

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011623\
 Data File : VL040104.D
 Acq On : 17 Jan 2023 8:22
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/17/2023
 Supervised By : Mahesh Dadoda 01/17/2023

Quant Time: Jan 17 09:50:45 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Mon Jan 16 14:40:47 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1060812	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.661	114	2844836	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2905229m	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	2279347	9.440	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	1474651	7.928	ppbv	100
3) Chlorodifluoromethane	2.665	51	1285924	10.107	ppbv	99
4) Chloromethane	2.806	50	809544	10.294	ppbv	99
5) Vinyl Chloride	2.912	62	688836	10.332	ppbv	99
6) Bromomethane	3.115	94	250257	10.287	ppbv	97
7) Chloroethane	3.192	64	267041	10.479	ppbv	99
8) Dichlorotetrafluoroethane	2.851	85	1725146m	9.935	ppbv	
9) Propene	2.687	41	543250	10.276	ppbv	100
10) Heptane	7.590	43	1357593	11.143	ppbv	99
11) Trichlorofluoromethane	3.558	101	1864932	10.047	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.066	101	1391033	9.968	ppbv	98
13) Ethanol	3.243	45	40572m	8.338	ppbv	
14) Bromoethene	3.362	108	562715	10.862	ppbv	99
15) Acetone	3.462	43	1254495	9.861	ppbv	100
16) 1,3-Butadiene	2.980	39	633787	10.685	ppbv	99
17) tert-Butyl alcohol	3.874	59	1378175	11.633	ppbv	99
18) 1,1-Dichloroethene	3.880	96	606562	10.004	ppbv	96
19) Isopropyl Alcohol	3.571	45	691389	11.107	ppbv	99
20) Methylene Chloride	3.931	84	538237	9.589	ppbv	94
21) Allyl Chloride	3.996	41	894945	10.956	ppbv	98
22) trans-1,2-Dichloroethene	4.446	96	649677	10.487	ppbv	98
23) Vinyl Acetate	4.626	43	445194	10.795	ppbv #	98
24) 1,1-Dichloroethane	4.565	63	1300526	10.414	ppbv	99
25) Ethyl Acetate	5.208	43	2347839	10.475	ppbv	100
26) Hexane	5.214	57	993771	10.131	ppbv	99
27) Carbon Disulfide	4.124	76	1550025	12.198	ppbv	100
28) Methyl tert-Butyl Ether	4.587	73	1168955	10.593	ppbv	99
29) Chloroform	5.279	83	1750104	11.159	ppbv	98
30) Cyclohexane	6.610	84	875571	11.229	ppbv	99
31) cis-1,2-Dichloroethene	5.082	61	998983	10.520	ppbv	97
32) 1,1,1-Trichloroethane	6.008	97	1839825	11.542	ppbv	99
34) 2-Butanone	4.787	43	1407460	10.459	ppbv	100
35) Carbon Tetrachloride	6.500	117	1906488	11.852	ppbv	99
36) Benzene	6.378	78	2245432	10.666	ppbv	97
37) 1,2-Dichloroethane	5.812	62	1411117	10.428	ppbv	100
38) Trichloroethene	7.301	130	1330871	11.139	ppbv	98
39) 1,2-Dichloropropane	7.082	63	866927	10.528	ppbv	99
40) 1,4-Dioxane	7.301	88	325787	9.969	ppbv #	1
41) Tetrahydrofuran	5.562	42	857298	11.038	ppbv	99
42) Bromodichloromethane	7.259	83	1999781	10.944	ppbv	99
43) Methyl Methacrylate	7.484	69	903970	11.701	ppbv	99
44) 2,2,4-Trimethylpentane	7.336	57	3717180	10.617	ppbv	99
45) t-1,3-Dichloropropene	8.722	75	881573	12.797	ppbv	95

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.153	75	1199786	12.745	ppbv	100
47) 1,1,2-Trichloroethane	8.912	97	922352	10.639	ppbv	98
48) Dibromochloromethane	9.722	129	1616444	11.600	ppbv	100
49) Bromoform	12.426	173	1252674	11.670	ppbv	99
50) 4-Methyl-2-Pentanone	8.192	43	2340138	11.056	ppbv	100
51) 2-Hexanone	9.565	43	1834846	11.442	ppbv #	98
52) Tetrachloroethene	10.629	164	756590	10.986	ppbv	98
53) Toluene	9.233	91	2528258	11.260	ppbv	100
54) 1,2-Dibromoethane	10.024	107	1065531	11.739	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.526	131	1145084	10.127	ppbv	96
57) Chlorobenzene	11.542	112	1925530	9.723	ppbv	95
58) Ethyl Benzene	12.105	91	3428492	10.575	ppbv	99
59) m/p-Xylene	12.388	91	5883681m	20.184	ppbv	
60) o-Xylene	13.076	91	2807902	10.148	ppbv	99
61) Styrene	12.915	104	1599491	11.093	ppbv	100
62) Isopropylbenzene	14.047	105	3907250	9.817	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.066	83	903047	8.988	ppbv	99
64) n-propylbenzene	14.934	120	985001	9.956	ppbv	98
65) tert-Butylbenzene	16.108	119	3321730	9.749	ppbv	100
66) Benzyl Chloride	16.349	91	239918	10.303	ppbv #	97
67) sec-Butylbenzene	16.658	105	4677661	9.683	ppbv	100
69) p-Isopropyltoluene	17.014	119	3759761	9.905	ppbv	100
70) n-Butylbenzene	17.908	91	4046223	9.884	ppbv	100
71) 2-Chlorotoluene	14.818	91	3001319	9.805	ppbv	100
72) 4-Ethyltoluene	15.211	105	3122297	10.169	ppbv	99
73) 1,3,5-Trimethylbenzene	15.368	105	2753158	9.959	ppbv	98
74) 1,2,4-Trimethylbenzene	16.127	105	2983689	9.743	ppbv	97
75) 1,3-Dichlorobenzene	16.352	146	1638721	9.635	ppbv	99
76) 1,4-Dichlorobenzene	16.497	146	1591691	9.518	ppbv	99
77) 1,2-Dichlorobenzene	17.162	146	1528321	9.396	ppbv	99
78) Hexachloro-1,3-Butadiene	22.657	225	1121591	9.414	ppbv	99
79) Naphthalene	21.410	128	2463690	14.044	ppbv	99
80) Naphthalene,2-methyl-	24.397	142	695459	11.765	ppbv	100
81) 1,2,4-Trichlorobenzene	21.165	180	1245238	11.516	ppbv	97

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

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