

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081523\
 Data File : VL040631.D
 Acq On : 15 Aug 2023 11:37
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Aug 16 04:47:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 16 2023
 QLast Update : Wed Aug 16 04:44:10 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/16/2023
 Supervised By : Mahesh Dadoda 08/16/2023

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

Internal Standards						
1) Bromochloromethane	5.192	49	1056177	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2884215	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2579190	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	2026150	9.878	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.722	85	244555	1.075	ppbv	93
3) Chlorodifluoromethane	2.668	51	185570	1.070	ppbv	98
4) Chloromethane	2.806	50	68070	1.006	ppbv	93
5) Vinyl Chloride	2.912	62	77295	1.076	ppbv	99
6) Bromomethane	3.111	94	37626	0.994	ppbv	97
7) Chloroethane	3.192	64	27216	1.039	ppbv #	81
8) Dichlorotetrafluoroethane	2.848	85	200673	1.090	ppbv	99
9) Propene	2.684	41	55523	1.033	ppbv	99
10) Heptane	7.587	43	122673	0.991	ppbv	95
11) Trichlorofluoromethane	3.558	101	193892	1.056	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.063	101	146011	1.083	ppbv	99
13) Ethanol	3.253	45	16952	1.315	ppbv	89
14) Bromoethene	3.362	108	57107	1.032	ppbv	96
15) Acetone	3.471	43	130011	1.006	ppbv	91
16) 1,3-Butadiene	2.976	39	64939	1.011	ppbv	97
17) tert-Butyl alcohol	3.883	59	142052	1.037	ppbv	99
18) 1,1-Dichloroethene	3.877	96	63414	1.027	ppbv	93
19) Isopropyl Alcohol	3.587	45	81791	0.999	ppbv #	94
20) Methylene Chloride	3.931	84	74971	1.188	ppbv	91
21) Allyl Chloride	3.996	41	86409	1.011	ppbv	92
22) trans-1,2-Dichloroethene	4.446	96	59254	0.977	ppbv	100
23) Vinyl Acetate	4.626	43	160590m	1.138	ppbv	
24) 1,1-Dichloroethane	4.561	63	136937	1.088	ppbv	99
25) Ethyl Acetate	5.211	43	259509	1.070	ppbv	99
26) Hexane	5.211	57	125194	1.066	ppbv	96
27) Carbon Disulfide	4.121	76	139737	1.000	ppbv #	92
28) Methyl tert-Butyl Ether	4.594	73	90838	1.001	ppbv	97
29) Chloroform	5.272	83	198336	1.067	ppbv	97
30) Cyclohexane	6.610	84	90872	1.056	ppbv	91
31) cis-1,2-Dichloroethene	5.079	61	106632	1.007	ppbv	85
32) 1,1,1-Trichloroethane	6.002	97	185675	1.041	ppbv	99
34) 2-Butanone	4.793	43	146133	1.005	ppbv	98
35) Carbon Tetrachloride	6.497	117	187474	1.037	ppbv	95
36) Benzene	6.375	78	222446	0.969	ppbv #	93
37) 1,2-Dichloroethane	5.806	62	139373	1.007	ppbv	100
38) Trichloroethene	7.298	130	90649m	1.016	ppbv	
39) 1,2-Dichloropropane	7.076	63	88683	1.016	ppbv	92
40) 1,4-Dioxane	7.317	88	29235m	0.892	ppbv	
41) Tetrahydrofuran	5.577	42	80759	0.987	ppbv	98
42) Bromodichloromethane	7.249	83	186687	0.969	ppbv	95
43) Methyl Methacrylate	7.487	69	83978	0.978	ppbv	98
44) 2,2,4-Trimethylpentane	7.330	57	370139	0.998	ppbv	97
45) t-1,3-Dichloropropene	8.719	75	58931m	0.870	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.147	75	76621m	0.918	ppbv	
47) 1,1,2-Trichloroethane	8.902	97	99820	1.012	ppbv	95
48) Dibromochloromethane	9.719	129	148392	0.961	ppbv	99
49) Bromoform	12.410	173	107778	0.874	ppbv	97
50) 4-Methyl-2-Pentanone	8.201	43	205184	0.964	ppbv	100
51) 2-Hexanone	9.568	43	138902m	0.931	ppbv	
52) Tetrachloroethene	10.626	164	76716m	1.068	ppbv	
53) Toluene	9.227	91	231251	0.948	ppbv	100
54) 1,2-Dibromoethane	10.015	107	127537	1.077	ppbv	91
56) 1,1,1,2-Tetrachloroethane	11.516	131	122129	1.023	ppbv #	1
57) Chlorobenzene	11.532	112	203131	1.020	ppbv #	91
58) Ethyl Benzene	12.098	91	301417	0.969	ppbv	93
59) m/p-Xylene	12.371	91	566816m	2.000	ppbv	
60) o-Xylene	13.066	91	269200	1.001	ppbv	100
61) Styrene	12.905	104	103846	0.882	ppbv	95
62) Isopropylbenzene	14.037	105	408161	1.003	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.056	83	215885	1.059	ppbv	99
64) n-propylbenzene	14.924	120	102424	0.996	ppbv	89
65) tert-Butylbenzene	16.098	119	357625	1.014	ppbv	96
66) Benzyl Chloride	16.339	91	41812m	0.950	ppbv	
67) sec-Butylbenzene	16.641	105	524813	1.020	ppbv	98
69) p-Isopropyltoluene	17.008	119	404994	1.006	ppbv	98
70) n-Butylbenzene	17.895	91	448062	1.019	ppbv	97
71) 2-Chlorotoluene	14.809	91	300354	0.995	ppbv	98
72) 4-Ethyltoluene	15.198	105	296109	0.975	ppbv	98
73) 1,3,5-Trimethylbenzene	15.358	105	266462	0.984	ppbv	94
74) 1,2,4-Trimethylbenzene	16.117	105	322400	1.017	ppbv	98
75) 1,3-Dichlorobenzene	16.339	146	176217	0.963	ppbv	94
76) 1,4-Dichlorobenzene	16.484	146	168916	0.924	ppbv	94
77) 1,2-Dichlorobenzene	17.153	146	181604	1.010	ppbv	98
78) Hexachloro-1,3-Butadiene	22.635	225	144956m	1.060	ppbv	
79) Naphthalene	21.397	128	214410m	1.011	ppbv	
80) Naphthalene,2-methyl-	24.390	142	43004m	0.759	ppbv	
81) 1,2,4-Trichlorobenzene	21.156	180	130905m	0.950	ppbv	

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

Manual Integrations

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