

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112822\
 Data File : VX033093.D
 Acq On : 28 Nov 2022 16:33
 Operator : JC/MD
 Sample : VX1128WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1128WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/29/2022
 Supervised By : Mahesh Dadoda 11/29/2022

Quant Time: Nov 29 03:56:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	12996	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	86310	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	93383	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	36338	28.983	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.600%		
60) 4-Bromofluorobenzene	11.079	95	51882	29.045	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.800%		
63) Toluene-d8	8.647	98	92948	29.494	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.300%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	18213	15.835	ug/l	99
3) Chloromethane	1.294	50	19596	17.169	ug/l	92
4) Vinyl Chloride	1.374	62	22332	17.304	ug/l	99
5) Bromomethane	1.618	94	14620	12.760	ug/l	100
6) Chloroethane	1.691	64	17269	16.941	ug/l #	85
7) Trichlorofluoromethane	1.892	101	44009	17.690	ug/l	97
8) Diethyl Ether	2.136	74	15293	19.012	ug/l	73
9) 1,1,2-Trichlorotrifluo...	2.331	101	23641	17.864	ug/l	97
10) 1,1-Dichloroethene	2.319	96	21922	17.340	ug/l	87
11) Methyl Iodide	2.453	142	20105	14.792	ug/l	98
12) Methyl Acetate	2.709	43	33250	17.754	ug/l #	88
13) Acrolein	2.239	56	24372	97.591	ug/l	98
14) Acrylonitrile	3.068	53	60628	90.307	ug/l	99
15) Acetone	2.392	58	15821	90.625	ug/l	74
16) Carbon Disulfide	2.514	76	55792	17.727	ug/l	98
17) Allyl chloride	2.666	41	35942	17.892	ug/l	90
18) Methylene Chloride	2.794	84	26488	18.167	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	24545	17.624	ug/l	87
20) Diisopropyl ether	3.757	45	80826	17.944	ug/l	97
21) 1,1-Dichloroethane	3.611	63	45479	17.985	ug/l	94
22) cis-1,2-Dichloroethene	4.489	96	29448	18.110	ug/l	88
23) tert-Butyl Alcohol	3.001	59	24948m	114.448	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	83911	18.535	ug/l #	90
25) Chloroform	5.086	83	50861	18.034	ug/l	99
26) Cyclohexane	5.471	56	38229	17.312	ug/l #	85
29) 1,1-Dichloropropene	5.696	75	33892	17.705	ug/l	98
30) 2-Butanone	4.568	43	83740	93.821	ug/l	91
31) 2,2-Dichloropropane	4.477	77	34567	21.115	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	43832	18.204	ug/l	96
33) Carbon Tetrachloride	5.678	117	39326	18.601	ug/l	97
34) Benzene	6.044	78	101248	18.772	ug/l	100
35) Methacrylonitrile	4.922	41	20025	19.809	ug/l	94
36) 1,2-Dichloroethane	6.086	62	44039	19.834	ug/l #	92
37) Trichloroethene	7.123	130	27658	18.330	ug/l	94
38) Methylcyclohexane	7.385	83	40447	18.859	ug/l	88
39) 1,2-Dichloropropane	7.434	63	26147	19.152	ug/l	99
40) Dibromomethane	7.580	93	20658	19.819	ug/l	98
41) Bromodichloromethane	7.818	83	39313	19.788	ug/l	96
42) Vinyl Acetate	3.721	43	332380	96.915	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	35127	19.564	ug/l	# 89
44) Isopropyl Acetate	6.336	43	56638	18.824	ug/l	95
45) 1,4-Dioxane	7.720	88	12784m	442.338	ug/l	
46) Methyl methacrylate	7.690	41	28546	18.846	ug/l	84
47) n-amyl Acetate	10.841	43	47789	17.866	ug/l	95
48) t-1,3-Dichloropropene	8.976	75	39554	19.406	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	41288	19.184	ug/l	# 88
50) 1,1,2-Trichloroethane	9.153	97	27302	19.050	ug/l	93
51) Ethyl methacrylate	9.116	69	40208	18.786	ug/l	80
52) 1,3-Dichloropropane	9.305	76	45385	19.370	ug/l	99
53) Dibromochloromethane	9.519	129	30994	19.886	ug/l	99
54) 1,2-Dibromoethane	9.610	107	29824	19.319	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	93078	89.987	ug/l	# 93
56) Bromoform	10.799	173	21818	19.553	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	179448	98.164	ug/l	# 91
59) 2-Hexanone	9.433	43	132301	98.296	ug/l	91
61) Tetrachloroethene	9.275	164	24125	18.485	ug/l	95
62) Toluene	8.720	91	115001	18.936	ug/l	98
64) Chlorobenzene	10.079	112	71892	19.148	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	27086	18.938	ug/l	96
66) Ethyl Benzene	10.195	91	128644	18.882	ug/l	95
67) m/p-Xylenes	10.299	106	98826	37.280	ug/l	89
68) o-Xylene	10.640	106	48376	18.598	ug/l	91
69) Styrene	10.652	104	80292	18.567	ug/l	94
70) Isopropylbenzene	10.963	105	128435	18.491	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	41324	19.618	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	37669m	20.590	ug/l	
73) Bromobenzene	11.195	156	31471	18.651	ug/l	88
74) n-propylbenzene	11.305	91	147362	18.672	ug/l	94
75) 2-Chlorotoluene	11.366	91	87901	18.396	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	110338	18.791	ug/l	95
77) t-1,4-Dichloro-2-butene	11.018	75	10730	19.220	ug/l	97
78) 4-Chlorotoluene	11.457	91	102365	18.598	ug/l	92
79) tert-butylbenzene	11.713	119	104785	18.363	ug/l	94
80) 1,2,4-Trimethylbenzene	11.750	105	108054	18.821	ug/l	93
81) sec-Butylbenzene	11.890	105	128840	18.754	ug/l	96
82) p-Isopropyltoluene	12.012	119	110037	19.006	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	57923	18.710	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	58449	18.801	ug/l	98
85) n-Butylbenzene	12.335	91	90004	18.341	ug/l	95
86) Hexachloroethane	12.536	117	17674	18.595	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	57671	18.739	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9087	20.333	ug/l	# 80
89) 1,2,4-Trichlorobenzene	13.585	180	34827	18.426	ug/l	100
90) Hexachlorobutadiene	13.725	225	14471	19.023	ug/l	98
91) Naphthalene	13.774	128	122034	19.130	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	35551	18.702	ug/l	97

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

