

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072921\
 Data File : VX023501.D
 Acq On : 28 Jul 2021 19:43
 Operator : JC/MD
 Sample : M2940-08 5.0PPB LOQ
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Manual Integrations
 APPROVED

MMDadoda
 7/30/2021 6:17:31 PM

Quant Time: Jul 29 03:16:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072921W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 29 03:13:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	36344	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	201729	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	183671	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	83969	30.421	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 101.400%	
60) 4-Bromofluorobenzene	11.085	95	84407	28.436	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 94.800%	
63) Toluene-d8	8.653	98	251181	30.314	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.033%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	10597	4.989	ug/l	99
3) Chloromethane	1.294	50	12947	5.407	ug/l	93
4) Vinyl Chloride	1.374	62	11913	4.979	ug/l	97
5) Bromomethane	1.599	94	9276	6.395	ug/l	86
6) Chloroethane	1.685	64	8714m	5.844	ug/l	
7) Trichlorofluoromethane	1.886	101	19204	5.044	ug/l	98
8) Diethyl Ether	2.142	74	7150	5.204	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.325	101	10598	4.976	ug/l	99
10) 1,1-Dichloroethene	2.319	96	10806	5.253	ug/l	92
11) Methyl Iodide	2.453	142	11660	4.042	ug/l	90
12) Methyl Acetate	2.709	43	15651	5.044	ug/l	98
13) Acrolein	2.239	56	11360	31.712	ug/l	96
14) Acrylonitrile	3.075	53	35133	25.303	ug/l	97
15) Acetone	2.386	58	10056	25.541	ug/l	89
16) Carbon Disulfide	2.514	76	24026	4.873	ug/l	100
17) Allyl chloride	2.666	41	18204	4.827	ug/l	95
18) Methylene Chloride	2.794	84	14427	5.880	ug/l	91
19) trans-1,2-Dichloroethene	3.093	96	11511	5.219	ug/l	96
20) Diisopropyl ether	3.770	45	37790	4.966	ug/l	90
21) 1,1-Dichloroethane	3.611	63	20868	5.053	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	13038	5.000	ug/l	97
23) tert-Butyl Alcohol	2.983	59	17173	28.083	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	36832	5.029	ug/l	99
25) Chloroform	5.105	83	21351	4.996	ug/l	97
26) Cyclohexane	5.483	56	19231m	5.028	ug/l	
29) 1,1-Dichloropropene	5.696	75	15410	4.991	ug/l	97
30) 2-Butanone	4.574	43	50573	24.986	ug/l	99
31) 2,2-Dichloropropane	4.483	77	14509	4.341	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	17626	4.847	ug/l #	74
33) Carbon Tetrachloride	5.684	117	14401	4.567	ug/l	94
34) Benzene	6.050	78	47703	5.207	ug/l	95
35) Methacrylonitrile	4.928	41	10300	5.041	ug/l	92
36) 1,2-Dichloroethane	6.098	62	17690	5.099	ug/l	100
37) Trichloroethene	7.129	130	13047	5.248	ug/l	95
38) Methylcyclohexane	7.385	83	18775	4.809	ug/l	98
39) 1,2-Dichloropropane	7.440	63	12191	5.092	ug/l #	89
40) Dibromomethane	7.592	93	8309	5.014	ug/l	99
41) Bromodichloromethane	7.830	83	14219	4.734	ug/l	92
42) Vinyl Acetate	3.733	43	162013	24.415	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.733	43	19629	5.106	ug/l	# 87
44) Isopropyl Acetate	6.354	43	29346	4.823	ug/l	99
45) 1,4-Dioxane	7.665	88	6638	106.873	ug/l	96
46) Methyl methacrylate	7.702	41	14465	4.943	ug/l	97
47) n-amyl Acetate	10.848	43	23358	4.583	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	15254	4.348	ug/l	96
49) cis-1,3-Dichloropropene	8.372	75	16533	4.410	ug/l	93
50) 1,1,2-Trichloroethane	9.159	97	12734	5.230	ug/l	93
51) Ethyl methacrylate	9.122	69	18010	4.588	ug/l	99
52) 1,3-Dichloropropane	9.311	76	20613	5.099	ug/l	100
53) Dibromochloromethane	9.525	129	10179	4.304	ug/l	96
54) 1,2-Dibromoethane	9.616	107	12961	5.025	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	47033	24.198	ug/l	99
56) Bromoform	10.805	173	6734	4.029	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	99446	25.893	ug/l	99
59) 2-Hexanone	9.433	43	77060	25.958	ug/l	99
61) Tetrachloroethene	9.281	164	12653	5.280	ug/l	96
62) Toluene	8.726	91	52010	5.121	ug/l	99
64) Chlorobenzene	10.085	112	32805	5.186	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	11020	4.866	ug/l	99
66) Ethyl Benzene	10.195	91	55194	4.920	ug/l	99
67) m/p-Xylenes	10.305	106	43485	10.188	ug/l	95
68) o-Xylene	10.646	106	20689	4.877	ug/l	99
69) Styrene	10.659	104	32748	4.765	ug/l	98
70) Isopropylbenzene	10.963	105	55542	5.028	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	18496	5.221	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	16989m	5.156	ug/l	
73) Bromobenzene	11.201	156	14312	5.222	ug/l	96
74) n-propylbenzene	11.305	91	60554	4.748	ug/l	99
75) 2-Chlorotoluene	11.366	91	37722	4.936	ug/l	98
76) 1,3,5-Trimethylbenzene	11.457	105	44585	4.851	ug/l	100
77) t-1,4-Dichloro-2-butene	11.024	75	4296	3.747	ug/l	94
78) 4-Chlorotoluene	11.457	91	40874	4.764	ug/l	98
79) tert-butylbenzene	11.719	119	43559	4.870	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	46116	5.092	ug/l	96
81) sec-Butylbenzene	11.896	105	55223	4.831	ug/l	99
82) p-Isopropyltoluene	12.012	119	43823	4.644	ug/l	100
83) 1,3-Dichlorobenzene	11.975	146	23061	4.750	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	22389	4.640	ug/l	95
85) n-Butylbenzene	12.335	91	37323	4.473	ug/l	99
86) Hexachloroethane	12.542	117	6054	4.073	ug/l	98
87) 1,2-Dichlorobenzene	12.341	146	23686	5.069	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2873	3.766	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	12379	4.264	ug/l	99
90) Hexachlorobutadiene	13.725	225	6128	4.738	ug/l	96
91) Naphthalene	13.780	128	41853	4.146	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	12617	4.295	ug/l	99

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

