

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040771.D
 Acq On : 12 Oct 2023 1:11
 Operator : SY/MD
 Sample : 04699-13 LOD 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2023

Quant Time: Oct 13 01:21:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/13/2023
 Supervised By : Mahesh Dadoda 10/16/2023

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

Internal Standards						
1) Bromochloromethane	5.211	49	951764	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2717765	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2494680	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1871504	10.195	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.761	85	17052	0.102	ppbv	90
3) Chlorodifluoromethane	2.709	51	13751	0.098	ppbv #	88
4) Chloromethane	2.848	50	5900	0.107	ppbv #	73
5) Vinyl Chloride	2.947	62	5078m	0.089	ppbv	
6) Bromomethane	3.153	94	2443	0.103	ppbv #	44
7) Chloroethane	3.230	64	1669m	0.090	ppbv	
8) Dichlorotetrafluoroethane	2.890	85	12607	0.099	ppbv	84
9) Propene	2.722	41	8082m	0.156	ppbv	
10) Heptane	7.587	43	13407m	0.103	ppbv	
11) Trichlorofluoromethane	3.590	101	12170	0.094	ppbv	89
12) 1,1,2-Trichlorotrifluo...	4.095	101	8654m	0.094	ppbv	
13) Ethanol	3.291	45	1845m	0.157	ppbv	
14) Bromoethene	3.404	108	4394m	0.111	ppbv	
15) Acetone	3.523	43	15852m	0.161	ppbv	
16) 1,3-Butadiene	3.015	39	5645m	0.109	ppbv	
17) tert-Butyl alcohol	3.938	59	9585m	0.095	ppbv	
18) 1,1-Dichloroethene	3.912	96	5005m	0.121	ppbv	
19) Isopropyl Alcohol	3.632	45	9666m	0.153	ppbv	
20) Methylene Chloride	3.957	84	11521	0.281	ppbv #	88
21) Allyl Chloride	4.028	41	6064	0.093	ppbv #	74
22) trans-1,2-Dichloroethene	4.471	96	4216m	0.096	ppbv	
23) Vinyl Acetate	4.668	43	11596m	0.092	ppbv	
24) 1,1-Dichloroethane	4.581	63	7544m	0.080	ppbv	
25) Ethyl Acetate	5.240	43	21459m	0.100	ppbv	
26) Hexane	5.234	57	15421m	0.157	ppbv	
27) Carbon Disulfide	4.150	76	9027	0.083	ppbv #	61
28) Methyl tert-Butyl Ether	4.623	73	7382	0.096	ppbv	92
29) Chloroform	5.291	83	14157	0.099	ppbv	97
30) Cyclohexane	6.623	84	7605m	0.091	ppbv	
31) cis-1,2-Dichloroethene	5.095	61	7977	0.088	ppbv #	84
32) 1,1,1-Trichloroethane	6.015	97	12840m	0.085	ppbv	
34) 2-Butanone	4.835	43	14242m	0.116	ppbv	
35) Carbon Tetrachloride	6.510	117	12304m	0.081	ppbv	
36) Benzene	6.385	78	18980	0.091	ppbv #	89
37) 1,2-Dichloroethane	5.825	62	9995m	0.093	ppbv	
38) Trichloroethene	7.301	130	8893m	0.096	ppbv	
39) 1,2-Dichloropropane	7.092	63	10130m	0.124	ppbv	
40) 1,4-Dioxane	7.352	88	3987m	0.129	ppbv	
41) Tetrahydrofuran	5.610	42	7890m	0.093	ppbv	
42) Bromodichloromethane	7.256	83	12977m	0.081	ppbv	
43) Methyl Methacrylate	7.491	69	7471m	0.089	ppbv	
44) 2,2,4-Trimethylpentane	7.336	57	31856	0.090	ppbv	95
45) t-1,3-Dichloropropene	8.725	75	3694m	0.055	ppbv	

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

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

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.150	75	5373m	0.066	ppbv	
47) 1,1,2-Trichloroethane	8.909	97	7684m	0.090	ppbv	
48) Dibromochloromethane	9.716	129	10535m	0.073	ppbv	
49) Bromoform	12.410	173	6673m	0.057	ppbv	
50) 4-Methyl-2-Pentanone	8.227	43	17771m	0.084	ppbv	
51) 2-Hexanone	9.597	43	12310m	0.077	ppbv	
52) Tetrachloroethene	10.619	164	7827m	0.092	ppbv	
53) Toluene	9.230	91	25321m	0.102	ppbv	
54) 1,2-Dibromoethane	10.018	107	9397m	0.078	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.519	131	8005m	0.079	ppbv	
57) Chlorobenzene	11.539	112	18411m	0.103	ppbv	
58) Ethyl Benzene	12.092	91	29063m	0.093	ppbv	
59) m/p-Xylene	12.378	91	46545m	0.180	ppbv	
60) o-Xylene	13.060	91	22729m	0.092	ppbv	
61) Styrene	12.902	104	10287m	0.075	ppbv	
62) Isopropylbenzene	14.037	105	34206m	0.090	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.060	83	15508m	0.084	ppbv	
64) n-propylbenzene	14.915	120	9973m	0.098	ppbv	
65) tert-Butylbenzene	16.092	119	32825m	0.096	ppbv	
66) Benzyl Chloride	16.355	91	1239m	0.036	ppbv	
67) sec-Butylbenzene	16.648	105	45206m	0.097	ppbv	
69) p-Isopropyltoluene	17.005	119	32511m	0.083	ppbv	
70) n-Butylbenzene	17.899	91	32098m	0.083	ppbv	
71) 2-Chlorotoluene	14.805	91	26773m	0.094	ppbv	
72) 4-Ethyltoluene	15.198	105	24744m	0.086	ppbv	
73) 1,3,5-Trimethylbenzene	15.362	105	22550m	0.089	ppbv	
74) 1,2,4-Trimethylbenzene	16.111	105	23927m	0.086	ppbv	
75) 1,3-Dichlorobenzene	16.336	146	15400m	0.089	ppbv	
76) 1,4-Dichlorobenzene	16.484	146	13853m	0.081	ppbv	
77) 1,2-Dichlorobenzene	17.153	146	16641m	0.098	ppbv	
78) Hexachloro-1,3-Butadiene	22.641	225	13157m	0.109	ppbv	
79) Naphthalene	21.410	128	9665m	0.043	ppbv	
81) 1,2,4-Trichlorobenzene	21.146	180	6390m	0.052	ppbv	

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

