

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041532.D
 Acq On : 15 May 2024 11:57
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/16/2024
 Supervised By : Mahesh Dadoda 05/16/2024

Quant Time: May 16 04:56:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 04:55:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	28511	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	159510	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	148084	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	67590	30.104	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.333%			
60) 4-Bromofluorobenzene	11.079	95	70517	30.504	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.667%			
63) Toluene-d8	8.647	98	192735	30.363	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.200%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	27416	18.385	ug/l	100
3) Chloromethane	1.294	50	32286	19.771	ug/l	100
4) Vinyl Chloride	1.374	62	33538	19.507	ug/l	100
5) Bromomethane	1.599	94	20581	18.821	ug/l	100
6) Chloroethane	1.666	64	16698	19.552	ug/l	100
7) Trichlorofluoromethane	1.867	101	51463	19.720	ug/l	100
8) Diethyl Ether	2.136	74	18403	18.883	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	31996	21.143	ug/l	100
10) 1,1-Dichloroethene	2.312	96	30861	21.157	ug/l	100
11) Methyl Iodide	2.447	142	33937	19.533	ug/l	100
12) Methyl Acetate	2.709	43	43654	19.879	ug/l	100
13) Acrolein	2.239	56	27250	101.888	ug/l	100
14) Acrylonitrile	3.068	53	92619	95.890	ug/l	100
15) Acetone	2.392	58	27074	104.616	ug/l	100
16) Carbon Disulfide	2.501	76	61590	18.701	ug/l	100
17) Allyl chloride	2.660	41	51436	19.870	ug/l	100
18) Methylene Chloride	2.788	84	35123	20.245	ug/l	100
19) trans-1,2-Dichloroethene	3.087	96	32425	19.385	ug/l	100
20) Diisopropyl ether	3.763	45	106571	19.594	ug/l	100
21) 1,1-Dichloroethane	3.605	63	58756	19.248	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	38603	18.992	ug/l	100
23) tert-Butyl Alcohol	3.007	59	39334	94.571	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	104493	19.187	ug/l	100
25) Chloroform	5.092	83	63023	19.380	ug/l	100
26) Cyclohexane	5.464	56	49330	19.379	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	40942	19.404	ug/l	100
30) 2-Butanone	4.568	43	137072	97.871	ug/l	100
31) 2,2-Dichloropropane	4.471	77	48503	19.586	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	54893	19.389	ug/l	100
33) Carbon Tetrachloride	5.678	117	46438	19.170	ug/l	100
34) Benzene	6.037	78	132158	19.832	ug/l	100
35) Methacrylonitrile	4.934	41	27699	19.606	ug/l	100
36) 1,2-Dichloroethane	6.092	62	49004	19.706	ug/l	100
37) Trichloroethene	7.123	130	36252	19.525	ug/l	100
38) Methylcyclohexane	7.379	83	52474	19.586	ug/l	100
39) 1,2-Dichloropropane	7.433	63	31564	20.038	ug/l	100
40) Dibromomethane	7.580	93	23732	19.143	ug/l	100
41) Bromodichloromethane	7.824	83	43998	18.904	ug/l	100
42) Vinyl Acetate	3.721	43	475709	97.898	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	52782	19.532	ug/l	100
44) Isopropyl Acetate	6.342	43	78675	19.260	ug/l	100
45) 1,4-Dioxane	7.671	88	18347m	418.804	ug/l	
46) Methyl methacrylate	7.696	41	39029	19.203	ug/l	100
47) n-amyl Acetate	10.841	43	70376	18.998	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	43003	18.398	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	47515	18.768	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	33559	19.459	ug/l	100
51) Ethyl methacrylate	9.116	69	52421	18.884	ug/l	100
52) 1,3-Dichloropropane	9.311	76	56347	19.772	ug/l	100
53) Dibromochloromethane	9.525	129	36285	18.491	ug/l	100
54) 1,2-Dibromoethane	9.610	107	35924	19.643	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	134672	99.390	ug/l	100
56) Bromoform	10.799	173	27653	17.583	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	271279	100.261	ug/l	100
59) 2-Hexanone	9.433	43	210793	97.793	ug/l	100
61) Tetrachloroethene	9.269	164	35437	19.559	ug/l	100
62) Toluene	8.720	91	145377	19.730	ug/l	100
64) Chlorobenzene	10.079	112	97304	19.441	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	33959	19.170	ug/l	100
66) Ethyl Benzene	10.195	91	160938	19.669	ug/l	100
67) m/p-Xylenes	10.299	106	129005	40.320	ug/l	100
68) o-Xylene	10.640	106	62552	19.422	ug/l	100
69) Styrene	10.659	104	104173	19.291	ug/l	100
70) Isopropylbenzene	10.963	105	164152	20.171	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	54766	19.589	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	49979m	20.264	ug/l	
73) Bromobenzene	11.201	156	46119	19.287	ug/l	100
74) n-propylbenzene	11.305	91	179656	19.578	ug/l	100
75) 2-Chlorotoluene	11.366	91	113888	19.763	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	135470	19.502	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	14245	17.976	ug/l	100
78) 4-Chlorotoluene	11.457	91	129039	19.660	ug/l	100
79) tert-butylbenzene	11.713	119	144140	19.496	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	137759	19.786	ug/l	100
81) sec-Butylbenzene	11.890	105	168081	19.456	ug/l	100
82) p-Isopropyltoluene	12.006	119	146162	19.327	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	82107	19.145	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	83018	19.158	ug/l	100
85) n-Butylbenzene	12.335	91	112949	18.561	ug/l	100
86) Hexachloroethane	12.536	117	23054	18.104	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	84682	19.346	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	11525	18.771	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	55088	18.730	ug/l	100
90) Hexachlorobutadiene	13.725	225	27514	19.175	ug/l	100
91) Naphthalene	13.774	128	167761	19.084	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	58080	19.328	ug/l	100

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

