

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111323\
 Data File : VL040834.D
 Acq On : 13 Nov 2023 10:06
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Nov 13 15:20:52 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

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

QLast Update : Mon Nov 13 15:18:50 2023

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 11/15/2023
 Supervised By : Semsettin Yesilyurt 11/15/2023

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

Internal Standards						
1) Bromochloromethane	5.169	49	993904	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.626	114	3010529	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.433	117	2704979	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.744 95 2147399 10.666 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.713	85	127734	0.721	ppbv	94
3) Chlorodifluoromethane	2.661	51	103501	0.707	ppbv	98
4) Chloromethane	2.796	50	36009	0.629	ppbv	97
5) Vinyl Chloride	2.906	62	35665	0.603	ppbv	97
6) Bromomethane	3.102	94	11712	0.492	ppbv #	79
7) Chloroethane	3.179	64	12695	0.662	ppbv #	84
8) Dichlorotetrafluoroethane	2.838	85	92126	0.692	ppbv	99
9) Propene	2.677	41	33081	0.619	ppbv	96
10) Heptane	7.555	43	78117	0.579	ppbv	99
11) Trichlorofluoromethane	3.542	101	96524	0.705	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.044	101	70202	0.720	ppbv	95
13) Ethanol	3.237	45	7141m	0.606	ppbv	
14) Bromoethene	3.346	108	26307	0.637	ppbv #	86
15) Acetone	3.465	43	65472	0.641	ppbv #	89
16) 1,3-Butadiene	2.970	39	29098	0.547	ppbv #	79
17) tert-Butyl alcohol	3.877	59	59368	0.602	ppbv #	93
18) 1,1-Dichloroethene	3.857	96	28884	0.663	ppbv	89
19) Isopropyl Alcohol	3.571	45	50194m	0.782	ppbv	
20) Methylene Chloride	3.912	84	27877	0.651	ppbv #	90
21) Allyl Chloride	3.970	41	37940	0.570	ppbv #	84
22) trans-1,2-Dichloroethene	4.423	96	29121	0.618	ppbv	90
23) Vinyl Acetate	4.613	43	64567	0.484	ppbv #	96
24) 1,1-Dichloroethane	4.542	63	63821	0.618	ppbv	97
25) Ethyl Acetate	5.189	43	113789	0.510	ppbv #	97
26) Hexane	5.185	57	54093	0.532	ppbv	96
27) Carbon Disulfide	4.105	76	70220	0.616	ppbv	95
28) Methyl tert-Butyl Ether	4.571	73	44971m	0.551	ppbv	
29) Chloroform	5.246	83	94082	0.624	ppbv	100
30) Cyclohexane	6.574	84	49184m	0.570	ppbv	
31) cis-1,2-Dichloroethene	5.057	61	48176	0.506	ppbv	95
32) 1,1,1-Trichloroethane	5.973	97	93583	0.589	ppbv	97
34) 2-Butanone	4.780	43	67632	0.471	ppbv	96
35) Carbon Tetrachloride	6.462	117	90811	0.529	ppbv	95
36) Benzene	6.343	78	121022	0.523	ppbv	98
37) 1,2-Dichloroethane	5.783	62	75568	0.619	ppbv	100
38) Trichloroethene	7.262	130	46158	0.452	ppbv	97
39) 1,2-Dichloropropane	7.044	63	50801	0.561	ppbv #	90
40) 1,4-Dioxane	7.291	88	19434m	0.573	ppbv	
41) Tetrahydrofuran	5.558	42	51358m	0.548	ppbv	
42) Bromodichloromethane	7.221	83	98256	0.540	ppbv #	97
43) Methyl Methacrylate	7.459	69	42808	0.463	ppbv	99
44) 2,2,4-Trimethylpentane	7.298	57	205425	0.525	ppbv	97
45) t-1,3-Dichloropropene	8.687	75	21227m	0.306	ppbv	

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

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

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.114	75	28118	0.326	ppbv #	83
47) 1,1,2-Trichloroethane	8.867	97	52082m	0.546	ppbv	
48) Dibromochloromethane	9.674	129	74183m	0.462	ppbv	
49) Bromoform	12.384	173	53406m	0.418	ppbv	
50) 4-Methyl-2-Pentanone	8.169	43	115537	0.495	ppbv	99
51) 2-Hexanone	9.558	43	77922m	0.442	ppbv	
52) Tetrachloroethene	10.581	164	42460m	0.457	ppbv	
53) Toluene	9.188	91	134164m	0.489	ppbv	
54) 1,2-Dibromoethane	9.979	107	62221	0.470	ppbv	83
56) 1,1,1,2-Tetrachloroethane	11.478	131	60495m	0.543	ppbv	
57) Chlorobenzene	11.497	112	106305	0.546	ppbv	92
58) Ethyl Benzene	12.060	91	174736	0.509	ppbv	97
59) m/p-Xylene	12.343	91	300001m	1.057	ppbv	
60) o-Xylene	13.027	91	143819	0.533	ppbv	96
61) Styrene	12.873	104	59958m	0.409	ppbv	
62) Isopropylbenzene	13.998	105	217316	0.526	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.021	83	115992m	0.573	ppbv	
64) n-propylbenzene	14.879	120	55577m	0.507	ppbv	
65) tert-Butylbenzene	16.063	119	177684	0.479	ppbv	90
66) Benzyl Chloride	16.297	91	5466m	0.175	ppbv	
67) sec-Butylbenzene	16.612	105	266918	0.525	ppbv	99
69) p-Isopropyltoluene	16.966	119	200041	0.473	ppbv	97
70) n-Butylbenzene	17.863	91	216088m	0.515	ppbv	
71) 2-Chlorotoluene	14.770	91	164965	0.530	ppbv	98
72) 4-Ethyltoluene	15.166	105	148139	0.474	ppbv	97
73) 1,3,5-Trimethylbenzene	15.326	105	133744	0.486	ppbv	97
74) 1,2,4-Trimethylbenzene	16.079	105	160507m	0.531	ppbv	
75) 1,3-Dichlorobenzene	16.297	146	85196m	0.463	ppbv	
76) 1,4-Dichlorobenzene	16.445	146	87430m	0.480	ppbv	
77) 1,2-Dichlorobenzene	17.114	146	90459m	0.503	ppbv	
78) Hexachloro-1,3-Butadiene	22.593	225	55767m	0.439	ppbv	
79) Naphthalene	21.365	128	59287m	0.255	ppbv	
81) 1,2,4-Trichlorobenzene	21.120	180	44397m	0.352	ppbv	

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

