

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122023\
 Data File : VL040917.D
 Acq On : 20 Dec 2023 13:02
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Dec 21 07:09:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023
 QLast Update : Thu Dec 21 07:06:17 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	5.182	49	1243671	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	3115772	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2747752	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.748	95	2024558	10.003	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.735	85	129775	0.548	ppbv	96
3) Chlorodifluoromethane	2.681	51	102757	0.549	ppbv	99
4) Chloromethane	2.816	50	37032	0.537	ppbv #	87
5) Vinyl Chloride	2.922	62	34252	0.533	ppbv #	88
6) Bromomethane	3.118	94	16238m	0.550	ppbv	
7) Chloroethane	3.195	64	12865	0.542	ppbv	89
8) Dichlorotetrafluoroethane	2.861	85	91730	0.537	ppbv	99
9) Propene	2.700	41	31685	0.513	ppbv	93
10) Heptane	7.561	43	76929	0.501	ppbv	97
11) Trichlorofluoromethane	3.558	101	96882	0.523	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.060	101	72429	0.504	ppbv	94
13) Ethanol	3.256	45	9490	0.688	ppbv	80
14) Bromoethene	3.365	108	26200	0.497	ppbv #	89
15) Acetone	3.481	43	85375	0.572	ppbv	95
16) 1,3-Butadiene	2.989	39	29565	0.460	ppbv	86
17) tert-Butyl alcohol	3.893	59	58903	0.534	ppbv	99
18) 1,1-Dichloroethene	3.870	96	31386	0.529	ppbv #	80
19) Isopropyl Alcohol	3.594	45	40739	0.517	ppbv #	95
20) Methylene Chloride	3.931	84	29582	0.551	ppbv	85
21) Allyl Chloride	3.992	41	42042	0.477	ppbv	91
22) trans-1,2-Dichloroethene	4.439	96	27904	0.408	ppbv	90
23) Vinyl Acetate	4.626	43	67632	0.401	ppbv #	93
24) 1,1-Dichloroethane	4.555	63	65821	0.447	ppbv	99
25) Ethyl Acetate	5.201	43	130378	0.504	ppbv	99
26) Hexane	5.201	57	58338	0.506	ppbv	94
27) Carbon Disulfide	4.118	76	69361	0.447	ppbv #	76
28) Methyl tert-Butyl Ether	4.587	73	47897	0.451	ppbv	93
29) Chloroform	5.262	83	99460	0.515	ppbv	98
30) Cyclohexane	6.587	84	46565	0.488	ppbv	90
31) cis-1,2-Dichloroethene	5.066	61	57572	0.489	ppbv	92
32) 1,1,1-Trichloroethane	5.986	97	96530	0.524	ppbv	97
34) 2-Butanone	4.790	43	78855	0.478	ppbv	95
35) Carbon Tetrachloride	6.475	117	97100	0.496	ppbv	89
36) Benzene	6.352	78	122609	0.503	ppbv	98
37) 1,2-Dichloroethane	5.790	62	74575	0.511	ppbv	100
38) Trichloroethene	7.272	130	46084	0.492	ppbv	95
39) 1,2-Dichloropropane	7.053	63	52159m	0.543	ppbv	
40) 1,4-Dioxane	7.304	88	22934m	0.577	ppbv	
41) Tetrahydrofuran	5.568	42	51606m	0.516	ppbv	
42) Bromodichloromethane	7.230	83	104690	0.497	ppbv #	95
43) Methyl Methacrylate	7.465	69	45098m	0.475	ppbv	
44) 2,2,4-Trimethylpentane	7.304	57	212805	0.514	ppbv	98
45) t-1,3-Dichloropropene	8.690	75	28839m	0.410	ppbv	

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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)
46) cis-1,3-Dichloropropene	8.118	75	38327m	0.437	ppbv	
47) 1,1,2-Trichloroethane	8.873	97	51499	0.501	ppbv	95
48) Dibromochloromethane	9.677	129	82110m	0.473	ppbv	
49) Bromoform	12.375	173	58240m	0.434	ppbv	
50) 4-Methyl-2-Pentanone	8.182	43	125468m	0.501	ppbv	
51) 2-Hexanone	9.548	43	79851m	0.444	ppbv	
52) Tetrachloroethene	10.593	164	44589m	0.543	ppbv	
53) Toluene	9.198	91	126163	0.464	ppbv	95
54) 1,2-Dibromoethane	9.989	107	68765m	0.490	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.481	131	61690	0.513	ppbv #	1
57) Chlorobenzene	11.497	112	104892	0.517	ppbv #	92
58) Ethyl Benzene	12.063	91	175688m	0.498	ppbv	
59) m/p-Xylene	12.336	91	310590m	1.035	ppbv	
60) o-Xylene	13.037	91	140792	0.498	ppbv	96
61) Styrene	12.870	104	57515m	0.426	ppbv	
62) Isopropylbenzene	14.005	105	217085	0.518	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.021	83	109503	0.539	ppbv	94
64) n-propylbenzene	14.892	120	52233m	0.493	ppbv	
65) tert-Butylbenzene	16.066	119	167377	0.462	ppbv	88
66) Benzyl Chloride	16.317	91	9664m	0.394	ppbv	
67) sec-Butylbenzene	16.609	105	265337	0.512	ppbv	99
69) p-Isopropyltoluene	16.969	119	192278	0.478	ppbv	96
70) n-Butylbenzene	17.866	91	204568m	0.489	ppbv	
71) 2-Chlorotoluene	14.773	91	163378	0.506	ppbv	100
72) 4-Ethyltoluene	15.166	105	150697	0.485	ppbv	97
73) 1,3,5-Trimethylbenzene	15.323	105	127779	0.477	ppbv	91
74) 1,2,4-Trimethylbenzene	16.076	105	149042	0.500	ppbv #	82
75) 1,3-Dichlorobenzene	16.304	146	86161m	0.504	ppbv	
76) 1,4-Dichlorobenzene	16.442	146	80607	0.483	ppbv	97
77) 1,2-Dichlorobenzene	17.121	146	79864	0.484	ppbv	96
78) Hexachloro-1,3-Butadiene	22.603	225	54929m	0.537	ppbv	
79) Naphthalene	21.368	128	61471m	0.441	ppbv	
80) Naphthalene,2-methyl-	24.387	142	7997m	0.328	ppbv	
81) 1,2,4-Trichlorobenzene	21.114	180	32927m	0.394	ppbv	

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

