	31020	21.539	ug/l	97
38) Methylcyclohexane	7.379	83	50237	20.699	ug/l	96
39) 1,2-Dichloropropane	7.427	63	34107	22.791	ug/l	96
40) Dibromomethane	7.580	93	23997	22.695	ug/l	98
41) Bromodichloromethane	7.818	83	46706	22.993	ug/l	98
42) Vinyl Acetate	3.715	43	408236	116.871	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	55072	21.827	ug/l	97
44) Isopropyl Acetate	6.336	43	92605	23.283	ug/l	98
45) 1,4-Dioxane	7.653	88	16703	411.364	ug/l	96
46) Methyl methacrylate	7.690	41	54841	24.116	ug/l	95
47) n-amyl Acetate	10.841	43	78158	23.216	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	51405	21.825	ug/l	97
49) cis-1,3-Dichloropropene	8.360	75	55193	22.715	ug/l	94
50) 1,1,2-Trichloroethane	9.147	97	34187	23.802	ug/l	98
51) Ethyl methacrylate	9.116	69	41550	23.109	ug/l	100
52) 1,3-Dichloropropane	9.305	76	58249	23.651	ug/l	100
53) Dibromochloromethane	9.519	129	32898	21.327	ug/l	98
54) 1,2-Dibromoethane	9.604	107	36432	23.129	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	120672	105.886	ug/l	99
56) Bromoform	10.799	173	22084	19.836	ug/l	97
58) 4-Methyl-2-Pentanone	8.568	43	313647	120.627	ug/l	99
59) 2-Hexanone	9.427	43	254540	119.262	ug/l	97
61) Tetrachloroethene	9.269	164	23386	20.978	ug/l	95
62) Toluene	8.714	91	134408	22.079	ug/l	99
64) Chlorobenzene	10.079	112	81268	21.947	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	30126	22.591	ug/l	99
66) Ethyl Benzene	10.189	91	153334	22.120	ug/l	98
67) m/p-Xylenes	10.299	106	111802	43.648	ug/l	96
68) o-Xylene	10.640	106	54935	22.141	ug/l	99
69) Styrene	10.652	104	79721	21.710	ug/l	96
70) Isopropylbenzene	10.963	105	148003	22.295	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	57623	23.252	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	51179m	24.405	ug/l	
73) Bromobenzene	11.195	156	33269	22.012	ug/l	93
74) n-propylbenzene	11.305	91	182397	22.426	ug/l	99
75) 2-Chlorotoluene	11.360	91	107658	22.561	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	124943	21.847	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	16384	19.717	ug/l	87
78) 4-Chlorotoluene	11.451	91	128512	22.907	ug/l	96
79) tert-butylbenzene	11.713	119	119447	21.965	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	126125	22.035	ug/l	98
81) sec-Butylbenzene	11.890	105	150023	21.823	ug/l	99
82) p-Isopropyltoluene	12.006	119	125471	21.535	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	62525	21.617	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	64097	21.597	ug/l	99
85) n-Butylbenzene	12.329	91	124303	21.603	ug/l	98
86) Hexachloroethane	12.536	117	22323	20.220	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	61564	22.134	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14664	23.137	ug/l	90
89) 1,2,4-Trichlorobenzene	13.585	180	39925	21.651	ug/l	99
90) Hexachlorobutadiene	13.725	225	14845	22.545	ug/l	97
91) Naphthalene	13.774	128	147459	21.682	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	39448	22.085	ug/l	99

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

