

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122023\
 Data File : VL040920.D
 Acq On : 20 Dec 2023 14:57
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/21/2023
 Supervised By : Mahesh Dadoda 12/21/2023

Quant Time: Dec 21 07:12:07 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 21 07:06:17 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	1257131	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3090910	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2953027	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.748 95 2205081 10.138 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.735	85	3216688	13.434	ppbv	98
3) Chlorodifluoromethane	2.681	51	2527391	13.360	ppbv	99
4) Chloromethane	2.819	50	962589	13.800	ppbv	98
5) Vinyl Chloride	2.925	62	971936	14.973	ppbv	98
6) Bromomethane	3.121	94	425814	14.278	ppbv	95
7) Chloroethane	3.198	64	338075	14.083	ppbv	100
8) Dichlorotetrafluoroethane	2.861	85	2373243	13.755	ppbv	99
9) Propene	2.700	41	851435	13.640	ppbv	99
10) Heptane	7.561	43	2180034	14.050	ppbv	99
11) Trichlorofluoromethane	3.562	101	2588567	13.827	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.063	101	2177715	14.980	ppbv	100
13) Ethanol	3.240	45	199877	14.329	ppbv	97
14) Bromoethene	3.365	108	771816	14.485	ppbv	98
15) Acetone	3.465	43	1791041	11.879	ppbv	100
16) 1,3-Butadiene	2.989	39	946485	14.580	ppbv	98
17) tert-Butyl alcohol	3.873	59	1582628	14.190	ppbv	98
18) 1,1-Dichloroethene	3.877	96	875281	14.582	ppbv	98
19) Isopropyl Alcohol	3.571	45	1066632	13.381	ppbv	99
20) Methylene Chloride	3.928	84	783942	14.436	ppbv	94
21) Allyl Chloride	3.992	41	1353635	15.189	ppbv	96
22) trans-1,2-Dichloroethene	4.439	96	1046796	15.132	ppbv	97
23) Vinyl Acetate	4.616	43	2707628	15.890	ppbv	99
24) 1,1-Dichloroethane	4.555	63	2165882	14.557	ppbv	100
25) Ethyl Acetate	5.192	43	3690814	14.128	ppbv	100
26) Hexane	5.201	57	1592560	13.657	ppbv	99
27) Carbon Disulfide	4.118	76	2567509	16.385	ppbv	98
28) Methyl tert-Butyl Ether	4.574	73	1551349	14.439	ppbv	99
29) Chloroform	5.266	83	2723588	13.939	ppbv	98
30) Cyclohexane	6.587	84	1343772	13.921	ppbv	99
31) cis-1,2-Dichloroethene	5.066	61	1712273	14.397	ppbv	99
32) 1,1,1-Trichloroethane	5.989	97	2740470	14.720	ppbv	100
34) 2-Butanone	4.774	43	2395519	14.651	ppbv	100
35) Carbon Tetrachloride	6.478	117	2931280	15.084	ppbv	99
36) Benzene	6.356	78	3373664	13.962	ppbv	98
37) 1,2-Dichloroethane	5.793	62	2129563	14.709	ppbv	100
38) Trichloroethene	7.272	130	1318454	14.187	ppbv	98
39) 1,2-Dichloropropane	7.053	63	1353412	14.214	ppbv	97
40) 1,4-Dioxane	7.262	88	552232	14.017	ppbv #	1
41) Tetrahydrofuran	5.539	42	1434145	14.452	ppbv	98
42) Bromodichloromethane	7.234	83	3066154	14.684	ppbv	98
43) Methyl Methacrylate	7.455	69	1457151	15.466	ppbv	100
44) 2,2,4-Trimethylpentane	7.311	57	5601380	13.647	ppbv	99
45) t-1,3-Dichloropropene	8.690	75	1249112	17.880	ppbv	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.121	75	1394635	16.029	ppbv	98
47) 1,1,2-Trichloroethane	8.877	97	1453980	14.271	ppbv	99
48) Dibromochloromethane	9.690	129	2602201	15.125	ppbv	100
49) Bromoform	12.381	173	2120241	15.926	ppbv	100
50) 4-Methyl-2-Pentanone	8.156	43	3648768	14.700	ppbv	100
51) 2-Hexanone	9.526	43	2728642	15.282	ppbv #	99
52) Tetrachloroethene	10.594	164	1202224	14.755	ppbv	98
53) Toluene	9.198	91	3889456	14.407	ppbv	99
54) 1,2-Dibromoethane	9.983	107	2163453	15.552	ppbv	95
56) 1,1,1,2-Tetrachloroethane	11.484	131	1836654	14.223	ppbv	94
57) Chlorobenzene	11.503	112	3021313	13.863	ppbv	99
58) Ethyl Benzene	12.063	91	5319872	14.020	ppbv	98
59) m/p-Xylene	12.346	91	8905800m	27.601	ppbv	
60) o-Xylene	13.034	91	4260339	14.015	ppbv	99
61) Styrene	12.873	104	2296612	15.838	ppbv	100
62) Isopropylbenzene	14.005	105	6199563	13.753	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.021	83	3103389	14.217	ppbv	99
64) n-propylbenzene	14.889	120	1635123	14.373	ppbv	97
65) tert-Butylbenzene	16.063	119	5442169	13.980	ppbv	100
66) Benzyl Chloride	16.297	91	536018	20.317	ppbv	98
67) sec-Butylbenzene	16.609	105	7593962	13.637	ppbv	99
69) p-Isopropyltoluene	16.966	119	6220758	14.388	ppbv	99
70) n-Butylbenzene	17.860	91	6567980	14.619	ppbv	99
71) 2-Chlorotoluene	14.770	91	4870716	14.034	ppbv	100
72) 4-Ethyltoluene	15.166	105	4945406	14.823	ppbv	99
73) 1,3,5-Trimethylbenzene	15.323	105	4266586	14.817	ppbv	99
74) 1,2,4-Trimethylbenzene	16.082	105	4653000	14.520	ppbv	99
75) 1,3-Dichlorobenzene	16.304	146	2697078	14.685	ppbv	100
76) 1,4-Dichlorobenzene	16.449	146	2636120	14.699	ppbv	100
77) 1,2-Dichlorobenzene	17.117	146	2569528	14.504	ppbv	100
78) Hexachloro-1,3-Butadiene	22.603	225	1392969	12.673	ppbv	99
79) Naphthalene	21.355	128	3060954	20.423	ppbv	99
80) Naphthalene,2-methyl-	24.355	142	533181m	20.350	ppbv	
81) 1,2,4-Trichlorobenzene	21.111	180	1543743	17.186	ppbv	99

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

